New Premium Digital Congress System

HCS-4890N Series

HCS-4857 Series

HCS-4838 Series

HCS-4813 Series

202411

HCS-4800 Series New Premium Digital Congress System

HCS-4800 Series New Premium Digital Congress System

Overview

By using TAIDEN MCA-STREAM 2.0 (Multi_Channel_ Audio STREAM) digital processing and transmitting technologies, TAIDEN HCS-4800 Series New Premium Digital Congress System revolutionizes conference systems technology by incorporating the latest fully digital technologies, audio technologies and network techniques. Furthermore, with integration of TAIDEN Conference Sign-in System and Central Control System, HCS-4800 providing comprehensive and efficient digital conference system solutions.

"Closed Loop - Daisy Chain" connection technology, to connect all congress units and simplifying installation, as well as dual connection backup have been opted for.

By supporting 48 kHz audio sampling rate, all 64 channels feature a 20 Hz to 20 kHz frequency response.

● MCA-STREAM 2.0 multi-channel audio digital transmitting technology

TAIDEN proprietary MCA-STREAM 2.0 technology is the essential data transmission technology in the HCS-4800 system, e.g. transmitting up to 64 CHs high quality digital, control and other information data over a single dedicated 100 Mbps high speed 8-pin cable or cat5e cable with a drain wire. Every unit - congress main unit, congress unit, language distribution unit, interpreter unit - is equipped with a high performance CPU as the kernel of the advanced technology infrastructure.

By virtue of using the MCA-STREAM 2.0 technology, HCS-4800 Series New Premium Digital Congress System carries out:

♦ Ease of system cabling and enhancement of system reliability by utilizing a single dedicated 8-pin cable or cat5e cable with a drain wire to transmit up to 64 CHs floor and interpretation language signals, avoiding the necessity to use complicated multi-core cables.

♦ Prevention of noise caused by the ground wire in stereo projects as well of interference brought by other equipment (such as stage lights, recording apparatus, etc.). SNR reaches 100 dB and isolation is better than 85 dB. The frequency response verges on 20 Hz to 20 kHz; making the system sound approaching CD quality.

♦ Provision of Hi-Fi sound quality, even in long range transmission, which makes the system widely suitable for various applications such as mini/medium type meeting rooms, large venues, stadiums, etc.

● HCS-4800 system hardware structure

HCS-4800 system hardware is an embedded structure based on dual high performance CPU. Even in stand-alone mode, HCS-4800 is competent for the management of various meetings via several basic conference management facilities, such as basic microphone

management, electronic voting, multilingual simultaneous interpretation, etc.
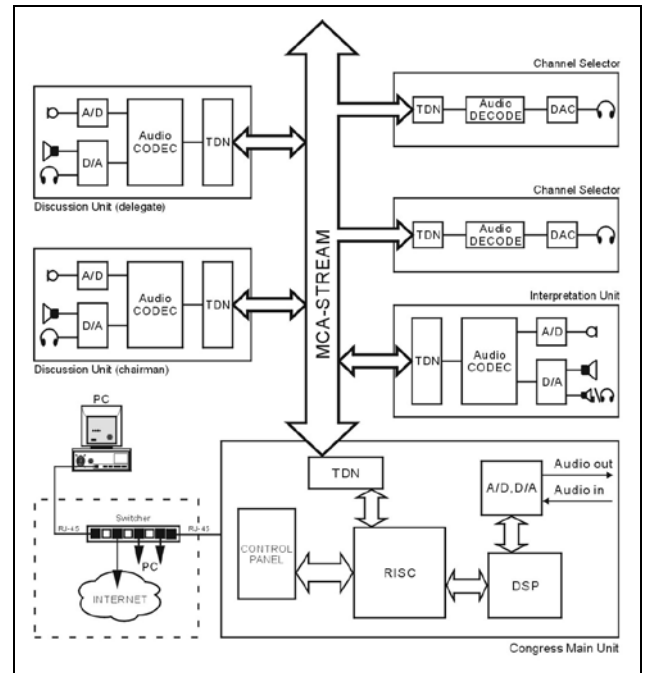
In the figure above:

Audio CODEC: Dedicated audio coding and decoding chip of discussion unit and interpreter unit

TDN: Dedicated digital communication chip for TAIDEN digital congress system networking

DAC: Digital-to-analog conversion chip

RISC: Central processing chipset of congress main unit, controlling the DSP and AD/DA conversion IC to provide 2-channel audio line in/out and record in/out facilities

Based on advanced hardware, HCS-4800 system features high security software, easy to operate, convenient to maintain and to upgrade. The meeting is fully controlled and monitored by the operator.

● Modular system structure

Any kind of configuration can be set up just by daisy-chaining HCS-4800 congress units. The modular system structure of HCS-4800 is applicable to any kind of conference and provides an accurate and efficient solution. Additional congress units can be added when needed. More system functions are available in connection with a PC and control software.

MCA-STREAM Data Stream Format
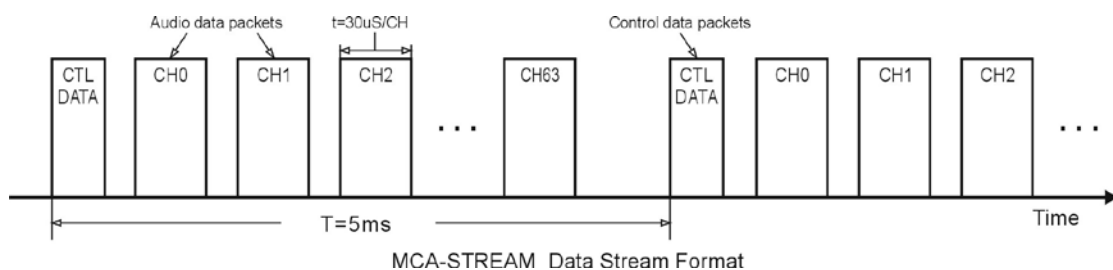
● **Dual Congress main unit Hot Spare Module**

HCS-4800 dual main unit hot spare is a disaster protective structure. Besides the main unit, the user can set another CMU as backup CMU and connect it to the system. If the main unit breaks down during the conference, the backup main unit substitutes the main unit and the system software will connect to backup CMU automatically, ensuring the consistency of the conference.

● **HCS-4800 system software infrastructure**

HCS-4800 system software is designed for the prevalent Client/Server structure. Client and server communicate with each other by using TCP/IP network protocol, ensuring both data security and transmission efficiency. Client and server software can run on the same computer as well as on different computers in the same LAN, enabling the operator to manage the conference more flexibly. HCS-4800 system software imports the hot-spare dual server structure by using a main server and a back-up server. While the main server is processing, data are stored real time on the back-up server to prevent conference related information from loss in case of a crash of the main server. As a result, security and reliability of the conference system are improved vitally.

● **Duplicate and backup connection via "Closed Loop - Daisy Chain" connection**

For important meetings, especially those which consider connection reliability as their leading point, HCS-4800 Series New Premium Digital Congress System adopts advanced "Closed Loop - Daisy Chain" connection topology, connecting the last unit in the loop back to the congress main unit. Therefore, any congress unit in the loop has two connection paths to the congress main unit. As a result, breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units. As such the system features the advantages of a daisy-chain connection system with its simplicity of cabling as well as the improvement of the system reliability through duplicate and backup connection functions.

● **Advanced TCP/IP communication protocol in PC control**

In a PC controlled system, the congress main unit and the PC use the advanced TCP/IP protocol. Theoretically, the communication distance between the PC and the CMU can be infinite. This is decisively different to traditional RS232 connection modes where the distance between the PC and the CMU cannot exceed 15 meters. TCP/IP enables remote control and remote update.

By using network techniques, conference systems are tightly linked to the rapidly developing internet technology, computer science and communication technology. Users enjoy the convenience of the contemporary leading techniques, e.g. by using the compatible wireless LAN techniques (802.11) - such as PDAs - which can be used to control a conference system wirelessly. The import of network topology also makes the conference system merge with intelligent building networks.

● **CMU and EMU**

The congress main unit forms the core of the entire congress system. It provides power supply to all contribution units and serves as key component to link system hardware to application software. One CMU has two (8P-DIN) trunk-line cable outlets. If more congress units are needed, additional extension main units

HCS-8600MEA or HCS-8300MEA2 are required, each EMU has five (8P-DIN) trunk-line cable outlets. HCS-4800 system maximum capacity: 378 interpreter units (63 interpreter booths, 6 interpreter units in each), 4096 discussion/voting units and any number of channel selectors.

In stand-alone mode without a PC, the CMU carries out basic management facilities, simultaneous interpretation, electric voting and 64 CHs digital audio transmission. By operating HCS-4800 application software in PC-controlled mode, more comprehensive management facilities can be implemented.

● **Contribution units**

Contribution units are units used by participants to contribute to a conference and include: discussion unit (chairman/delegate), voting unit, interpreter unit, channel selector, etc. The basic contribution unit has discussion, voting or channel select facility. The upgraded units combine discussion, voting and channel select, furthermore built-in loudspeaker, IC-Card reader and graphic 256x32/256x64 LCD with back-lighting, forming a wide variety of product series. The chairman unit has microphone priority facility with a priority button to switch off or to mute speaking units. If required, different functions can be allocated to delegate stations, including listening, discussion, request to speak, voting, IC-Card sign-in, short message, information display, etc.

Depending on the option, congress units can be divided into tabletop, flush-mounted and component. Each style consists of various products, which significantly enriches users' choices.

Low power consumption design is adopted in HCS-8600 and HCS-4800 series congress units, convenient for wiring and installation.

All congress units of HCS-8600 and HCS-4800 series (except HCS-8368/8668/8638/8665 series) are supplied by the main unit's 8P-DIN interface. Since the power capacity of the 8P-DIN interface is limited, it must be ensured during installation that the added up values of a) the total power consumption of all congress units connected in each path and b) the power loss in extension cables do in no case exceed the maximum possible value delivered by each 8P-DIN interface. Otherwise the system will not work properly or automatic protection will be triggered.

● **Application software**

HCS-4800 application software is comprehensive, reliable and user-friendly. It is also an easy-care software system which helps the operator to manage the conference efficiently from the very beginning of a meeting until the post-meeting work. Once the PC installed and the HCS-4800 application software integrated into the HCS-4800 system, the operator manages all aspects of the conference centrally. The operation turns out to be easy and efficient.

HCS-4800 software applications have various parts: System Setup Management Software, Microphone Management Software, Voting Management Software, Simultaneous Interpretation Software, Intercom Software, Synchronous Audio Recording Management Software, Multi-User Conference Control Management Software, Dual PC Server Hot Spare Software, Agenda Control Software, Dual System Main Unit Hot Spare Software, etc.

● **Installation and transportation**

Easy installation is another important feature of HCS-4800 system. HCS-4800 digital congress units have a 1.5-meter 8P-DIN cable (with male connector) and a 0.6-meter 8P-DIN cable (with female connector) or have two RJ45 sockets (cat5e cable with a drain wire & RJ45 plug with metal shield for connection). All congress units are connected together in a daisy chain configuration and connected to the main unit by the dedicated extension cable.

Functions

Discussion

- ✧ "Active microphones" (1~8), sets the number of delegates permitted to speak at the same time, and sets speaking time limit function
- ✧ Five discussion modes:
  - ➢ "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
  - ➢ "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
  - ➢ "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
  - ➢ "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
  - ➢ "PTT" mode, press microphone On/Off button to talk
- ✧ VIP unit configurable:
  - ➢ By using HCS-4800 application software, delegate units can be set as VIP units
  - ➢ VIP unit can be activated in any mode freely, as long as the total number of active microphones does not exceeded 8 (including chairman / delegate / VIP)
- ✧ Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- ✧ Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed

64 CHs simultaneous interpretation

- ✧ Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- ✧ HCS-4800 system can accommodate 378 simultaneous interpreter units (63 interpreter booths, 6 interpreter units in each), and provide 64 CHs (including floor language) simultaneous interpretation
- ✧ The interpreter unit is equipped with an uni-directional electret condenser microphone. Gain and EQ (5 band) of each microphone adjustable separately for different acoustic features to get perfect sound performance for different orators. It features also 5 pre-defined input channels and 3 output interpretation channels and their corresponding short keys, high lightness 256×64 graphic LCD with back-lighting, built-in IC-Card reader and audio record and playback function
- ✧ Delegates use channel select to listen to different languages. In cooperation with channel selectors and/or infrared language distribution system, a larger listening audience can join in the meeting

Voting

- ✧ If the system is equipped with a chairman unit with a graphic LCD, parliamentary voting (YES/NO/ABSTAIN) can be implemented even without a PC. The result is displayed on the LCD of every contribution unit

- ✧ Dedicated software for more forms of voting:
  - ➢ For/Against
  - ➢ Parliamentary: YES/NO/ABSTAIN
  - ➢ Questionnaire: 1/2/3/4/5
  - ➢ Audience response: --/-/0/+/++
  - ➢ Parliamentary (NPPV): YES/NO/ABSTAIN/NPPV
  - ➢ Appraisal:
    - ✧ Satisfied (four keys voting: perfectly satisfied/satisfied/basically satisfied/unsatisfied) (three keys voting: satisfied/basically satisfied/unsatisfied) (two keys voting: satisfied/unsatisfied)
    - ✧ Qualified (four/three/two keys voting)
    - ✧ Competent (four/three/two keys voting)

● Information display

- ✧ By using the information display module of the HCS-4800 application software, conference title, content, conference related information as well as meeting related notice can be displayed on large screen display (or projector).
- ✧ Contribution units equipped with graphic 256x32 LCD show:
  - ➢ Active microphone amount, request amount, delegates' signed-in and voting results, etc.
  - ➢ Messages (messages from system administrator to all or part of participants)
  - ➢ Multilingual (simplified/traditional Chinese and English, etc.) menu
- ✧ Contribution units equipped with 128x36 OLED show:
  - ➢ English menu
  - ➢ Channel number and language name

● Automatic video tracking system

Automatic video tracking can be carried out with video switch unit and camera.

● Remote control and remote diagnosis

Using advanced TCP/IP network protocol in communication between PC and CMU - to implement remote control and remote update for the conference system - for easy central control of a multi-room configuration.

● Intercom

The built-in intercom facility allows bidirectional vocal communication between conference participants, interpreters and operators, if an operator unit is in the system. Extra equipment is not required.

● Multi-room configuration function

Several main units can constitute several independent conference systems, or can be combined together easily as a large multi-room conference system configuration.

● Integrated optical fiber interface

Optical fiber interface is integrated into HCS-4800MA congress main unit, in cooperation with HCS-8600 series extension main unit, audio input & output device. Thus several mutually distant conference rooms can be combined and be operated as one venue. HCS-4800MA congress main unit and HCS-8600 series extension main unit can be connected by optical fiber or Cat.5e cable.

● **Seamlessly Integrated with conference sign-in system and central control system**

The seamless integration of HCS-4800 Series New Premium Digital Congress System, TAIDEN conference sign-in system and central control system provides comprehensive conference system solutions. Besides the basic conference management (discussion, voting, simultaneous interpretation, video tracking, etc.), it also provides conference sign-in and access control for the conference participants. Furthermore, it gives complete facilities to manage conference system power supply and peripheral multimedia equipment, surrounding lights, projector display and sound equipment. The easy incorporation of peripheral components upgrades the system into an advanced intelligent conference system with integrated solutions for conferencing, audio, lighting control, etc.

● **Fully compatible with TAIDEN HCS-8600 Series Paperless Multi-media Congress System**

Fully compatible with TAIDEN HCS-8600 Series Paperless Multimedia Congress System: HCS-8600 series congress units can be connected to the HCS-4800 system, and HCS-4800 series congress units can be connected to the HCS-8600 system (exclusive functions only available with HCS-8600 contribution units).

● **Other facilities**

◇ With the multi-channel audio input & output device (several units cascadable), multi-channel audio signals are available as output signals for infrared language distribution system or recording

◇ Built-in self-detecting functions in each contribution unit for automatic detection of microphone and keys

Features

● System reliability

System reliability, as described below, has always been the guiding principle while designing HCS-4800 series fully digital conference system:

✧ Dual congress main unit hot spare

✧ System software imports the hot-spare dual server structure by operating the main server and the back-up server at the same time

✧ Dual connection backup is implemented between HCS-4800MA congress main unit and HCS-8600MEA extension main unit via optical fiber and Cat.5 cable

✧ "Closed Loop - Daisy Chain" connection topology, breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units

✧ Built-in communication auto termination function to prevent system collapse if the TCP/IP cable is pulled out

✧ Auto recovery function, supports "PnP"

✧ If PC malfunction happens, CMU will return to control status automatically and take over control of the meeting, ensuring continuation of the meeting process

● System technological progress

HCS-4800 Series New Premium Digital Congress System - based on TAIDEN independent intellectual property rights digital processing and transmitting technologies MCA-STREAM 2.0 - adopts embedded hardware structure based on high performance dual CPU. HCS-4800 application software is based on Client/Server and hot-spare dual server structure. CMU and PC use advanced TCP/IP protocol for communication, perfectly integrated to benefit from modern technologies.

Furthermore, conference sign-in system and central control system can be integrated into TAIDEN HCS-4800 Series New Premium Digital Congress System to provide a complete and efficient solution.

● System operability

CMU controls efficiently: basic microphone control, simultaneous interpretation, video tracking, voting - without the intervention of an operator.

With a PC and HCS-4800 application software, more functions can be achieved, including enhanced microphone control, simultaneous interpretation, delegate information management, sign-in control, meeting data management and distribution, voting control and output audio processing. HCS-4800 application software can also be set up according to user requirements.

HCS-4800 application software adopts Client/Server structure - the process of the meeting is controlled by the operator from any PC within the same LAN. If PC malfunction occurs, CMU will return to control status automatically and take over control of the meeting, ensuring continuation of the meeting.

● Fine extensibility

The interpreter unit of HCS-4800 has a maximum of 64 channels (including floor channel) and satisfies the requirements of large-scale international meetings: allocating a language for each channel, selecting a channel, interlock facility. To avoid reciprocal interference and crosstalk the language of each channel can be released separately. The system supports a maximum of 4096 congress units and an infinite number of channel selectors.

HCS-4800 system is modular just daisy-chain HCS-4800 units to set-up a configuration. If extra system capacity is needed, units can be connected easily, starting from any access point.

● Economical and convenient installation

In virtue of the fully digital techniques of HCS-4800 system, system installation becomes simple and economical, especially in conjunction with the economical and durable HCS-4800 system dedicated 8-PIN cable or cat5e cable with a drain wire. The cable, suitable for the requirements of any kind of meeting, transmits up to 64 high quality audio signals, control data and information simultaneously.

An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance.

System connection reliability is improved by the professional 8P-DIN standard plug and clasp which facilitates system installation as well as disassembly. Cat5e Ethernet cable with a drain wire can be used as connection cable and extension cable. As a result of the daisy-chain design of the contribution units, insertion into the system can be done at any desired point, simplifying equipment extension and maintenance significantly.

● System maintenance

TAIDEN application software provides testing functions for online testing the operating conditions such as validity of the keys, LCD and microphones.

A detailed test report is issued for quick and simple maintenance of the system device.

System environmental conditions

- **Temperature range:**
  - ✧ Transport: -40 ºC ~ +70 ºC
  - ✧ Operating: 0 ºC ~ +45 ºC
- **Humidity range:**
  - ✧ Max. relative humidity: <95%
- **Safety: Compliant to EN62368-1**
- **EMC emission: Compliant to EN50032**
- **EMC immunity: Compliant to EN 50035**
- **EMC approvals: CE, FCC**
- **Power harmonics: Compliant to EN61000-3-2**
- **Voltage fluctuations and flicker: EN61000-3-3**

Acquired certifications

- **UK royalty UKAS ISO9001:2015 quality system authentication**
- **CE authentication (safety and electromagnetic compatibility)**
- **FCC authentication**

HCS-4890NCVSE/80 Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Priority button**
- **Pluggable microphone**
- **5 voting keys**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **Intuitive language list and volume control for quick channel switch and volume adjustment on the screen**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**
- **Built-in contactless IC-Card reader**
- **Braille is present for all physical buttons**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4890NDVSE/80 Delegate Unit, the HCS-4890NCVSE/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A 4.3" touch screen can display speaking list, sign-in and voting information, channel number and language name, operation menu, etc. Channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Intuitive language list and volume control for quick channel switch and volume adjustment on the screen
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5G and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 5 voting keys
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Multiform voting function can be implemented in combination with the corresponding software

- Key-press sign-in, contactless IC-Card sign-in
- Built-in contactless IC-Card slot to place the IC card, while automatically logout once the card is taken out from the slot
- Braille is present for all physical buttons
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Sign-in and voting information
  - Language channel and earphone volume adjustment
  - Screen brightness, system language and unit information
- Built-in channel selector with channel selection function
- Headphones volume control
- Five voting keys
- Microphone On/Off button with indicator
- Priority button

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Contactless IC-Card slot
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications
Electrical
Max. consumption .... 3.6 W
Headphone connection
Frequency response .... 20 Hz to 20 kHz
Earphone load impedance .... ≥16 Ohm
Earphone output .... 10 mW
LCD
Dimension 4:3
Resolution .... 800×480
Contrast 800:1
Interface data
Connector .... Ø 3.5 mm stereo jack for headphone
Mechanical
Mounting .... Tabletop
Dimensions (h x w x d) (w/o stem microphone) .. 60 x 240 x 101 mm
Weight (incl. stem microphone) .... 1.1 kg
Color .... Black (PANTONE 419 C)

Ordering Information

HCS-4890NCVSE_B/80 Fully Digital Congress System Chairman Unit (tabletop, discussion, 5 voting keys, built-in contactless IC-Card slot, 64 CHs, 4.3" touch screen, Braille, black, stem microphone to be order separately)

HCS-4890NDVSE/80 Delegate Unit

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Intuitive language list and volume control for quick channel switch and volume adjustment on the screen
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 5 voting keys
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **5 voting keys**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **Intuitive language list and volume control for quick channel switch and volume adjustment on the screen**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**
- **Built-in contactless IC-Card reader**
- **Braille is present for all physical buttons**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening, voting, selecting language channels and IC-Card sign-in. Excellent immunity to RF interference from mobile phones. A 4.3" touch screen can display speaking list, sign-in and voting information, channel number and language name, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

- Multiform voting function can be implemented in combination with the corresponding software
- Key-press sign-in, contactless IC-Card sign-in
- Built-in contactless IC-Card slot to place the IC card, while automatically logout once the card is taken out from the slot
- Braille is present for all physical buttons
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Sign-in and voting information
  - Language channel and earphone volume adjustment
  - Screen brightness, system language and unit information
- Built-in channel selector with channel selection function
- Headphones volume control
- Five voting keys
- Microphone On/Off button with indicator

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Contactless IC-Card slot
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical
Max. consumption .... 3.6 W
Headphone connection
Frequency response .... 20 Hz to 20 kHz
Earphone load impedance .... ≥16 Ohm
Earphone output .... 10 mW
LCD
Dimension 4:3
Resolution .... 800×480
Contrast 800:1
Interface data
Connector .... Ø 3.5 mm stereo jack for headphone
Mechanical
Mounting .... Tabletop
Dimensions (h x w x d) (w/o stem microphone) ... 60 x 240 x 101 mm
Weight (incl. stem microphone) .... 1.1 kg
Color .... Black (PANTONE 419 C)

Ordering Information

HCS-4890NDVSE_B/80 .... Fully Digital Congress System Delegate Unit (tabletop, discussion, 5 voting keys, built-in contactless IC-Card slot, 64 CHs, 4.3" touch screen, Braille, black, stem microphone to be order separately)

HCS-4890NCS/80 Chairman Unit

Features

■ **Elegant and ergonomic design**

■ **Exquisite and delicate tabletop design for ease of use and transport**

■ **Cable coming out of the base for a tidier wiring**

■ **Hi-Fi loudspeaker**

■ **Priority button**

■ **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**

■ **Supports custom boot screen and background picture**

■ **"Closed Loop - Daisy Chain" connection topology**

■ **Intuitive language list and volume control for quick channel switch and volume adjustment on the screen**

■ **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**

■ **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**

■ **Excellent immunity to RF interference from mobile phones**

■ **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**

■ **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4890NDS/80 Delegate Unit, the HCS-4890NCS/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A 4.3" touch screen can display speaking list, channel number and language name, operation menu, etc. Channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

■ Compliant to ISO 22259

■ "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units

■ Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies

■ Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)

■ Audio signals processed by high performance DSP: sound quality approaching CD quality

■ Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time

■ Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)

■ Supports up to 64 (1+63) CHs simultaneous interpretation

■ Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz

■ Intuitive language list and volume control for quick channel switch and volume adjustment on the screen

■ Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed

■ Automatic system recovery and "PnP" (plug and play)

■ Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone

■ Stem microphone can be unplugged during adjournment, easy to maintain

■ Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active

■ Excellent immunity to RF interference from mobile phones and comparable devices

■ Microphone On/Off button

■ An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance

■ Facilities in independent operation from computer:

   ♦ Set the number of delegates permitted to speak at the same time

   ♦ Speak mode: Open/Override/Voice/Request/PTT

   · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)

   · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)

   · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking

   · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application

   · "PTT" mode, press microphone On/Off button to talk

   ♦ Simultaneous interpretation

■ Braille is present for all physical buttons

■ Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC

■ Activation at any time (if the amount of active microphones in the system is less than 8)

■ Priority button to switch off or to mute the delegate units (except VIP units) according to preset

■ Approves/denies delegates' speaking request

■ System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - ◆ Speaking list, timing speaking information, delegate information
  - ◆ Language channel and earphone volume adjustment
  - ◆ Screen brightness, system language and unit information
- Built-in channel selector with channel selection function
- Headphones volume control
- Microphone On/Off button with indicator
- Priority button

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	3.6 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

LCD

Dimension	4:3
Resolution	800×480
Contrast	800:1

Interface data

Connector	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Tabletop
Dimensions (h x w x d) (w/o stem microphone)	60 x 240 x 101 mm
Weight (incl. stem microphone)	1.1 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4890NCS_B/80   Fully Digital Congress System Chairman Unit (tabletop, discussion, 64 CHs, 4.3" touch screen, Braille, black, stem microphone to be order separately)

HCS-4890NDS/80 Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **Intuitive language list and volume control for quick channel switch and volume adjustment on the screen**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening, selecting language channels. Excellent immunity to RF interference from mobile phones. A 4.3" touch screen can display speaking list, channel number and language name, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies

- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Intuitive language list and volume control for quick channel switch and volume adjustment on the screen
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Braille is present for all physical buttons
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Language channel and earphone volume adjustment
  - Screen brightness, system language and unit information
- Built-in channel selector with channel selection function
- Headphones volume control
- Microphone On/Off button with indicator

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	3.6 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

LCD

Dimension	4:3
Resolution	800×480
Contrast	800:1

Interface data

Connector	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Tabletop
Dimensions (h x w x d) (w/o stem microphone)	60 x 240 x 101 mm
Weight (incl. stem microphone)	1.1 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4890NDS_B/80   Fully Digital Congress System Delegate Unit (tabletop, discussion, 64 CHs, 4.3" touch screen, Braille, black stem microphone to be order separately)

HCS-4890NCVSE_B/FM/80 Chairman Unit

Features

- **Flush-mounting, elegant and ergonomic design**
- **Hi-Fi loudspeaker**
- **Priority button**
- **5 voting keys**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **Intuitive language list and volume control for quick channel switch and volume adjustment on the screen**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**
- **Built-in contactless IC-Card reader**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4890NDVSE/FM/80 Delegate Unit, the HCS-4890NCVSE/FM/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A 4.3" touch screen can display speaking list, sign-in and voting information, channel number and language name, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated cable (recommended use of cat5e cable with a drain wire)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Intuitive language list and volume control for quick channel switch and volume adjustment on the screen
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 5 voting keys
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation

- Multiform voting function can be implemented in combination with the corresponding software
- Key-press sign-in, contactless IC-Card sign-in
- Built-in contactless IC-Card slot to place the IC card, while automatically logout once the card is taken out from the slot
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Sign-in and voting information
  - Language channel and earphone volume adjustment
  - Screen brightness, system language and unit information
- Built-in channel selector with channel selection function
- Headphones volume control
- Five voting keys
- Microphone On/Off button with indicator
- Priority button

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Contactless IC-Card slot
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications
Electrical
Max. consumption .... 3.6 W
Headphone connection
Frequency response .... 20 Hz to 20 kHz
Earphone load impedance .... ≥16 Ohm
Earphone output .... 10 mW
LCD
Dimension 4:3
Resolution .... 800×480
Contrast 800:1
Interface data
Connector .... Ø 3.5 mm stereo jack for headphone
Mechanical
Mounting .... Flush-mounting
Dimensions (h x w x d) (w/o stem microphone) .. 90 x 240 x 112 mm
Weight (incl. stem microphone) .... 0.9 kg
Color .... Black (PANTONE 419 C)

Ordering Information

HCS-4890NCVSE_B/FM/80 Fully Digital Congress System Chairman Unit (flush-mounting, discussion, 5 voting keys, built-in contactless IC-Card slot, 64 CHs, 4.3" touch screen, black, stem microphone to be order separately)

HCS-4890NDVSE_B/FM/80 Delegate Unit

Features

- **Elegant and ergonomic design**
- **Hi-Fi loudspeaker**
- **5 voting keys**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **Intuitive language list and volume control for quick channel switch and volume adjustment on the screen**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**
- **Built-in contactless IC-Card reader**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening, voting, selecting language channels and IC-Card sign-in. Excellent immunity to RF interference from mobile phones. A 4.3" touch screen can display speaking list, sign-in and voting information, channel number and language name, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies

- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated cable (recommended use of cat5e cable with a drain wire)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Intuitive language list and volume control for quick channel switch and volume adjustment on the screen
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 5 voting keys
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Multiform voting function can be implemented in combination with the corresponding software
- Key-press sign-in, contactless IC-Card sign-in
- Built-in contactless IC-Card slot to place the IC card, while automatically logout once the card is taken out from the slot
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Sign-in and voting information
  - Language channel and earphone volume adjustment
  - Screen brightness, system language and unit information
- Built-in channel selector with channel selection function
- Headphones volume control
- Five voting keys
- Microphone On/Off button with indicator

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- Contactless IC-Card slot
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	3.6 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

LCD

Dimension	4:3
Resolution	800×480
Contrast	800:1

Interface data

Connector	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Flush-mounting
Dimensions (h x w x d) (w/o stem microphone)	90 x 240 x 112 mm
Weight (incl. stem microphone)	0.9 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4890NDVSE_B/FM/80   Fully Digital Congress System Delegate Unit (flush-mounting, discussion, 5 voting keys, built-in contactless IC-Card slot, 64 CHs, 4.3" touch screen, black, stem microphone to be order separately)

HCS-4891CVS/80 Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Priority button**
- **5-key voting**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **64 CHs×2 interpretation with independent volume control. Two delegates may share one unit thus cutting the facility cost by half**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4891DVS/80 Delegate Unit, the HCS-4891CVS/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A 4.3" touch screen can display speaking list, sign-in and voting information, channel number and language name, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 5-key voting
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Multiform voting function can be implemented in combination with the corresponding software
- Key-press sign-in

- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Sign-in and voting information
  - Language channel and earphone volume adjustment
  - Screen brightness, system language and unit information
- Built-in channel selector with channel selection function
- Headphones volume control
- Five virtual voting buttons
- Microphone On/Off button with indicator
- Priority button

Interconnections

- Socket for pluggable microphone
- 2×Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	2.4 W

LCD

Dimension	4:3
Resolution	800×480
Contrast	800:1

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Interface data

Connector	2×Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d) (w/o stem microphone)	68 x 99 x 145 mm
Weight (incl. stem microphone)	1.0 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4891CVS_B/80   Fully Digital Congress System Chairman Unit (tabletop, discussion, 5-key voting, 64 CHs×2, 4.3" touch screen, black, stem microphone to be order separately)

HCS-4891DVS/80 Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **5-key voting**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **64 CHs×2 interpretation with independent volume control. Two delegates may share one unit thus cutting the facility cost by half**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening, voting, selecting language channels and IC-Card sign-in. Excellent immunity to RF interference from mobile phones. A 4.3" touch screen can display speaking list, sign-in and voting information, channel number and language name, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies

- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 3 voting keys
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Multiform voting function can be implemented in combination with the corresponding software
- Key-press sign-in
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - ♦ Speaking list, timing speaking information, delegate information
  - ♦ Sign-in and voting information
  - ♦ Language channel and earphone volume adjustment
  - ♦ Screen brightness, system language and unit information
- Built-in channel selector with channel selection function
- Headphones volume control
- Five virtual voting buttons
- Microphone On/Off button with indicator

Interconnections

- Socket for pluggable microphone
- 2×Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	2.4 W

LCD

Dimension	4:3
Resolution	800×480
Contrast	800:1

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Interface data

Connector	2×Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d) (w/o stem microphone)	68 x 99 x 145 mm
Weight (incl. stem microphone)	1.0 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4891DVS_B/80   Fully Digital Congress System Delegate Unit (tabletop, discussion, 5-key voting, 64 CHs×2, 4.3" touch screen, black, stem microphone to be order separately)

HCS-4891C/80 Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Priority button**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4891D/80 Delegate Unit, the HCS-4891C/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A 4.3" touch screen can display speaking list, operation menu, etc.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality

- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Screen brightness, system language and unit information
- Uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator
- Priority button

Interconnections

- Socket for pluggable microphone
- 2×Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption ....2.4 W

LCD

Dimension 4:3
Resolution ....800×480
Contrast 800:1

Headphone connection

Frequency response ....20 Hz to 20 kHz
Earphone load impedance ....≥16 Ohm
Earphone output ....10 mW

Interface data

Connector ....2×Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting ....Tabletop
Dimensions (h x w x d) (w/o stem microphone) ....68 x 99 x 145 mm
Weight (incl. stem microphone) ....1.0 kg
Color ....Black (PANTONE 419 C)

Ordering Information

HCS-4891C_B/80 ....Fully Digital Congress System Chairman Unit (tabletop, discussion, 4.3" touch screen, black, stem microphone to be order separately)

HCS-4891D/80 Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening. Excellent immunity to RF interference from mobile phones. A 4.3" touch screen can display speaking list, operation menu, etc.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)

- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
    - Set the number of delegates permitted to speak at the same time
    - Speak mode: Open/Override/Voice/Request/PTT
        - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
        - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
        - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
        - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
        - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
    - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- 4.3" touch screen for displaying:
    - Speaking list, timing speaking information, delegate information
    - Screen brightness, system language and unit information
- Headphones volume control
- Microphone On/Off button with indicator

Interconnections

- Socket for pluggable microphone
- 2×Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical
Max. consumption	2.4 W

LCD
Dimension	4:3
Resolution	800×480
Contrast	800:1

Headphone connection
Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Interface data

Connector⸏⸏⸏⸏⸏⸏⸏⸏⸏2×Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting⸏⸏⸏⸏⸏⸏⸏⸏⸏⸏⸏⸏⸏Tabletop
Dimensions (h x w x d) (w/o stem microphone)⸏⸏⸏68 x 99 x 145 mm
Weight (incl. stem microphone)⸏⸏⸏⸏⸏⸏⸏1.0 kg
Color⸏⸏⸏⸏⸏⸏⸏⸏⸏⸏⸏Black (PANTONE 419 C)

Ordering Information

HCS-4891D_B/80⸏⸏⸏⸏Fully Digital Congress System Delegate Unit (tabletop, discussion, 4.3" touch screen, black, stem microphone to be ordered separately)

HCS-4891RC/80 Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Priority button**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable，, range : -35°~+50°**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4891RD/80 Delegate Unit, the HCS-4891RC/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A 4.3" touch screen can display speaking list, operation menu, etc.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring

- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ◆ Set the number of delegates permitted to speak at the same time
  - ◆ Speak mode: Open/Override/Voice/Request/PTT
    - ・"Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - ・"Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - ・"Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - ・"Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - ・"PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - ◆ Speaking list, timing speaking information, delegate information
  - ◆ Screen brightness, system language and unit information
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator
- Priority button

Interconnections

- 2×Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	2.4 W

LCD

Dimension	4:3
Resolution	800×480
Contrast	800:1

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Microphone type

Transducer	Ø14mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/135°	≥ 20 dB (@1 kHz)
Directivity 0°/180°	≥ 15 dB (@1 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	139 dB@1kHz, THD<3%

Interface data

Connector	2×Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	68 x 99 x 145 mm (base)
	37 x 37 x 241 mm (microphone)
Weight (incl. microphone)	1.4 kg
Color	Silver (PANTONE 401 C) microphone + black (PANTONE 419 C) base

Ordering Information

HCS-4891RC_S/80　Fully Digital Congress System Chairman Unit (tabletop, discussion, 4.3" touch screen, rectangular columnar metal microphone Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, silver microphone + black base)

HCS-4891RD/80 Delegate Unit

Features

■ **Elegant and ergonomic design**

■ **Exquisite and delicate tabletop design for ease of use and transport**

■ **Cable coming out of the base for a tidier wiring**

■ **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35° ~+50°**

■ **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**

■ **Supports custom boot screen and background picture**

■ **"Closed Loop - Daisy Chain" connection topology**

■ **Supporting 48 kHz audio sampling rate**

■ **Water resistant and noise-free button with long service life**

■ **Excellent immunity to RF interference from mobile phones**

■ **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**

■ **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening. Excellent immunity to RF interference from mobile phones. A 4.3" touch screen can display speaking list, operation menu, etc.

Functions

■ Compliant to ISO 22259

■ "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units

■ Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies

■ Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)

■ Audio signals processed by high performance DSP: sound quality approaching CD quality

■ Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring

■ Rectangular columnar microphone, the pitching angle of the microphone is adjustable

■ Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time

■ Supporting 48 kHz audio sampling rate

■ Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed

■ Automatic system recovery and "PnP" (plug and play)

■ Excellent immunity to RF interference from mobile phones and comparable devices

■ Microphone On/Off button

■ Hand up button (discussion mode)

■ An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance

■ Facilities in independent operation from computer:
   ◆ Set the number of delegates permitted to speak at the same time
   ◆ Speak mode: Open/Override/Voice/Request/PTT
      · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
      · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
      · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
      · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
      · "PTT" mode, press microphone On/Off button to talk

■ Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC

■ Set any delegate unit to be VIP unit
   ◆ VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

■ 4.3" touch screen for displaying:
   ◆ Speaking list, timing speaking information, delegate information
   ◆ Screen brightness, system language and unit information

■ Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring

■ Headphones volume control

■ Microphone On/Off button with indicator

Interconnections

■ 2×Ø 3.5 mm stereo headphone jacks

■ 1.5 m cable with 8P-DIN plug

■ 0.6 m cable with 8P-DIN socket

Technical Specifications
Electrical
Max. consumption	2.4 W

LCD
Dimension	4:3
Resolution	800×480
Contrast	800:1

Headphone connection
Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Microphone type

Transducer	Ø14mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/135°	≥ 20 dB (@1 kHz)
Directivity 0°/180°	≥ 15 dB (@1 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	139 dB@1kHz, THD<3%

Interface data

Connector	2×Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	68 x 99 x 145 mm (base)
	37 x 37 x 241 mm (microphone)
Weight (incl. microphone)	1.4 kg
Color	Silver (PANTONE 401 C) microphone + black (PANTONE 419 C) base

Ordering Information

HCS-4891RD_S/80 Fully Digital Congress System Delegate Unit (tabletop, discussion, 4.3" touch screen, rectangular columnar metal microphone Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, silver microphone + black base)

HCS-4891RC/82 Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Priority button**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable，, range : -35°~+50°**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4891RD/82 Delegate Unit, the HCS-4891RC/82 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A 4.3" touch screen can display speaking list, operation menu, etc.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality

- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Screen brightness, system language and unit information
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator
- Priority button

Interconnections

- 2×Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	2.4 W

LCD

Dimension	4:3
Resolution	800×480
Contrast	800:1

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Microphone type

Transducer	Ø16mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/120°	≥28 dB (1 kHz)
	≥28 dB (2 kHz)
	≥26 dB (4 kHz)
Equivalent noise	20 dBA
Maximum sound pressure level	132dB@1kHz, THD≤0.5%

Interface data

Connector	2×Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	68 x 99 x 145 mm (base)
	37 x 37 x 241 mm (microphone)
Weight (incl. microphone)	1.4 kg
Color	Silver (PANTONE 401 C) microphone + black (PANTONE 419 C) base

Ordering Information

HCS-4891RC_S/82　Fully Digital Congress System Chairman Unit (tabletop, discussion, 4.3" touch screen, rectangular columnar metal microphone, Ø16mm gold-plated large-diaphragm high performance electret condenser microphone, silver microphone + black base)

HCS-4891RD/82 Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35°~+50°**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening. Excellent immunity to RF interference from mobile phones. A 4.3" touch screen can display speaking list, operation menu, etc.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN   MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate

- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Screen brightness, system language and unit information
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator

Interconnections

- 2×Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications
Electrical

Max. consumption	2.4 W

LCD

Dimension	4:3
Resolution	800×480
Contrast	800:1

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Microphone type

Transducer .... Ø16mm gold-plated electret-condenser
Polar pattern .... Hypercardioid uni-directional
Sensitivity .... -37dB (0dB=1 V/Pa)
Frequency response .... 20 Hz to 20 kHz
Directivity 0°/120° .... ≥28 dB (1 kHz)
                                          ≥28 dB (2 kHz)
                                          ≥26 dB (4 kHz)
Equivalent noise .... 20 dBA
Maximum sound pressure level .... 132dB@1kHz, THD≤0.5%

Interface data

Connector .... 2×Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting .... Tabletop
Dimensions (h x w x d) .... 68 x 99 x 145 mm (base)
                                     37 x 37 x 241 mm (microphone)
Weight (incl. microphone) .... 1.4 kg
Color .... Silver (PANTONE 401 C) microphone +
                    black (PANTONE 419 C) base

Ordering Information

HCS-4891RD_S/82 Fully Digital Congress System Delegate Unit
                 (tabletop, discussion, 4.3" touch screen,
                 rectangular columnar metal microphone,
                 Ø16mm gold-plated large-diaphragm high
                 performance electret condenser microphone,
                 silver microphone + black base)

HCS-4891RCVS/80/2M Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Priority button**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35°~+50°**
- **Built-in isolated main microphone and backup microphone**
- **5-key voting**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **64 CHs×2 interpretation with independent volume control. Two delegates may share one unit thus cutting the facility cost by half**
- **Transmitting up to 64CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4891RDVS/80/2M Delegate Unit, the HCS-4891RCVS/80/2M Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A 4.3" touch screen can display speaking list, sign-in and voting information, channel number and language name, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Built-in an electrets main microphone and a backup microphone both with hypercardioid polar pattern. In case the main microphone system malfunctions, the backup microphone system can take over to ensure an uninterrupted meeting flow
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 5-key voting
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ◆ Set the number of delegates permitted to speak at the same time
  - ◆ Speak mode: Open/Override/Voice/Request/PTT
    - ・"Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - ・"Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - ・"Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking

· "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application

· "PTT" mode, press microphone On/Off button to talk

♦ Simultaneous interpretation

■ Multiform voting function can be implemented in combination with the corresponding software

■ Key-press sign-in

■ Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC

■ Activation at any time (if the amount of active microphones in the system is less than 8)

■ Priority button to switch off or to mute the delegate units (except VIP units) according to preset

■ Approves/denies delegates' speaking request

■ System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

■ 4.3" touch screen for displaying:
  ♦ Speaking list, timing speaking information, delegate information
  ♦ Sign-in and voting information
  ♦ Language channel and earphone volume adjustment
  ♦ Screen brightness, system language and unit information

■ Built-in channel selector with channel selection function

■ Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring

■ Headphones volume control

■ Five virtual voting buttons

■ Microphone On/Off button with indicator

■ Priority button

Interconnections

■ 2×Ø 3.5 mm stereo headphone jacks

■ 1.5 m cable with 8P-DIN plug

■ 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	2.4 W

LCD

Dimension	4:3
Resolution	800×480
Contrast	800:1

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Main microphone type

Transducer	Ø14mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/135°	≥ 20 dB (@1 kHz)
Directivity 0°/180°	≥15 dB (@1 kHz)
Equivalent noise	20 dBA
Maximum sound pressure level	139 dB@1kHz, THD<3%

Backup microphone type

Transducer	Ø14mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Phantom power	11~52 VDC, 2 mA
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Output impedance	280 Ohm
Directivity 0°/135°	≥20 dB (@1 kHz)
Directivity 0°/180°	≥15 dB (@1 kHz)
Equivalent noise	20 dBA
Maximum sound pressure level	139 dB@1kHz, THD<3%
SNR	74 dBA
Connection	XLRM-type connector

Interface data

Connector	2×Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	68 x 99 x 145 mm (base)
	37 x 37 x 249 mm (microphone)
Weight (incl. microphone)	1.5 kg
Color	Silver (PANTONE 401 C) microphone + black (PANTONE 419 C) base

Ordering Information

HCS-4891RCVS_S/80/2M   Fully Digital Congress System Chairman Unit (tabletop, discussion, voting, 64 CHs×2, 4.3" touch screen, rectangular columnar metal microphone Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, main microphone + backup microphone, silver microphone + black base)

HCS-4891RDVS/80/2M Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35°~+50°**
- **Built-in isolated main microphone and backup microphone**
- **5-key voting**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **64 CHs×2 interpretation with independent volume control. Two delegates may share one unit thus cutting the facility cost by half**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening, voting, selecting language channels and IC-Card sign-in. Excellent immunity to RF interference from mobile phones. A 4.3" touch screen can display speaking list, sign-in and voting information, channel number and language name, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Built-in an electrets main microphone and a backup microphone both with hypercardioid polar pattern. In case the main microphone system malfunctions, the backup microphone system can take over to ensure an uninterrupted meeting flow
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 5-key voting
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - ·"Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - ·"Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - ·"Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking

· "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
  · "PTT" mode, press microphone On/Off button to talk
  ♦ Simultaneous interpretation
■ Multiform voting function can be implemented in combination with the corresponding software
■ Key-press sign-in
■ Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
■ Set any delegate unit to be VIP unit
  ♦ VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

■ 4.3" touch screen for displaying:
  ♦ Speaking list, timing speaking information, delegate information
  ♦ Sign-in and voting information
  ♦ Language channel and earphone volume adjustment
  ♦ Screen brightness, system language and unit information
■ Built-in channel selector with channel selection function
■ Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
■ Headphones volume control
■ Five virtual voting buttons
■ Microphone On/Off button with indicator

Interconnections

■ 2×Ø 3.5 mm stereo headphone jacks
■ 1.5 m cable with 8P-DIN plug
■ 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical
Max. consumption	2.4 W

LCD
Dimension	4:3
Resolution	800×480
Contrast	800:1

Headphone connection
Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Main microphone type
Transducer	Ø14mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/135°	≥20 dB (@1 kHz)
Directivity 0°/180°	≥15 dB (@1 kHz)
Equivalent noise	20 dBA
Maximum sound pressure level	139 dB@1kHz, THD<3%

Backup microphone type
Transducer	Ø14mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Phantom power	11~52 VDC, 2 mA
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Output impedance	280 Ohm
Directivity 0°/135°	≥ 20 dB (@1 kHz)
Directivity 0°/180°	≥ 15 dB (@1 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	139 dB@1kHz, THD<3%
Connection	XLRM-type connector

Interface data
Connector	2×Ø 3.5 mm stereo jacks for headphones

Mechanical
Mounting	Tabletop
Dimensions (h x w x d)	68 x 99 x 145 mm (base)
	37 x 37 x 249 mm (microphone)
Weight (incl. microphone)	1.5 kg
Color	Silver (PANTONE 401 C) microphone + black (PANTONE 419 C) base

Ordering Information

HCS-4891RDVS_S/80/2M   Fully Digital Congress System Delegate Unit (tabletop, discussion, voting, 64 CHs×2, 4.3" touch screen, rectangular columnar metal microphone Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, main microphone + backup microphone, silver microphone + black base)

HCS-4891RC/80/2M Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Priority button**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35° ~+50°**
- **Built-in isolated main microphone and backup microphone**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4891RD/80/2M Delegate Unit, the HCS-4891RC/80/2M Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A 4.3" touch screen can display speaking list, operation menu, etc.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality

- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Built-in an electrets main microphone and a backup microphone both with hypercardioid polar pattern. In case the main microphone system malfunctions, the backup microphone system can take over to ensure an uninterrupted meeting flow
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Screen brightness, system language and unit information
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator
- Priority button

Interconnections

■ 2×Ø 3.5 mm stereo headphone jacks
■ 1.5 m cable with 8P-DIN plug
■ 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption..2.4 W

LCD

Dimension..4:3
Resolution..800×480
Contrast..800:1

Headphone connection

Frequency response................................20 Hz to 20 kHz
Earphone load impedance................................≥16 Ohm
Earphone output................................10 mW

Main microphone type

Transducer................Ø14mm gold-plated electret-condenser
Polar pattern................Hypercardioid uni-directional
Sensitivity................-37dB (0dB=1 V/Pa)
Frequency response................20 Hz to 20 kHz
Directivity 0°/135°................≥20 dB (@1 kHz)
Directivity 0°/180°................≥15 dB (@1 kHz)
Equivalent noise................20 dBA
SNR................74 dBA
Maximum sound pressure level................139 dB@1kHz, THD<3%

Backup microphone type

Transducer................Ø14mm gold-plated electret-condenser
Polar pattern................Hypercardioid uni-directional
Phantom power................11~52 VDC, 2 mA
Sensitivity................-37dB (0dB=1 V/Pa)
Frequency response................20 Hz to 20 kHz
Output impedance................280 Ohm
Directivity 0°/135°................≥20 dB (@1 kHz)
Directivity 0°/180°................≥15 dB (@1 kHz)
Equivalent noise................20 dBA
SNR................74 dBA
Maximum sound pressure level................139 dB@1kHz, THD<3%
Connection................XLRM-type connector

Interface data

Connector................2×Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting................Tabletop
Dimensions (h x w x d)................68 x 99 x 145 mm (base)
................37 x 37 x 249 mm (microphone)
Weight (incl. microphone)................1.5 kg
Color................Silver (PANTONE 401 C) microphone +
................Black (PANTONE 419 C) base

Ordering Information

HCS-4891RC_S/80/2M....Fully Digital Congress System Chairman Unit (tabletop, discussion, 4.3" touch screen, rectangular columnar metal microphone Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, main microphone + backup microphone, silver microphone + black base)

HCS-4891RD/80/2M Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35° ~+50°**
- **Built-in isolated main microphone and backup microphone**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening. Excellent immunity to RF interference from mobile phones. A 4.3" touch screen can display speaking list, operation menu, etc.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable

- Built-in an electrets main microphone and a backup microphone both with hypercardioid polar pattern. In case the main microphone system malfunctions, the backup microphone system can take over to ensure an uninterrupted meeting flow
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Screen brightness, system language and unit information
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator

Interconnections

- 2×Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	2.4 W

LCD

Dimension	4:3
Resolution	800×480
Contrast	800:1

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Main microphone type

Transducer	Ø14mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/135°	≥ 20 dB (@1 kHz)
Directivity 0°/180°	≥ 15 dB (@1 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	139 dB@1kHz, THD<3%

Backup microphone type

Transducer	Ø14mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Phantom power	11~52 VDC, 2 mA
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Output impedance	280 Ohm
Directivity 0°/135°	≥ 20 dB (@1 kHz)
Directivity 0°/180°	≥ 15 dB (@1 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	139 dB@1kHz, THD<3%
Connection	XLRM-type connector

Interface data

Connector	2×Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	68 x 99 x 145 mm (base)
	37 x 37 x 249 mm (microphone)
Weight (incl. microphone)	1.5 kg
Color	Silver (PANTONE 401 C) microphone + Black (PANTONE 419 C) base

Ordering Information

HCS-4891RD_S/80/2M   Fully Digital Congress System Delegate Unit (tabletop, discussion, 4.3" touch screen, rectangular columnar metal microphone Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, main microphone + backup microphone, silver microphone + black base)

HCS-4891RCVS_S/82 Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Priority button**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35°~+50°**
- **5-key voting**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **64 CHs×2 interpretation with independent volume control. Two delegates may share one unit thus cutting the facility cost by half**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4891RDVS/80 Delegate Unit, the HCS-4891RCVS/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A 4.3" touch screen can display speaking list, sign-in and voting information, channel number and language name, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 5-key voting
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
  - ♦ Simultaneous interpretation
- Multiform voting function can be implemented in combination with the corresponding software

- Key-press sign-in
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Sign-in and voting information
  - Language channel and earphone volume adjustment
  - Screen brightness, system language and unit information
- Built-in channel selector with channel selection function
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Five virtual voting buttons
- Microphone On/Off button with indicator
- Priority button

Interconnections

- 2×Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	2.7 W

LCD

Dimension	4:3
Resolution	800×480
Contrast	800:1

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Recommended microphone type

Transducer	Ø16mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/120°	≥28 dB (@1 kHz)
	≥28 dB (@2 kHz)
	≥26 dB (@4 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	132dB@1kHz, THD≤0.5%

Interface data

Connector	2×Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	68 x 99 x 145 mm (base)
	37 x 37 x 241 mm (microphone)
Weight (incl. microphone)	1.4 kg
Color	Silver (PANTONE 401 C) microphone + black (PANTONE 419 C) base

Ordering Information

HCS-4891RCVS_S/82   Fully Digital Congress System Chairman Unit (tabletop, discussion, voting, 64 CHs×2, 4.3" touch screen, rectangular columnar metal microphone, Ø16mm gold-plated large-diaphragm high performance electret condenser microphone, silver microphone + black base)

HCS-4891RDVS/82 Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Priority button**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35° ~+50°**
- **5-key voting**
- **Exquisite and sleek 4.3" touch screen for information display of meeting proceedings**
- **Supports custom boot screen and background picture**
- **"Closed Loop - Daisy Chain" connection topology**
- **64 CHs×2 interpretation with independent volume control. Two delegates may share one unit thus cutting the facility cost by half**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Water resistant and noise-free button with long service life**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4891RDVS/82Delegate Unit, the HCS-4891RCVS/82Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A 4.3" touch screen can display speaking list, sign-in and voting information, channel number and language name, operation menu, etc. Channel selection is automatically limited to the number of language channels available.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 5-key voting
- Hand up button (discussion mode)
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
  - ♦ Simultaneous interpretation
- Multiform voting function can be implemented in combination with the corresponding software

- Key-press sign-in
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- 4.3" touch screen for displaying:
  - Speaking list, timing speaking information, delegate information
  - Sign-in and voting information
  - Language channel and earphone volume adjustment
  - Screen brightness, system language and unit information
- Built-in channel selector with channel selection function
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Five virtual voting buttons
- Microphone On/Off button with indicator

Interconnections

- 2×Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical
Max. consumption .... 2.7 W
LCD
Dimension 4:3
Resolution .... 800×480
Contrast 800:1
Headphone connection
Frequency response .... 20 Hz to 20 kHz
Earphone load impedance .... ≥16 Ohm
Earphone output .... 10 mW
Recommended microphone type
Transducer .... Ø16mm gold-plated electret-condenser
Polar pattern .... Hypercardioid uni-directional
Sensitivity .... -37dB (0dB=1 V/Pa)
Frequency response .... 20 Hz to 20 kHz
Directivity 0°/120° .... ≥28 dB (@1 kHz)
.... ≥28 dB (@2 kHz)
.... ≥26 dB (@4 kHz)
Equivalent noise .... 20 dBA
SNR .... 74 dBA
Maximum sound pressure level .... 132dB@1kHz, THD≤0.5%

Interface data
Connector .... 2×Ø 3.5 mm stereo jacks for headphones

Mechanical
Mounting .... Tabletop
Dimensions (h x w x d) .... 68 x 99 x 145 mm (base)
.... 37 x 37 x 241 mm (microphone)
Weight (incl. microphone) .... 1.4 kg
Color .... Silver (PANTONE 401 C) microphone + black (PANTONE 419 C) base

Ordering Information

HCS-4891RDVS_S/82 ..... Fully Digital Congress System Chairman Unit (tabletop, discussion, voting, 64 CHs×2, 4.3" touch screen, rectangular columnar metal microphone, Ø16mm gold-plated large-diaphragm high performance electret condenser microphone, silver microphone + black base)

HCS-4838C Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Priority button**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4838D Delegate Unit, the HCS-4838C Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality

- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Priority button
- Microphone On/Off button
- Braille is present for physical buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator
- Priority button with indicator

Interconnections

- ■ Socket for pluggable microphone
- ■ Ø 3.5 mm stereo headphone jacks
- ■ 1.5 m cable with 8P-DIN plug
- ■ 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption .... 1.8 W

Headphone connection

Frequency response .... 20 Hz to 20 kHz
Earphone load impedance .... ≥16 Ohm
Earphone output .... 10 mW

Interface data

Connector .... Ø 3.5 mm stereo jacks for headphone

Mechanical

Mounting .... Tabletop
Dimensions (h x w x d) (w/o stem microphone) .... 66 x 99 x 143 mm
Weight (incl. stem microphone) .... 0.9 kg
Color .... Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838C .... Fully Digital Congress System Chairman Unit
                           (tabletop, discussion, Braille, charcoal gray,
                               stem microphone to be order separately)

HCS-4838D Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening. Excellent immunity to RF interference from mobile phones. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN   MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)

- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- Braille is present for physical button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - ♦ VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption .... 1.8 W

Headphone connection

Frequency response .... 20 Hz to 20 kHz

Earphone load impedance .... ≥16 Ohm

Earphone output .... 10 mW

Interface data

Connector .... Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting ....Tabletop
Dimensions (h x w x d) (w/o stem microphone) ..... 66 x 99 x 143 mm
Weight (incl. stem microphone) ....0.9 kg
Color ....Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838D ....Fully Digital Congress System Delegate Unit
(tabletop, discussion, Braille, charcoal gray,
stem microphone to be order separately)

HCS-4838CS/80 Chairman Unit with Channel Selection

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Priority button**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4838DS Delegate Unit, the HCS-4838CS/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A graphic OLED can display channel number and language name. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units

- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Priority button
- Microphone On/Off button
- Braille is present for physical buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Graphic 128x36 OLED for displaying Channel number and language name
- Built-in channel selector with channel selection function
- Headphones volume control
- Microphone On/Off button with indicator
- Priority button with indicator

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	1.8 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	>16 Ohm
Earphone output	10 mW

Interface data

Connector	Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d) (w/o stem microphone)	66 x 99 x 143 mm
Weight (incl. stem microphone)	0.9 kg
Color	Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838CS/80   Fully Digital Congress System Chairman Unit (tabletop, discussion, 64 CHs, OLED, Braille, charcoal gray, stem microphone to be order separately)

HCS-4838DS/80 Delegate Unit with Channel Selection

Features

■ **Elegant and ergonomic design**

■ **Exquisite and delicate tabletop design for ease of use and transport**

■ **Cable coming out of the base for a tidier wiring**

■ **Hi-Fi loudspeaker**

■ **Request button**

■ **Microphone On/Off button**

■ **Braille is present for physical buttons**

■ **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**

■ **"Closed Loop - Daisy Chain" connection topology**

■ **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**

■ **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**

■ **Excellent immunity to RF interference from mobile phones**

■ **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**

■ **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening. Excellent immunity to RF interference from mobile phones. A graphic OLED screen can display operation menu, channel number and language name. Channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

■ Compliant to ISO 22259

■ "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units

■ Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies

■ Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)

■ Audio signals processed by high performance DSP: sound quality approaching CD quality

■ Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time

■ Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)

■ Supports up to 64 (1+63) CHs simultaneous interpretation

■ Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz

■ Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed

■ Automatic system recovery and "PnP" (plug and play)

■ Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS**E type stem microphone

■ Stem microphone can be unplugged during adjournment, easy to maintain

■ Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active

■ Excellent immunity to RF interference from mobile phones and comparable devices

■ Request button: the delegate can press the "Request" button to request to speak and his/her name will appear in the request list (effective in "Discussion" mode)

■ Microphone On/Off button

■ Braille is present for physical button

■ An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance

■ Facilities in independent operation from computer:
 ◆ Set the number of delegates permitted to speak at the same time
 ◆ Speak mode: Open/Override/Voice/Request/PTT
  · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
  · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
  · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
  · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
  · "PTT" mode, press microphone On/Off button to talk
 ◆ Simultaneous interpretation

■ Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC

■ Set any delegate unit to be VIP unit
 ◆ VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Graphic 128x36 OLED for displaying Channel number and language name
- Built-in channel selector with channel selection function
- Headphones volume control
- Microphone On/Off button with indicator
- Request button with indicator

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption 1.8 W

Headphone connection

Frequency response 20 Hz to 20 kHz
Earphone load impedance >16 Ohm
Earphone output 10 mW

Interface data

Connector Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting Tabletop
Dimensions (h x w x d) (w/o stem microphone) 66 x 99 x 143 mm
Weight (incl. stem microphone) 0.9 kg
Color Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838DS/80 Fully Digital Congress System Delegate Unit (tabletop, discussion, 64 CHs, OLED, Braille, charcoal gray, stem microphone to be order separately)

HCS-4838CS Chairman Unit with Channel Selection

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Priority button**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4838DS Delegate Unit, the HCS-4838CS/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A graphic OLED can display channel number and language name. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units

- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Priority button
- Microphone On/Off button
- Braille is present for physical buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ◆ Set the number of delegates permitted to speak at the same time
  - ◆ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
  - ◆ Simultaneous interpretation
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Graphic 128x36 OLED for displaying Channel number and language name
- Built-in channel selector with channel selection function
- Headphones volume control
- Microphone On/Off button with indicator
- Priority button with indicator

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption _____1.8 W

Headphone connection

Frequency response _____20 Hz to 20 kHz
Earphone load impedance _____>16 Ohm
Earphone output _____10 mW

Interface data

Connector _____Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting _____Tabletop
Dimensions (h x w x d) (w/o stem microphone) ___ 66 x 99 x 143 mm
Weight (incl. stem microphone) _____0.9 kg
Color _____Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838CS _____Fully Digital Congress System Chairman Unit (tabletop, discussion, 64 CHs, OLED, Braille, charcoal gray, stem microphone to be order separately)

HCS-4838DS Delegate Unit with Channel Selection

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Request button**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening. Excellent immunity to RF interference from mobile phones. A graphic OLED screen can display operation menu, channel number and language name. Channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units

- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Request button: the delegate can press the "Request" button to request to speak and his/her name will appear in the request list (effective in "Discussion" mode)
- Microphone On/Off button
- Braille is present for physical button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Graphic 128x36 OLED for displaying Channel number and language name
- Built-in channel selector with channel selection function
- Headphones volume control
- Microphone On/Off button with indicator
- Request button with indicator

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption   1.8 W

Headphone connection

Frequency response   20 Hz to 20 kHz
Earphone load impedance   >16 Ohm
Earphone output   10 mW

Interface data

Connector   Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting   Tabletop
Dimensions (h x w x d) (w/o stem microphone)   66 x 99 x 143 mm
Weight (incl. stem microphone)   0.9 kg
Color   Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838DS   Fully Digital Congress System Delegate
                     Unit (tabletop, discussion, 64 CHs, OLED,
                     Braille, charcoal gray, stem microphone to
                     be order separately)

HCS-4838RCS/80 Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Priority button**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35°~+50°**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4838RDS Delegate Unit, the HCS-4838RCS Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A graphic OLED can display channel number and language name. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Priority button
- Microphone On/Off button
- Braille is present for physical buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC

- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Graphic 128x36 OLED for displaying Channel number and language name
- Built-in channel selector with channel selection function
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator
- Priority button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	1.8 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Recommended microphone type

Transducer	Ø14mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/135°	≥ 20 dB (@1 kHz)
Directivity 0°/180°	≥ 15 dB (@1 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	139 dB@1kHz, THD<3%

Interface data

Connector	Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	66 x 99 x 143 mm (base)
	37 x 37 x 241 mm (microphone)
Weight	1.4 kg
Color	Black (PANTONE 419 C) microphone + Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838RCS/80   Fully Digital Congress System Chairman Unit (tabletop, discussion, 64 CHs, OLED screen, rectangular columnar metal microphone Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, Braille, black microphone + charcoal gray base)

HCS-4838RDS/80 Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Request button**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35° ~+50°**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening. Excellent immunity to RF interference from mobile phones. A graphic OLED screen can display operation menu, channel number and language name. Channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies

- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Request button: the delegate can press the "Request" button to request to speak and his/her name will appear in the request list (effective in "Discussion" mode)
- Microphone On/Off button
- Braille is present for physical button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Graphic 128x36 OLED for displaying Channel number and language name
- Built-in channel selector with channel selection function
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator
- Request button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	1.8 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Recommended microphone type

Transducer	Ø14mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/135°	≥ 20 dB (@1 kHz)
Directivity 0°/180°	≥ 15 dB (@1 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	139 dB@1kHz, THD<3%

Interface data

Connector	Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	66 x 99 x 143 mm (base)
	37 x 37 x 241 mm (microphone)
Weight	1.4 kg
Color	Black (PANTONE 419 C) microphone + Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838RDS/80 Fully Digital Congress System Delegate Unit (tabletop, discussion, 64 CHs, OLED screen, rectangular columnar metal microphone Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, Braille, black microphone + charcoal gray base)

HCS-4838RCS Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Priority button**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35°~+50°**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4838RDS Delegate Unit, the HCS-4838RCS Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A graphic OLED can display channel number and language name. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Priority button
- Microphone On/Off button
- Braille is present for physical buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC

■ Activation at any time (if the amount of active microphones in the system is less than 8)

■ Priority button to switch off or to mute the delegate units (except VIP units) according to preset

■ Approves/denies delegates' speaking request

■ System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

■ Graphic 128x36 OLED for displaying Channel number and language name

■ Built-in channel selector with channel selection function

■ Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring

■ Headphones volume control

■ Microphone On/Off button with indicator

■ Priority button with indicator

Interconnections

■ Ø 3.5 mm stereo headphone jack

■ 1.5 m cable with 8P-DIN plug

■ 0.6 m cable with 8P-DIN socket

Ordering Information

HCS-4838RCS .... Fully Digital Congress System Chairman Unit (tabletop, discussion, 64 CHs, OLED screen, rectangular columnar metal microphone Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, Braille, black microphone + charcoal gray base)

Technical Specifications

Electrical

Max. consumption .... 1.8 W

Headphone connection

Frequency response .... 20 Hz to 20 kHz

Earphone load impedance .... ≥16 Ohm

Earphone output .... 10 mW

Recommended microphone type

Transducer .... Ø14mm gold-plated electret-condenser

Polar pattern .... Hypercardioid uni-directional

Sensitivity .... -37dB (0dB=1 V/Pa)

Frequency response .... 20 Hz to 20 kHz

Directivity 0°/135° .... ≥ 20 dB (@1 kHz)

Directivity 0°/180° .... ≥ 15 dB (@1 kHz)

Equivalent noise .... 20 dBA

SNR .... 74 dBA

Maximum sound pressure level .... 139 dB@1kHz, THD<3%

Interface data

Connector .... Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting .... Tabletop

Dimensions (h x w x d) .... 66 x 99 x 143 mm (base)

.... 37 x 37 x 241 mm (microphone)

Weight .... 1.4 kg

Color .... Black (PANTONE 419 C) microphone +
.... Charcoal gray (PANTONE Cool Gray 11 C)

HCS-4838RDS Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Request button**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35° ~+50°**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening. Excellent immunity to RF interference from mobile phones. A graphic OLED screen can display operation menu, channel number and language name. Channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies

- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Request button: the delegate can press the "Request" button to request to speak and his/her name will appear in the request list (effective in "Discussion" mode)
- Microphone On/Off button
- Braille is present for physical button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Graphic 128x36 OLED for displaying Channel number and language name
- Built-in channel selector with channel selection function
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator
- Request button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption   1.8 W

Headphone connection

Frequency response   20 Hz to 20 kHz
Earphone load impedance   ≥16 Ohm
Earphone output   10 mW

Recommended microphone type

Transducer   Ø14mm gold-plated electret-condenser
Polar pattern   Hypercardioid uni-directional
Sensitivity   -37dB (0dB=1 V/Pa)
Frequency response   20 Hz to 20 kHz
Directivity 0°/135°   ≥ 20 dB (@1 kHz)
Directivity 0°/180°   ≥ 15 dB (@1 kHz)
Equivalent noise   20 dBA
SNR   74 dBA
Maximum sound pressure level   139 dB@1kHz, THD<3%

Interface data

Connector   Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting   Tabletop
Dimensions (h x w x d)   66 x 99 x 143 mm (base)
                                 37 x 37 x 241 mm (microphone)
Weight   1.4 kg
Color   Black (PANTONE 419 C) microphone +
                          Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838RDS   Fully Digital Congress System Delegate Unit (tabletop, discussion, 64 CHs, OLED screen, rectangular columnar metal microphone Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, Braille, black microphone + charcoal gray base)

HCS-4838RC Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Priority button**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35° ~+50°**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4838RD Delegate Unit, the HCS-4838RC Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)

- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Priority button
- Microphone On/Off button
- Braille is present for physical buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator
- Priority button with indicator

Interconnections

■ Ø 3.5 mm stereo headphone jack

■ 1.5 m cable with 8P-DIN plug

■ 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	1.9 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Microphone type

Transducer	Ø14mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/135°	≥20 dB (@1 kHz)
Directivity 0°/180°	≥15 dB (@1 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	139 dB@1kHz, THD<3%

Interface data

Connector	Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	66 x 99 x 143 mm (base)
	37 x 37 x 241 mm (microphone)
Weight	1.4 kg
Color	Black (PANTONE 419 C) microphone + Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838RC   Fully Digital Congress System Chairman Unit (tabletop, discussion, rectangular columnar metal microphone, Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, Braille, black microphone +charcoal gray base)

HCS-4838RD Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35°~+50°**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening. Excellent immunity to RF interference from mobile phones. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable

- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- Braille is present for physical button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical
Max. consumption .... 1.9 W
Headphone connection
Frequency response .... 20 Hz to 20 kHz
Earphone load impedance .... ≥16 Ohm
Earphone output .... 10 mW

Recommended microphone type

Transducer	Ø14mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/135°	≥20 dB (@1 kHz)
Directivity 0°/180°	≥15 dB (@1 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	139 dB@1kHz, THD<3%

Interface data

Connector	Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	66 x 99 x 143mm (base)
	37 x 37 x 241 mm (microphone)
Weight	1.4 kg
Color	Black (PANTONE 419 C) microphone + Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838RD   Fully Digital Congress System Delegate Unit (tabletop, discussion, rectangular columnar metal microphone, Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, Braille, black microphone +charcoal gray base)

HCS-4838RC/2M Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Priority button**
- **Microphone On/Off button**
- **Built-in isolated main microphone and backup microphone**
- **Braille is present for physical buttons**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35° ~+50°**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4838RD/2M Delegate Unit, the HCS-4838RC/2M Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN   MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality

- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Built-in an electrets main microphone and a backup microphone both with hypercardioid polar pattern. In case the main microphone system malfunctions, the backup microphone system can take over to ensure an uninterrupted meeting flow
- Excellent immunity to RF interference from mobile phones and comparable devices
- Priority button
- Microphone On/Off button
- Braille is present for physical buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator
- Priority button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max.consumption ....1.9 W

Headphone connection

Frequency response ....20 Hz to 20 kHz

Earphoneload impedance ....>16 Ohm

Earphone output ....10 mW

Main microphone type

Transducer ....Ø14mm gold-plated electret-condenser

Polar pattern ....Hypercardioid uni-directional

Sensitivity ....-37dB (0dB=1 V/Pa)

Frequency response ....20 Hz to 20 kHz

Directivity 0°/135° ....≥20 dB (@1 kHz)

Directivity 0°/180° ....≥15 dB (@1 kHz)

Equivalent noise ....20 dBA

SNR ....74 dBA

Maximum sound pressure level ....139 dB@1kHz, THD<3%

Backup microphone type

Transducer ....Ø14mm gold-plated electret-condenser

Polar pattern ....Hypercardioid uni-directional

Phantom power ....11~52 VDC, 4 mA

Sensitivity ....-37dB (0dB=1 V/Pa)

Frequency response ....20 Hz to 20 kHz

Output impedance ....280 Ohm

Directivity 0°/135° ....≥20 dB (@1 kHz)

Directivity 0°/180° ....≥15 dB (@1 kHz)

Equivalent noise ....20 dBA

Maximum sound pressure level ....139 dB@1kHz, THD<3%

SNR ....74 dBA

Connection ....XLRM-type connector

Interface data

Connector ....Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting ....Tabletop

Dimensions (h x w x d) ....66 x 99 x 143mm (base)

........................37 x 37 x 241 mm (microphone)

Weight ....1.5 kg

Color ....Black (PANTONE 419 C) microphone +
Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838RC/2M ....Fully Digital Congress System Chairman Unit(tabletop, discussion, rectangular columnar metal microphone Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, Braille, black microphone +charcoal gray base)

HCS-4838RD/2M Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Microphone On/Off button**
- **Built-in isolated main microphone and backup microphone**
- **Braille is present for physical buttons**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35°~+50°**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4838RD/2M Delegate Unit, the HCS-4838RC/2M Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring

- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Built-in an electrets main microphone and a backup microphone both with hypercardioid polar pattern. In case the main microphone system malfunctions, the backup microphone system can take over to ensure an uninterrupted meeting flow
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- Braille is present for physical buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max.consumption -------------------------------------1.9 W

Headphone connection

Frequency response ------------------------20 Hz to 20 kHz
Earphoneload impedance ------------------------>16 Ohm
Earphone output -------------------------------10 mW

Main microphone type

Transducer --------------------Ø14mm gold-plated electret-condenser
Polar pattern -----------------------Hypercardioid uni-directional
Sensitivity ------------------------------37dB (0dB=1 V/Pa)
Frequency response------------------------20 Hz to 20 kHz
Directivity 0°/135° ------------------------≥20 dB (@1 kHz)
Directivity 0°/180° ------------------------≥15 dB (@1 kHz)
Equivalent noise -------------------------------20 dBA
SNR --74 dBA
Maximum sound pressure level -----------139 dB@1kHz, THD<3%

Backup microphone type

Transducer --------------------Ø14mm gold-plated electret-condenser
Polar pattern -----------------------Hypercardioid uni-directional
Phantom power -------------------------11~52 VDC, 4 mA
Sensitivity ------------------------------37dB (0dB=1 V/Pa)
Frequency response------------------------20 Hz to 20 kHz
Output impedance -------------------------------280 Ohm
Directivity 0°/135° ------------------------≥20 dB (@1 kHz)
Directivity 0°/180° ------------------------≥15 dB (@1 kHz)
Equivalent noise -------------------------------20 dBA
SNR --74 dBA
Maximum sound pressure level -----------139 dB@1kHz, THD<3%
Connection ----------------------------XLRM-type connector

Interface data

Connector -----------------Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting --Tabletop
Dimensions (h x w x d)----------------66 x 99 x 143mm (base)
------------------------------------37 x 37 x 241 mm (microphone)
Weight --1.5 kg
Color ----------------------Black (PANTONE 419 C) microphone +
                           Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838RD/2M ----------Fully Digital Congress System Delegate
                       Unit(tabletop, discussion, rectangular
                       columnar metal microphone, Ø14mm
                       gold-plated large-diaphragm high
                       performance electret condenser
                       microphone), Braille, black microphone
                       +charcoal gray base)

HCS-4838RC/82 Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Priority button**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35° ~+50°**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4838RD Delegate Unit, the HCS-4838RC Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality

- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Priority button
- Microphone On/Off button
- Braille is present for physical buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator
- Priority button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	1.9 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Recommended microphone type

Transducer	Ø16mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/120°	≥28 dB (@1 kHz)
	≥28 dB (@2 kHz)
	≥26 dB (@4 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	132dB@1kHz, THD≤0.5%

Interface data

Connector	Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	66 x 99 x 143 mm (base)
	37 x 37 x 241 mm (microphone)
Weight	1.4 kg
Color	Black (PANTONE 419 C) microphone + Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838RC/82   Fully Digital Congress System Chairman Unit (tabletop, discussion, rectangular columnar metal microphone, Ø16mm gold-plated large-diaphragm high performance electret condenser microphone, Braille, black microphone + charcoal gray base)

HCS-4838RD/82 Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35° ~+50°**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening. Excellent immunity to RF interference from mobile phones. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time

- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- Braille is present for physical button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - ♦ VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	1.9 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Microphone type

Transducer	Ø16mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz

Directivity 0°/120°	≥28 dB (@1 kHz)
	≥28 dB (@2 kHz)
	≥26 dB (@4 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	132dB@1kHz, THD≤0.5%

Interface data

| Connector | Ø 3.5 mm stereo jacks for headphones |

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	66 x 99 x 143mm (base)
	37 x 37 x 241 mm (microphone)
Weight	1.4 kg
Color	Black (PANTONE 419 C) microphone + Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

| HCS-4838RD/82 | Fully Digital Congress System Delegate Unit(tabletop, discussion, rectangular columnar metal microphone, Braille, black microphone +charcoal gray base) |

HCS-4838RCS/82 Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Priority button**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35°~+50°**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4838RDS Delegate Unit, the HCS-4838RCS Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A graphic OLED can display channel number and language name. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Priority button
- Microphone On/Off button
- Braille is present for physical buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
  - ♦ Simultaneous interpretation
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC

- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Graphic 128x36 OLED for displaying Channel number and language name
- Built-in channel selector with channel selection function
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Headphones volume control
- Microphone On/Off button with indicator
- Priority button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	1.8 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Recommended microphone type

Transducer	Ø16mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/120°	≥28 dB (@1 kHz)
	≥28 dB (@2 kHz)
	≥26 dB (@4 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	132dB@1kHz, THD≤0.5%

Interface data

Connector	Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	66 x 99 x 143 mm (base)
	37 x 37 x 241 mm (microphone)
Weight	1.4 kg
Color	Black (PANTONE 419 C) microphone + Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838RCS/82   Fully Digital Congress System Chairman Unit (tabletop, discussion, 64 CHs, OLED screen, rectangular columnar metal microphone, Ø16mm gold-plated large-diaphragm high performance electret condenser microphone, Braille, black microphone + charcoal gray base)

HCS-4838RDS/82 Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Request button**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range : -35°~+50°**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening. Excellent immunity to RF interference from mobile phones. A graphic OLED screen can display channel number and language name. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)

- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Request button: the delegate can press the "Request" button to request to speak and his/her name will appear in the request list (effective in "Discussion" mode)
- Microphone On/Off button
- Braille is present for physical button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Graphic 128x36 OLED for displaying Channel number and language name
- Built-in channel selector with channel selection function
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring

- Headphones volume control
- Microphone On/Off button with indicator
- Request button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption .... 1.8 W

Headphone connection

Frequency response .... 20 Hz to 20 kHz
Earphone load impedance .... ≥16 Ohm
Earphone output .... 10 mW

Recommended microphone type

Transducer .... Ø16mm gold-plated electret-condenser
Polar pattern .... Hypercardioid uni-directional
Sensitivity .... -37dB (0dB=1 V/Pa)
Frequency response .... 20 Hz to 20 kHz
Directivity 0°/120°   ≥28 dB (@1 kHz)
                                             ≥28 dB (@2 kHz)
                                             ≥26 dB (@4 kHz)
Equivalent noise .... 20 dBA
SNR .... 74 dBA
Maximum sound pressure level .... 132dB@1kHz, THD≤0.5%

Interface data

Connector .... Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting .... Tabletop
Dimensions (h x w x d) .... 66 x 99 x 143 mm (base)
.... 37 x 37 x 241 mm (microphone)
Weight .... 1.4 kg
Color .... Black (PANTONE 419 C) microphone +
                              Charcoal gray (PANTONE Cool Gray 11 C)

Ordering Information

HCS-4838RDS/82 ... Fully Digital Congress System Delegate Unit
                  (tabletop, discussion, 64 CHs, OLED screen,
                  rectangular columnar metal microphone,
                  Ø16mm gold-plated large-diaphragm high
                  performance electret condenser microphone,
                  Braille, black microphone + charcoal gray
                  base)

HCS-4838CV/80 Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Microphone On/Off buttons**
- **Priority button**
- **Three hidden voting buttons**
- **Braille is present for physical buttons**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate, reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional chairman unit meets the demands of even the largest conferences. It provides facilities for speaking, listening and voting. Excellent immunity to RF interference from mobile phones. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality

- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supports 48 kHz audio sampling rate, reproducing audio frequencies between 20 Hz and 20 kHz
- It has a unique serial number, and the meeting system can automatically or manually assign an ID to the delegate unit
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Braille is present for physical buttons
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
- Multiform voting function can be implemented in combination with the corresponding software
- Key-press sign-in
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Headphones volume control
- Three voting keys
- Microphone On/Off buttons with indicator
- Priority button

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications
Electrical
Max. consumption .... 1.9 W
Headphone connection
Frequency response .... 20 Hz to 20 kHz
Earphone load impedance .... ≥16 Ohm
Earphone output .... 10 mW
Interface data
Connector .... Ø 3.5 mm stereo jacks for headphones

Mechanical
Mounting   Tabletop
Dimensions (h x w x d) (w/o stem microphone) .... 66 x 99 x 143 mm
Color .... Charcoal gray (PANTONE Cool Gray 11 C)
Weight .... 1.1 kg

Ordering Information
HCS-4838CV/80 ..... Fully Digital Congress System Chairman Unit
(tabletop, discussion, 3 voting keys, Braille,
charcoal gray, stem microphone to be
ordered separately)

HCS-4838DV/80 Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Three hidden voting buttons**
- **Microphone On/Off buttons**
- **Braille is present for physical buttons**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate, reproducing audio frequencies between 20 Hz and 20 kHz**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, listening and voting. Excellent immunity to RF interference from mobile phones. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time

- Supports 48 kHz audio sampling rate, reproducing audio frequencies between 20 Hz and 20 kHz
- It has a unique serial number, and the meeting system can automatically or manually assign an ID to the delegate unit
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Braille is present for physical buttons
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Multiform voting function can be implemented in combination with the corresponding software
- Key-press sign-in
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Headphones volume control
- Three voting keys
- Microphone On/Off buttons with indicator

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications
Electrical
Max. consumption	1.9 W

Headphone connection
Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Interface data
Connector	Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d) (w/o stem microphone)	66 x 99 x 143 mm
Color	Charcoal gray (PANTONE Cool Gray 11 C)
Weight	1.1 kg

Ordering Information

HCS-4838DV/80   Fully Digital Congress System Delegate Unit (tabletop, discussion, 3 voting keys, Braille, charcoal gray, stem microphone to be ordered separately)

HCS-4838CVS/80 Chairman Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Three hidden voting buttons**
- **Microphone On/Off buttons**
- **Priority button**
- **Braille is present for physical buttons**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional chairman unit meets the demands of even the largest conferences. It provides facilities for speaking, listening, voting and selecting language channels. Excellent immunity to RF interference from mobile phones. A graphic OLED can display channel number and language name, channel selection is automatically limited to the number of language channels available. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- It has a unique serial number, and the meeting system can automatically or manually assign an ID to the delegate unit
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Braille is present for physical buttons
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Multiform voting function can be implemented in combination with the corresponding software
- Key-press sign-in
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)

■ Priority button to switch off or to mute the delegate units (except VIP units) according to preset

■ Approves/denies delegates' speaking request

■ System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

■ Graphic 128x36 OLED for displaying Channel number and language name

■ Built-in channel selector with channel selection function

■ Headphones volume control

■ Three voting keys

■ Microphone On/Off buttons with indicator

■ Priority button with indicator

Interconnections

■ Socket for pluggable microphone

■ Ø 3.5 mm stereo headphone jacks

■ 1.5 m cable with 8P-DIN plug

■ 0.6 m cable with 8P-DIN socket

Technical Specifications
Electrical
Max. consumption .... 1.9 W
Headphone connection
Frequency response .... 20 Hz to 20 kHz
Earphone load impedance .... ≥16 Ohm
Earphone output .... 10 mW
Interface data
Connector .... Ø 3.5 mm stereo jacks for headphones
Mechanical
Mounting   Tabletop
Dimensions (h x w x d) (w/o stem microphone) .... 66 x 99 x 143 mm
Color .... Charcoal gray (PANTONE Cool Gray 11 C)
Weight .... 1.5 kg

Ordering Information
HCS-4838CVS/80 .... Fully Digital Congress System Chairman Unit (tabletop, discussion, 3 voting keys, 64 CHs, OLED, Braille, charcoal gray, stem microphone to be ordered separately)

HCS-4838DVS/80 Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Three hidden voting buttons**
- **Microphone On/Off buttons**
- **Braille is present for physical buttons**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, listening, voting and selecting language channels. Excellent immunity to RF interference from mobile phones. A graphic OLED can display channel number and language name, channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- It has a unique serial number, and the meeting system can automatically or manually assign an ID to the delegate unit
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Excellent immunity to RF interference from mobile phones and comparable devices
- Braille is present for physical buttons
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Multiform voting function can be implemented in combination with the corresponding software
- Key-press sign-in
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Graphic 128x36 OLED for displaying Channel number and language name
- Built-in channel selector with channel selection function
- Headphones volume control
- Three voting keys
- Microphone On/Off buttons with indicator

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications
Electrical

Max. consumption	1.9 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Interface data

Connector	Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting	Tabletop
Dimensions (h x w x d) (w/o stem microphone)	66 x 99 x 143 mm
Color	Charcoal gray (PANTONE Cool Gray 11 C)
Weight	1.5 kg

Ordering Information

HCS-4838DVS/80   Fully Digital Congress System Delegate Unit (tabletop, discussion, 3 voting keys, 64 CHs, OLED, Braille, charcoal gray, stem microphone to be ordered separately)

HCS-4838DDS/80 Delegate Unit

Features

- **Elegant and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Hi-Fi loudspeaker**
- **Microphone On/Off buttons**
- **Braille is present for physical buttons**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Built-in dual channel selectors consist of up/down channel select buttons and SI information display**
- **The microphone buttons provide dual delegate identification, used for individual delegate identification on the left and right respectively and easy for automatic video tracking**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, listening, and selecting language channels. Excellent immunity to RF interference from mobile phones. It features dual channel selectors, the microphone buttons provide dual delegate identification, used for individual delegate identification on the left and right. A graphic OLED screen can display operation menu, channel number and language name. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports 48 kHz audio sampling rate, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- It has a unique serial number, and the meeting system can automatically or manually assign an ID to the delegate unit, supporting dual ID or single ID modes
- The microphone buttons provide dual delegate identification, used for individual delegate identification on the left and right respectively and easy for automatic video tracking
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Two microphone On/Off buttons
- Braille is present for physical buttons
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC

- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Graphic 128x36 OLED for displaying Channel number and language name
- Built-in two channel selectors consist of up/down channel select buttons and channel indicator display
- Headphones volume control
- Two microphone On/Off buttons with indicator

Interconnections

- Socket for pluggable microphone
- 2 × Ø 3.5 mm stereo headphone jacks
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption ....1.9 W

Headphone connection

Frequency response ....20 Hz to 20 kHz
Earphone load impedance ....≥16 Ohm
Earphone output ....10 mW

Interface data

Connector ....Ø 3.5 mm stereo jacks for headphones

Mechanical

Mounting   Tabletop
Dimensions (h x w x d) (w/o stem microphone) ... 66 x 99 x 143 mm
Weight (incl. stem microphone) ....0.9 kg
Color ....Charcoal gray (PANTONE Cool Gray 11 C)
Weight ....1.5 kg

Ordering Information

HCS-4838DDS/80 ......Fully Digital Congress System Delegate Unit (tabletop, discussion, 64 CHs, OLED, 2 channel selectors, dual predefined position, Braille, charcoal gray , stem microphone to be ordered separately)

HCS-4860CS/82 Chairman Unit with Channel Selection

Features

- **Elegant and ergonomic design**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range -20°~+68°**
- **Priority button and apply button**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Built-in channel selector consists of up/down channel select buttons and SI information display**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4860DS/80 Delegate Unit, the HCS-4860CS/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. The chairman unit can also be used to apply/cancel a request-to-speak and turn off all active microphones.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request

- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Graphic 128x36 OLED with screen saver for displaying:
  - ◆ Channel number and language name
- Hypercardioid uni-directional electret condenser microphone with two–color illuminated ring
- Built-in channel selector consists with up/down channel select buttons and SI information display
- Headphone volume up and down
- Microphone On/Off button with indicator
- Priority button with indicator
- Apply button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	1.8 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	>16 Ohm
Earphone output	10 mW

Microphone type

Transducer	Ø16mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/120°	≥28 dB (@1 kHz)
	≥28 dB (@2 kHz)
	≥26 dB (@4 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	132dB@1kHz, THD≤0.5%

Interface data

Connector	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Tabletop
Dimensions (h x w x d)	64 x 115 x 123 mm (base)
	37 x 241 x 37 mm (microphone)
Weight	1.1 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4860CS_B/82 Fully Digital Congress System Chairman Unit (tabletop, discussion, 64 CHs, OLED screen, rectangular columnar metal microphone, Ø16mm gold-plated large-diaphragm high performance electret condenser microphone, black)

HCS-4860DS/82 Delegate Unit with Channel Selection

Features

- **Elegant and ergonomic design**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range -20°~+68°**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Built-in channel selector consists of up/down channel select buttons and SI information display**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening and selecting language channels. Excellent immunity to RF interference from mobile phones. A graphic OLED screen can display operation menu, channel number and language name. Channel selection is automatically limited to the number of language channels available.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units in the system
- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality

- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Graphic 128x36 OLED with screen saver for displaying:
  - Channel number and language name
- Hypercardioid uni-directional electret condenser microphone with two–color illuminated ring
- Built-in channel selector consists with up/down channel select buttons and SI information display
- Headphone volume up and down
- Microphone On/Off button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption 1.8 W

Headphone connection

Frequency response 20 Hz to 20 kHz
Earphone load impedance >16 Ohm
Earphone output 10 mW

Microphone type

Transducer Ø16mm gold-plated electret-condenser
Polar pattern Hypercardioid uni-directional
Sensitivity -37dB (0dB=1 V/Pa)
Frequency response 20 Hz to 20 kHz
Directivity 0°/120° ≥28 dB (@1 kHz)
≥28 dB (@2 kHz)
≥26 dB (@4 kHz)
Equivalent noise 20 dBA
SNR 74 dBA
Maximum sound pressure level 132dB@1kHz, THD≤0.5%

Interface data

Connector Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting Tabletop
Dimensions (h x w x d) 64 x 115 x 123 mm (base)
37 x 241 x 37 mm (microphone)
Weight 1.1 kg
Color Black (PANTONE 419 C)

Ordering Information

HCS-4860DS_B/82 Fully Digital Congress System Delegate Unit (tabletop, discussion, 64 CHs, OLED screen, rectangular columnar metal microphone, Ø16mm gold-plated large-diaphragm high performance electret condenser microphone, black)

HCS-4860C/82   Chairman Unit

- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  ♦ Set the number of delegates permitted to speak at the same time
  ♦ Speak mode: Open/Override/Voice/Request/PTT
    · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    · "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Features

- **Elegant and ergonomic design**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range -20°~+68°**
- **Priority button**
- **Apply button**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-4860D/80 Delegate Unit, the HCS-4860C/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. The chairman unit can also be used to apply/cancel a request-to-speak and turn off all active microphones.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate

Controls and Indicators

- Hypercardioid uni-directional electret condenser microphone with two–color illuminated ring
- Microphone On/Off button with indicator
- Priority button with indicator
- Apply button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications
Electrical
Max. consumption .... 1.8 W
Headphone connection
Frequency response .... 20 Hz to 20 kHz
Earphone load impedance .... >16 Ohm
Earphone output .... 10 mW

Microphone type

Transducer ....Ø16mm gold-plated electret-condenser
Polar pattern ....Hypercardioid uni-directional
Sensitivity ....-37dB (0dB=1 V/Pa)
Frequency response ....20 Hz to 20 kHz
Directivity 0°/120°   ⩾28 dB (@1 kHz)
                                           ⩾28 dB (@2 kHz)
                                           ⩾26 dB (@4 kHz)
Equivalent noise ....20 dBA
SNR ....74 dBA
Maximum sound pressure level ....132dB@1kHz, THD⩽0.5%
Interface data
Connector ....Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting ....Tabletop
Dimensions (h x w x d) ....64 x 115 x 123 mm (base)
                       ....37 x 241 x 37 mm (microphone)
Weight ....1.1 kg
Color ....Black (PANTONE 419 C)

Ordering Information

HCS-4860C_B/82 .... Fully Digital Congress System Chairman Unit (tabletop, discussion, rectangular columnar metal microphone, Ø16mm gold-plated large-diaphragm high performance electret condenser microphone, black)

HCS-4860D/82   Delegate Unit

Features

- **Elegant and ergonomic design**
- **Rectangular columnar microphone, the pitching angle of the microphone is adjustable, range -20°~+68°**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, registering a request-to-respond and listening. Excellent immunity to RF interference from mobile phones.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units in the system
- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Rectangular columnar microphone, the pitching angle of the microphone is adjustable
- Excellent immunity to RF interference from mobile phones and comparable devices

- Microphone On/Off button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Hypercardioid uni-directional electret condenser microphone with two–color illuminated ring
- Microphone On/Off button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications
Electrical
Max. consumption ....1.8 W
Headphone connection
Frequency response ....20 Hz to 20 kHz
Earphone load impedance ....>16 Ohm
Earphone output ....10 mW
Microphone type
Transducer ....Ø16mm gold-plated electret-condenser
Polar pattern ....Hypercardioid uni-directional
Sensitivity ....-37dB (0dB=1 V/Pa)
Frequency response ....20 Hz to 20 kHz
Directivity 0°/120°   ≥28 dB (@1 kHz)
  ≥28 dB (@2 kHz)
  ≥26 dB (@4 kHz)
Equivalent noise ....20 dBA
SNR ....74 dBA
Maximum sound pressure level ....132dB@1kHz, THD≤0.5%
Interface data
Connector ....Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting ....Tabletop
Dimensions (h x w x d) ....64 x 115 x 123 mm (base)
............................37 x 241 x 37 mm (microphone)
Weight ....1.1 kg
Color ....Black (PANTONE 419 C)

Ordering Information

HCS-4860D_B/82 ......Fully Digital Congress System Delegate Unit (tabletop, discussion, rectangular columnar metal microphone, Ø16mm gold-plated large-diaphragm high performance electret condenser microphone, black)

HCS-48U6CMICM/80 Chairman Unit

Features

- **Flush-mounting, elegant and ergonomic design**
- **Priority button**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)s**

The stylish and ergonomically designed chairman unit has the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-48U6DMICM/80 Delegate Unit, the HCS-48U6CMICM/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. HCS-48U6CMICM/80 Chairman Unit can connect to HCS-48U6VOT voting unit and HCS-48U6SPK loudspeaker.

Functions

- Compliant to ISO 22259
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Excellent immunity to RF interference from mobile phones and comparable devices

- Microphone On/Off button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Microphone On/Off button with indicator
- Priority button

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm socket for HCS-48U6SPK
- RJ11 socket for HCS-48U6VOT
- 2 × RJ45 socket for daisy chain connection (be sure to use the network cable with an ESD drain wire and RJ45 plug with metal shell)

Technical Specifications

Electrical
Max. consumption	1.8 W

Mechanical
Mounting	Flush-mounting
Dimensions (h x w x d) (w/o stem microphone)	71 x 100 x 40 mm
Weight (incl. stem microphone)	0.5 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-48U6CMICM/80   Fully Digital Congress System Chairman Unit (flush-mounting, discussion, HCS-48U6VOT and HCS-48U6SPK can be connected, black, stem microphone to be ordered separately)

HCS-48U6DMICM/80 Delegate Unit

Features

- **Flush-mounting, elegant and ergonomic design**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

HCS-48U6DMICM/80 Delegate Unit meets the basic demands of the most conferences. It provides facilities for speaking and registering a request-to-speak. It can connect to HCS-48U6VOT voting unit and HCS-48U6SPK loudspeaker.

Functions

- Compliant to ISO 22259
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time.
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ◆ Set the number of delegates permitted to speak at the same time

- ◆ Speak mode: Open/Override/Voice/Request/PTT
  - ・"Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
  - ・"Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
  - ・"Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
  - ・"Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
  - ・"PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - ◆ VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Microphone On/Off button with indicator

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm socket for HCS-48U6SPK
- RJ11 socket for HCS-48U6VOT
- 2 × RJ45 socket for daisy chain connection (be sure to use the network cable with an ESD drain wire and RJ45 plug with metal shell)

Technical Specifications

Electrical

Max. consumption	1.8 W

Mechanical

Mounting	Flush-mounting
Dimensions (h x w x d) (w/o stem microphone)	71 x 100 x 40 mm
Weight (incl. stem microphone)	0.5 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-48U6DMICM/80   Fully Digital Congress System Delegate Unit (flush-mounting, discussion, HCS-48U6VOTTW and HCS-48U6SPK can be connected, black, stem microphone to be ordered separately)

HCS-48U6CMICS Chairman Unit

Features

- **Flush-mounting, elegant and ergonomic design**
- **Priority button**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**

The stylish and ergonomically designed chairman unit has the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-48U6DMICS Delegate Unit, the HCS-48U6CMICS Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting.

Functions

- Compliant to ISO 22259
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button

- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Uni-directional electret condenser microphone with illuminated ring
- Microphone On/Off button with indicator
- Priority button

Interconnections

- Socket for pluggable microphone
- RJ11 socket, 2-pin cable and 3-pin cable for HCS-48U6SELM/80

Technical Specifications
Mechanical

Mounting	Flush-mounting
Dimensions (h x w x d) (w/o stem microphone)	36 x 100 x 40 mm
Weight (incl. stem microphone)	0.2 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-48U6CMICS　　Fully Digital Congress System chairman Unit (flush-mounting, discussion, HCS-48U6SELM/80 needed, black, stem microphone to be order separately)

HCS-48U6DMICS   Delegate Unit

Features

- **Flush-mounting, elegant and ergonomic design**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**

This delegate unit meets the basic demands of most conferences. It provides facilities for speaking and registering a request-to-speak.

Functions

- Compliant to ISO 22259
- Based on TAIDEN   MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time.
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time

- Speak mode: Open/Override/Voice/Request/PTT
  - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
  - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
  - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
  - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
  - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Microphone On/Off button with indicator

Interconnections

- Socket for pluggable microphone
- RJ11 socket, 2-pin cable and 3-pin cable for HCS-48U6SELM/80

Technical Specifications
Mechanical

Mounting	Flush-mounting
Dimensions (h x w x d) (w/o stem microphone)	36 x 100 x 40 mm
Weight (incl. stem microphone)	0.2 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-48U6DMICS   Fully Digital Congress System Delegate Unit (flush-mounting, discussion, HCS-48U6SELM/80 needed, black, stem microphone to be order separately)

HCS-48U6SELM/80 Flush-mounting 64-Channel Selector

Features

- **Ergonomically compact and elegant design**
- **64 language channels for simultaneous interpretation, all channels with a 20 Hz to 20 kHz frequency response**
- **Faster processing speed and better audio quality with fully digital audio technology and built-in high-performance CPU**
- **Built-in "Silent" function**
- **Automatically adapts to available channels**
- **No audio output until the headphone is connected**
- **Flush mountable in tabletops, on top or at the front, or in arm rests of seats**
- **Supporting "PnP" (plug and play)**

The HCS-48U6SELM/80 is a compact and stylish single-user audio channel selector for listening by headphone. It provides a choice of up to 64 high-quality audio channels used for distribution of interpretation and floor channels.

Functions

- 64 language channels for simultaneous interpretation, all channels with a 20 Hz to 20 kHz frequency response
- Built-in channel selector (w/. up/down key) and OLED display
- The channel selector is active only when the headphone is inserted
- Built-in "Silent" function, to eliminate audible noise from the headphone. When not in use there is no audio output until one of the keys has been pressed
- Upon insertion of a headphone the default "floor" channel (channel 0) is selected with a comfortable headphone volume and the dimmed backlighting is activated

Controls and Indicators

- Two push-buttons (up/down) for channel selection
- Two push-buttons (up/down) for headphone volume control
- OLED display with screen saver

Interconnections

- Ø 3.5 mm socket for HCS-48U6SPK
- RJ11 socket for HCS-48U6VOT
- RJ11 socket, 2-pin socket and 3-pin socket for HCS-48U6MICS
- 2 × RJ45 socket for daisy chain connection (be sure to use the network cable with an ESD drain wire and RJ45 plug with metal shell)

Technical Specifications

Electrical

Max. consumption	1.8 W
Frequency response	20 Hz to 20 kHz
Headphone load impedance	>16 Ohm
Output power	10 mW

Mechanical

Mounting	Flush-mounting
Dimensions (h x w x d)	71 x 100 x 40 mm
Weight (incl. stem microphone)	0.4 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-48U6SELM/80　Flush-mounting 64-Channel Selector (HCS-48U6MICS, HCS-48U6VOT and HCS-48U6SPK can be connected, black)

HCS-48U6DVOTTW
Voting Unit with IC-Card Reader

Features

- **Flush-mounting, elegant and ergonomic design**
- **Max system capacity: 4096 voting units**
- **3 voting keys**
- **Built-in contactless IC-Card reader**

Functions

- New digital design, compliant to many international standards
- Voting system is resistive to 8 kV static, conforms to IEC CISPR 24
- Max system capacity: 4096 voting units
- 3 voting keys
- In combination with corresponding software, multiform voting can be implemented:
    - For/Against
    - Parliamentary: YES/NO/ABSTAIN
    - Appraisal:
        - Satisfied (three keys voting:
            satisfied/basically satisfied/unsatisfied)
            (two keys voting: satisfied/unsatisfied)
        - Qualified (three/two keys voting)
        - Competent (three/two keys voting)
- Built-in contactless IC-Card reader
- Key-press sign-in
- Automatic detection

Interconnections

- RJ11 socket for HCS-48U6SELM/80 or HCS-48U6MICM/80

Technical Specifications

Mechanical

Mounting	Flush-mounting
Dimensions (h x w x d)	73 x 100 x 40 mm
Weight	0.1 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-48U6DVOTTW — Fully Digital Voting Unit (flush-mounting, 3 voting keys, built-in contactless IC-Card slot, HCS-48U6SELM/80 or HCS-48U6MICM/80 needed, black)

HCS-48U6SPK Flush Loudspeaker Panel

Technical Specifications

Connector	Cable with Ø 3.5 mm jack

Mechanical

Mounting	Flush-mounting
Dimensions (h x w x d)	71×80×80 mm
Weight	0.2 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-48U6SPK .... Flush-mounting Loudspeaker Panel (HCS-48U6SELM/80 or HCS-48U6MICM/80 needed, black)

HCS-48U7CM/80 Chairman Unit

Features

- **Elegant and ergonomic design**
- **Hi-Fi loudspeaker**
- **Priority button**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-48U7DM/80 Delegate Unit, the HCS-48U7CM/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed

- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Headphones volume up and down
- Microphone On/Off button with indicator
- Priority button

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- 2 × RJ45 socket for daisy chain connection (be sure to use the network cable with an ESD drain wire and RJ45 plug with metal shell)

Technical Specifications

Electrical

Max. consumption	2.0 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm

Earphone output .... 10 mW
Interface data
Connector .... Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting .... Flush-mounting
Dimensions (h x w x d) (w/o stem microphone) .... 71 x 140 x 80 mm
Weight (incl. stem microphone) .... 0.6 kg
Color .... Black (PANTONE 419 C)

Ordering Information

HCS-48U7CM/80 .... Fully Digital Congress System Chairman
Unit (flush-mounting, discussion, built-in
loudspeaker and 3.5mm TRS
headphones jack, black, stem
microphone to be ordered separately)

HCS-48U7DM/80 Delegate Unit

Features

- **Elegant and ergonomic design**
- **Hi-Fi loudspeaker**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

This delegate unit meets the basic demands of most conferences. It provides facilities for speaking and registering a request-to-speak. Excellent immunity to RF interference from mobile phones.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* and MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain

- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Headphones volume up and down
- Microphone On/Off button with indicator

Interconnections

- Socket for pluggable microphone
- Ø 3.5 mm stereo headphone jack
- 2 × RJ45 socket for daisy chain connection (be sure to use the network cable with an ESD drain wire and RJ45 plug with metal shell)

Technical Specifications

Electrical
Max. consumption	2.0 W

Headphone connection
Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output	10 mW

Interface data
Connector	Ø 3.5 mm stereo jack for headphone

Mechanical
Mounting	Flush-mounting
Dimensions (h x w x d) (w/o stem microphone)	71 x 140 x 80 mm
Weight (incl. stem microphone)	0.6 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-48U7DM/80 .... Fully Digital Congress System Delegate Unit (flush-mounting, discussion, built-in loudspeaker and 3.5mm TRS headphones jack, black, stem microphone to be ordered separately)

HCS-48U10CVSE/80 Chairman Unit with Voting and Channel Selection

Features

- **Elegant and ergonomic design**
- **Hi-Fi loudspeaker**
- **Priority button**
- **3 voting keys**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Built-in channel selector consists of up/down channel select buttons**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**
- **Built-in multi-channel intercom facility**
- **Built-in contactless IC-Card reader**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interference from mobile phones. Similar in appearance to HCS-48U10DVSE/80 Delegate Unit, the HCS-48U10CVSE/80 Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. A graphic OLED can display operation menu, channel number and language name. Channel selection is automatically limited to the number of language channels available.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated cable (recommended use of cat5e cable with a drain wire)
- Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 3 voting keys
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Simultaneous interpretation
- Voting function (Yes/No/Abstain) in combination with the corresponding software
- Key-press sign-in, contactless IC-Card sign-in
- Built-in contactless IC-Card slot to place the IC card, while automatically logout once the card is taken out from the slot
- Automatic video tracking implementation when cooperating

with cameras & video switcher unit; preset positions on PC

■ Built-in multi-channel intercom facility

■ Activation at any time (if the amount of active microphones in the system is less than 8)

■ Priority button to switch off or to mute the delegate units (except VIP units) according to preset

■ Approves/denies delegates' speaking request

■ System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

■ Graphic 128x36 OLED with screen saver for displaying:
  ♦ English menu
  ♦ Channel number and language name

■ Built-in channel selector with up/down channel select buttons

■ Headphones volume up and down

■ Three voting keys with indicators

■ Microphone On/Off button with indicator

■ Priority button

Interconnections

■ Socket for pluggable microphone

■ Ø 3.5 mm stereo headphone jack

■ 2 × RJ45 socket for daisy chain connection (recommended use of cat5e cable with a drain wire & RJ45 plug with metal shield)

Technical Specifications

Electrical

Max. consumption	2.0 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	>16 Ohm
Earphone output	10 mW

Interface data

Connector	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Flush-mounting
Dimensions (h x w x d) (w/o stem microphone)	72 x 245 x 80 mm
Weight (incl. stem microphone)	0.8 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-48U10CVSE/80   Fully Digital Congress System Chairman Unit (flush-mounting, discussion, 3 voting keys, built-in contactless IC-Card slot, 64 CHs, OLED, black, stem microphone to be ordered separately)

HCS-48U10DVSE/80 Delegate Unit with Voting and Channel Selection

Features

- **Elegant and ergonomic design**
- **Hi-Fi loudspeaker**
- **3 voting keys**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz**
- **Built-in channel selector consists of up/down channel select buttons**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**
- **Built-in multi-channel intercom facility**
- **Built-in contactless IC-Card reader**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening, voting, selecting language channels and IC-Card sign-in. Excellent immunity to RF interference from mobile phones. A graphic OLED screen can display operation menu, channel number and language name. Channel selection is automatically limited to the number of language channels available. The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated cable (recommended use of cat5e cable with a drain wire)
- Supporting 48 kHz audio sampling rate, all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain
- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 3 voting keys
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
  - ♦ Simultaneous interpretation
- Voting function (Yes/No/Abstain) in combination with the corresponding software
- Key-press sign-in, contactless IC-Card sign-in
- Built-in contactless IC-Card slot to place the IC card, while automatically logout once the card is taken out from the slot
- Automatic video tracking implementation when cooperating

- with cameras & video switcher unit; preset positions on PC
■ Built-in multi-channel intercom facility
■ Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

■ Graphic 128x36 OLED with screen saver for displaying:
  - English menu
  - Channel number and language name
■ Built-in channel selector with up/down channel select buttons
■ Headphones volume up and down
■ Three voting keys with indicators
■ Microphone On/Off button with indicator

Interconnections

■ Socket for pluggable microphone
■ Ø 3.5 mm stereo headphone jack
■ 2 × RJ45 socket for daisy chain connection (recommended use of cat5e cable with a drain wire & RJ45 plug with metal shield)

Technical Specifications

Electrical

Max. consumption	2.0 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	>16 Ohm
Earphone output	10 mW

Interface data

Connector	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Flush-mounting
Dimensions (h x w x d) (w/o stem microphone)	72 x 245 x 80 mm
Weight (incl. stem microphone)	0.8 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-48U10DVSE/80	Fully Digital Congress System Delegate Unit (flush-mounting, discussion, 3 voting keys, built-in contactless IC-Card slot, 64 CHs, OLED, black, stem microphone to be ordered separately)

HCS-48U10DVE/80 Delegate Unit with Voting

Features

- **Elegant and ergonomic design**
- **Hi-Fi loudspeaker**
- **3 voting keys**
- **"Closed Loop - Daisy Chain" connection topology**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**
- **Built-in contactless IC-Card reader**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, registering a request-to-speak, listening, voting and IC-Card sign-in. Excellent immunity to RF interference from mobile phones.

The loudspeaker offers superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technologies
- Proprietary MCA-STREAM technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS**E type stem microphone
- Stem microphone can be unplugged during adjournment, easy to maintain

- Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interference from mobile phones and comparable devices
- Microphone On/Off button, 3 voting keys
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
    - Set the number of delegates permitted to speak at the same time
    - Speak mode: Open/Override/Voice/Request/PTT
        - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
        - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
        - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
        - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
        - "PTT" mode, press microphone On/Off button to talk
- Voting function (Yes/No/Abstain) in combination with the corresponding software
- Key-press sign-in, contactless IC-Card sign-in
- Built-in contactless IC-Card slot to place the IC card, while automatically logout once the card is taken out from the slot
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
    - Up to 32 units can be set as VIP in one system via application software
    - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Three voting keys with indicators
- Microphone On/Off button with indicator

Interconnections

- Socket for pluggable microphone
- 2 × RJ45 socket for daisy chain connection (recommended use of cat5e cable with a drain wire & RJ45 plug with metal shield)

Technical Specifications

Electrical

Max. consumption	2.0 W

Mechanical

Mounting	Flush-mounting
Dimensions (h x w x d) (w/o stem microphone)	72 x 245 x 80 mm
Weight (incl. stem microphone)	0.8 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-48U10DVE/80 .... Fully Digital Congress System Delegate Unit (flush-mounting, discussion, 3 voting keys, built-in contactless IC-Card slot, black, stem microphone to be ordered separately)

HCS-4813C Chairman Unit

Features

- **Stylish and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Invisible microphone**
- **Priority button**
- **Microphone On/Off button**
- **5 voting keys**
- **Braille is present for physical buttons**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Built-in channel selector consists of channel select keys and channel indicator display**
- **Excellent immunity to RF interferences from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interferences from mobile phones. Similar in appearance to HCS-4813D Delegate Unit, the HCS-4813C Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting. Channel selection is automatically limited to the number of language channels available.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technology
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Invisible microphone

- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Built-in adaptive feedback suppression (AFC) and adaptive noise control (ANC) functions to improve the system's audio gain, and always maintain a clear and stable pickup effect
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Automatic recovery facility, supporting "PnP" (plug and play)
- Excellent immunity to RF interferences from mobile phones and comparable devices
- Priority button, Microphone On/Off button
- 5 voting keys, Key-press sign-in
- Braille is present for all physical buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
  - ♦ Simultaneous interpretation
- Multiform voting in combination with the corresponding software modules
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Graphic 128x36 OLED for displaying Channel number and language name
- Built-in channel selector with channel select buttons
- Uni-directional electret condenser microphone
- Five voting buttons with indicators

- Headphones volume up and down
- Microphone On/Off button with indicator
- Priority button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack with volume control
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	1.8 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output power	10 mW

Microphone

Transducer	Electret-condenser
Polar pattern	Uni-directional
Sensitivity	-46dB (0dB=1 V/Pa)
Frequency response	50 Hz to 20 kHz
Directivity 0°/180°	≥20 dB (@1 kHz)
Equivalent noise	20 dBA
Maximum sound pressure level	125 dB @1kHz, THD<3%

Interface data

Connector	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Tabletop
Dimensions (h × w × d)	52 × 201 × 119 mm
Weight	0.7 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4813C   Fully Digital Congress System Chairman Unit (tabletop, invisible microphone, 5 voting keys, 64 CHs, Braille, black)

HCS-4813D Delegate Unit

Features

- **Stylish and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Invisible microphone**
- **Microphone On/Off button**
- **5 voting keys**
- **Braille is present for physical buttons**
- **OLED screen with high brightness and contrast, wide viewing angle and low power consumption**
- **"Closed Loop - Daisy Chain" connection topology**
- **Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable**
- **Built-in channel selector consists of channel select keys and channel indicator display**
- **Excellent immunity to RF interferences from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The multi-functional delegate unit meets the demands of even the largest conferences. It provides facilities for speaking, listening, voting and selecting language channels and offers excellent immunity to RF interferences from mobile phones. It features a channel selector with automatic limitation to the number of language channels available.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technology
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Invisible microphone
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed

- Built-in adaptive feedback suppression (AFC) and adaptive noise control (ANC) functions to improve the system's audio gain, and always maintain a clear and stable pickup effect
- Transmitting up to 64 CHs high quality digital audio signals on a dedicated 8-pin cable (general cat5e cable with a drain wire substitutable)
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 20 Hz and 20 kHz
- Automatic recovery facility, supporting "PnP" (plug and play)
- Excellent immunity to RF interferences from mobile phones and comparable devices
- Microphone On/Off button
- 5 voting keys, Key-press sign-in
- Braille is present for all physical buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
  - ♦ Simultaneous interpretation
- Multiform voting in combination with the corresponding software modules
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - ♦ VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Graphic 128x36 OLED for displaying Channel number and language name
- Built-in channel selector with channel select buttons
- Uni-directional electret condenser microphone
- Five voting buttons with indicators
- Headphones volume up and down
- Microphone On/Off button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack with volume control
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption... 1.8 W

Headphone connection

Frequency response.....................................20 Hz to 20 kHz

Earphone load impedance.............................≥16 Ohm

Earphone output power................................10 mW

Microphone

Transducer...Electret-condenser

Polar pattern...Uni-directional

Sensitivity..-46dB (0dB=1 V/Pa)

Frequency response.....................................50 Hz to 20 kHz

Directivity 0°/180°...≥20 dB (@1 kHz)

Equivalent noise..20 dBA

Maximum sound pressure level..............125dB@1kHz，THD<3%

Interface data

Connector.....................................Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting..Tabletop

Dimensions (h × w × d).................................52 × 201 × 119 mm

Weight..0.7kg

Color..Black (PANTONE 419 C)

Ordering Information

HCS-4813D............Fully Digital Congress System Delegate Unit
　　　　　　　　　　(tabletop, invisible microphone, 5 voting keys,
　　　　　　　　　　64 CHs, Braille, black)

HCS-4815C Chairman Unit

Features

- **Stylish and ergonomic design**
- **Exquisite and delicate tabletop design for ease of use and transport**
- **Cable coming out of the base for a tidier wiring**
- **Invisible microphone**
- **Priority button**
- **Microphone On/Off button**
- **Braille is present for physical buttons**
- **"Closed Loop - Daisy Chain" connection topology**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interferences from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**

The stylish and ergonomically designed chairman unit has all the necessary facilities to enable the user to chair a conference. It has excellent immunity to RF interferences from mobile phones. Similar in appearance to HCS-4815D Delegate Unit, the HCS-4815C Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technology
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Invisible microphone
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Built-in adaptive feedback suppression (AFC) and adaptive noise control (ANC) functions to improve the system's audio gain, and always maintain a clear and stable pickup effect
- Supports 48 kHz audio sampling

- Automatic recovery facility, supporting "PnP" (plug and play)
- Excellent immunity to RF interferences from mobile phones and comparable devices
- Priority button, Microphone On/Off button
- Braille is present for all physical buttons
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Low power consumption design
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Uni-directional electret condenser microphone
- Microphone On/Off button with indicator
- Priority button with indicator

Interconnections

- Ø 3.5 mm stereo headphone jack
- 1.5 m cable with 8P-DIN plug
- 0.6 m cable with 8P-DIN socket

Technical Specifications
Electrical

Max. consumption	1.8 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output power	10 mW

Microphone

Transducer	Electret-condenser
Polar pattern	Uni-directional
Sensitivity	-46dB (0dB=1 V/Pa)
Frequency response	50 Hz to 20 kHz

Directivity 0°/180° ⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯ ≥20 dB (@1 kHz)
Equivalent noise ⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯ 20 dBA
Maximum sound pressure level ⋯⋯⋯⋯⋯ 125 dB@1kHz, THD<3%
Interface data
Connector ⋯⋯⋯⋯⋯⋯⋯⋯ Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting ⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯ Tabletop
Dimensions (h × w × d) ⋯⋯⋯⋯⋯⋯⋯⋯⋯ 52 × 201 × 119 mm
Weight ⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯ 0.7kg
Color ⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯ Black (PANTONE 419 C)

Ordering Information

HCS-4815C ⋯⋯⋯⋯ Fully Digital Congress System Chairman Unit
(tabletop, build-in microphone, Braille, black)

HCS-4815D Delegate Unit

Features

■ **Stylish and ergonomic design**

■ **Exquisite and delicate tabletop design for ease of use and transport**

■ **Cable coming out of the base for a tidier wiring**

■ **Invisible microphone**

■ **Microphone On/Off button**

■ **Braille is present for physical buttons**

■ **"Closed Loop - Daisy Chain" connection topology**

■ **Supporting 48 kHz audio sampling rate**

■ **Excellent immunity to RF interferences from mobile phones**

■ **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**

■ **Supporting "PnP" (plug and play)**

The delegate unit meets the basic demands of conferences. It provides facilities for speaking and listening and offers excellent immunity to RF interferences from mobile phones.

Functions

■ Compliant to ISO 22259

■ "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units

■ Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technology

■ Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)

■ Audio signals processed by high performance DSP: sound quality approaching CD quality

■ Invisible microphone

■ Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time

■ Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed

■ Built-in adaptive feedback suppression (AFC) and adaptive noise control (ANC) functions to improve the system's audio gain, and always maintain a clear and stable pickup effect

■ Supports 48 kHz audio sampling

■ Automatic recovery facility, supporting "PnP" (plug and play)

■ Excellent immunity to RF interferences from mobile phones and comparable devices

■ Microphone On/Off button

■ Braille is present for all physical buttons

■ An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance

■ Facilities in independent operation from computer:

♦ Set the number of delegates permitted to speak at the same time

♦ Speak mode: Open/Override/Voice/Request/PTT

· "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)

· "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)

· "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking

· "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application

· "PTT" mode, press microphone On/Off button to talk

■ Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC

■ Low power consumption design

■ Set any delegate unit to be VIP unit

♦ VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

■ Uni-directional electret condenser microphone

■ Microphone On/Off button with indicator

Interconnections

■ Ø 3.5 mm stereo headphone jack

■ 1.5 m cable with 8P-DIN plug

■ 0.6 m cable with 8P-DIN socket

Technical Specifications

Electrical

Max. consumption	1.8 W

Headphone connection

Frequency response	20 Hz to 20 kHz
Earphone load impedance	≥16 Ohm
Earphone output power	10 mW

Microphone

Transducer	Electret-condenser
Polar pattern	Uni-directional
Sensitivity	-46dB (0dB=1 V/Pa)
Frequency response	50 Hz to 20 kHz
Directivity 0°/180°	≥20 dB (@1 kHz)
Equivalent noise	20 dBA
Maximum sound pressure level	125dB@1kHz, THD<3%

Interface data

Connector	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Tabletop
Dimensions (h × w × d)	52 × 201 × 119 mm
Weight	0.7kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4815D .... Fully Digital Congress System Delegate Unit
(tabletop, build-in microphone, Braille, black)

HCS-4825 Dual 64-Channel Selector

Features

- **Ergonomically compact and elegant design**
- **64 language channels for simultaneous interpretation, all channels with a 20 Hz to 20 kHz frequency response**
- **Faster processing speed and better audio quality with fully digital audio technology and built-in high-performance CPU**
- **Automatically adapts to available channels**
- **No audio output until the headphone is connected**
- **Flush mountable in tabletops, on top or at the front, or in arm rests of seats**
- **Supporting "PnP" (plug and play)**

The HCS-4825 is a compact and stylish single-user audio channel selector for listening by headphone. It provides a choice of up to dual 64 high-quality audio channels used for distribution of interpretation and floor channels.

Functions

- 64 language channels for simultaneous interpretation, all channels with a 20 Hz to 20 kHz frequency response
- Built-in dual channel selector(w/. up/down key) and OLED display
- The channel selector is active only when the headphone is inserted
- Upon insertion of a headphone the default "floor" channel (channel 0) is selected with a comfortable headphone volume and the dimmed backlighting is activated

Controls and Indicators

- Four push-buttons (up/down) for channel selection(a pair of button for each channel)
- Four push-buttons (up/down) for headphone volume control(a pair of button for each channel)
- OLED display with screen saver

Interconnections

- 2 × RJ45 socket for daisy chain connection (be sure to use the network cable with an ESD drain wire and RJ45 plug with metal shell)
- Ø 3.5 mm stereo jack x2 for headphone
- 6P mini DIN socket for HCS-4827H handheld microphone

Technical Specifications

Electrical

Max. consumption	2.2W
Frequency response	20 Hz to 20 kHz
Headphone load impedance	>16 Ohm
Output power	10 mW

Mechanical

Mounting	Flush-mounting
Dimensions (h x w x d)	40 x 68 x 47 mm
Weight	0.25 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4825　　　Dual 64-Channel Selector (flushing-mounting, black)

HCS-4827H Handheld Microphone

Features

- **Flush-mounting, elegant and ergonomic design**
- **Handheld microphone available for flush-mounting in tabletops, on top or at the front, or in armrests of seats**
- **Supporting 48 kHz audio sampling rate**
- **Excellent immunity to RF interference from mobile phones**
- **Separate adjustment of gain and EQ (5 band) of each microphone for the perfect sound**
- **Supporting "PnP" (plug and play)**
- **Combinable with HCS-4827SELM for flush-mounting into armrests of seats, or into desktop**

This delegate unit meets the basic demands of most conferences. It provides facilities for speaking and registering a request-to-speak.

Functions

- Compliant to ISO 22259
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technologies
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Audio signals processed by high performance DSP: sound quality approaching CD quality
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Supporting 48 kHz audio sampling rate
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic system recovery and "PnP" (plug and play)
- Handheld microphone available for flush-mounting in tabletops, on top or at the front, or in armrests of seats
- Excellent immunity to RF interference from mobile phones and comparable devices

- Microphone On/Off button on handheld microphone
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Facilities in independent operation from computer:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate applies to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras & video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - ♦ Can be set as VIP unit via application software
  - ♦ VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Uni-directional electret condenser microphone with illuminated ring (red)
- Microphone On/Off button on handheld microphone

Interconnections

- Handheld microphone with 0.7 meters spring cable can be stretched to 1.5 meters
- 6P mini DIN plug: connect with HCS-4827SELM

Technical Specifications
Electrical
Microphone

Transducer	Electret-condenser
Polar pattern	Uni-directional
Sensitivity	-46dB (0dB=1 V/Pa)
Frequency response	50 Hz to 20 kHz
Directivity 0°/180°	≥ 20 dB (@1 kHz)
Equivalent noise	20 dBA
Maximum sound pressure level	125 dB@1kHz, THD<3%

Mechanical

Mounting	Flush-mounting
Dimensions (h x w x d) (handheld mic.)	135 x 20 x 20 mm
Dimensions (h x w x d) (Cylindrical base)	180 x 40 x 40 mm
Weight	0.1 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4827H   Handheld Microphone (flush-mounting, HCS-4827SELM or HCS-4825 needed, black)

HCS-4827SELM Flush-mounting 64-Channel Selector

Features

- **Ergonomically compact and elegant design**
- **64 language channels for simultaneous interpretation, all channels with a 20 Hz to 20 kHz frequency response**
- **Faster processing speed and better audio quality with fully digital audio technology and built-in high-performance CPU**
- **Built-in "Silent" function**
- **Automatically adapts to available channels**
- **No audio output until the headphone is connected**
- **Flush mountable in tabletops, on top or at the front, or in arm rests of seats**
- **Supporting "PnP" (plug and play)**

The HCS-4827SELM is a compact and stylish single-user audio channel selector for listening by headphone. It provides a choice of up to 64 high-quality audio channels used for distribution of interpretation and floor channels.

Functions

- 64 language channels for simultaneous interpretation, all channels with a 20 Hz to 20 kHz frequency response
- Built-in channel selector (w/. up/down key) and OLED display
- The channel selector is active only when the headphone is inserted
- Built-in "Silent" function, to eliminate audible noise from the headphone. When not in use there is no audio output until one of the keys has been pressed
- Upon insertion of a headphone the default "floor" channel (channel 0) is selected with a comfortable headphone volume and the dimmed backlighting is activated

Controls and Indicators

- Two push-buttons (up/down) for channel selection
- Two push-buttons (up/down) for headphone volume control
- OLED display with screen saver

Interconnections

- 2 × RJ45 socket for daisy chain connection(be sure to use the network cable with an ESD drain wire and RJ45 plug with metal shell)
- Ø 3.5 mm stereo jack for headphone
- 6P mini DIN socket for HCS-4827H handheld microphone

Technical Specifications
Electrical

Max. consumption	1.8 W
Frequency response	20 Hz to 20 kHz
Headphone load impedance	>16 Ohm
Output power	10 mW

Mechanical

Mounting	Flush-mounting
Dimensions (h x w x d)	71 x 100 x 40 mm
Weight	0.4kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4827SELM　Flush-mounting 64-Channel Selector (black)

HCS-4857C Chairman Unit

Features

- **Stylish and ergonomic design**
- **Light aluminum alloy material with good heat dissipation**
- **Microphone stem can be lifted or lowered independently for perfect storage**
- **Based on TAIDEN originated MCA-STREAM 2.0 (Multi_Channel_ Audio STREAM) digital processing and transmitting technologies**
- **Full digital audio technology, built-in high performance CPU, faster processing speed, better sound quality**
- **Supporting 48 kHz audio sampling rate**
- **Supporting "PnP" (plug and play)**

The chairman unit meets the basic demands of conferences. It provides facilities for speaking. It has excellent immunity to RF interference from mobile phones. The HCS-4857C Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units
- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technology
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Lifting microphone
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time

- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic recovery facility, supporting "PnP" (plug and play)
- Microphone On/Off button
- Mini-microphone, with foam windshield
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- The microphone can be centrally controlled through the conference system software to rise, fall and pause
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, when all or part of chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Microphone On/Off button with indicator
- Uni-directional electret condenser microphone with bi-color illuminated ring
- Priority button with indicator

Interconnections

- One DC slot for connecting to +12V power adapter
- 2 × RJ45 socket for daisy chain connection (be sure to use the network cable with an ESD drain wire and RJ45 plug with metal shell)
- RS485 interface can be used to connect the central control system

Technical Specifications

Electrical

Power supply 12V,2.5A

Microphone

Transducer .... Ø14mm gold-plated electret-condenser

Polar pattern .... Hypercardioid uni-directional

Sensitivity .... -37dB (0dB=1 V/Pa)

Frequency response ....20 Hz to 20 kHz
Directivity 0°/180° ....≥20 dB (@1 kHz)
Equivalent noise ....20 dBA
Maximum sound pressure level ....139dB @1kHz, THD<3%
Mechanical
Mounting ....Flush-mounting
Dimensions (h × w × d)...............................695 ×50 × 135mm
Microphone length 41cm
Weight 3.1kg
Color ....Black (PANTONE 419 C)

Ordering Information

HCS-4857C ....Fully Digital Congress System Chairman Unit
(flush-mounting, discussion, retractable
microphone, Ø14mm gold-plated large-diaphragm
high performance electret condenser microphone,
microphone and adapter are included, black)

HCS-4857D Delegate Unit

Features

- **Stylish and ergonomic design**
- **Light aluminum alloy material with good heat dissipation**
- **Microphone stem can be lifted or lowered independently for perfect storage**
- **Based on TAIDEN originated MCA-STREAM 2.0 (Multi_Channel_ Audio STREAM) digital processing and transmitting technologies**
- **Full digital audio technology, built-in high performance CPU, faster processing speed, better sound quality**
- **Supporting 48 kHz audio sampling rate**
- **Supporting "PnP" (plug and play)**

The delegate unit meets the basic demands of conferences. It provides facilities for speaking and registering a request-to-speak. It has excellent immunity to RF interference from mobile phones.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units
- Based on TAIDEN originated MCA-STREAM 2.0 digital audio processing and transmitting technology
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Lifting microphone
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed

- Automatic recovery facility, supporting "PnP" (plug and play)
- Microphone On/Off button
- Mini-microphone, with foam windshield
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- The microphone can be centrally controlled through the conference system software to rise, fall and pause
- Facilities in independent operation from computer:
  - ◆ Set the number of delegates permitted to speak at the same time
  - ◆ Speak mode: Open/Override/Voice/Request/PTT
    - · "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - · "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - · "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Set any delegate unit to be VIP unit
  - ◆ VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Microphone On/Off button with indicator
- Uni-directional electret condenser microphone with bi-color
- illuminated ring

Interconnections

- One DC slot for connecting to +12V power adapter
- 2 × RJ45 socket for daisy chain connection (be sure to use the network cable with an ESD drain wire and RJ45 plug with metal shell)
- RS485 interface can be used to connect the central control system

Technical Specifications
Electrical

Power supply	12V,2.5A

Microphone

Transducer	Ø14mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/180°	≥20 dB (@1 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	139dB@1kHz, THD<3%

Mechanical

Mounting	Flush-mounting
Dimensions (h × w × d)	695 ×50 × 135mm
Microphone length	41cm
Weight	3.1kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4857D   Fully Digital Congress System Delegate Unit (flush-mounting, discussion, retractable microphone, Ø14mm gold-plated large-diaphragm high performance electret condenser microphone, microphone and adapter are included, black)

HCS-4857C/80 Chairman Unit

Features

- **Stylish and ergonomic design**
- **Light aluminum alloy material with good heat dissipation**
- **Microphone stem can be lifted or lowered independently for perfect storage**
- **Based on TAIDEN MCA-STREAM 2.0 (Multi_Channel_Audio STREAM) digital processing and transmitting technologies**
- **Full digital audio technology, built-in high performance CPU, faster processing speed, better sound quality**
- **Supporting 48 kHz audio sampling rate**
- **Supporting "PnP" (plug and play)**

The chairman unit meets the basic demands of conferences. It provides facilities for speaking. It has excellent immunity to RF interference from mobile phones. The HCS-4857C Chairman Unit includes a microphone priority button. When pressed, the priority button causes all currently active delegate microphones to be switched off temporarily or permanently, allowing the chairman to take control of the meeting.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technology
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Lifting microphone
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic recovery facility, supporting "PnP" (plug and play)
- Microphone On/Off button

- Mini-microphone, with foam windshield
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- The microphone can be centrally controlled through the conference system software to rise, fall and pause
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Priority button to switch off or to mute the delegate units (except VIP units) according to preset
- Approves/denies delegates' speaking request
- System supports up to 100 chairman units, while all or part chairman units have the control facilities listed above (set by software or main unit)

Controls and Indicators

- Hypercardioid uni-directional electret condenser microphone
- Microphone On/Off button with indicator
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring
- Priority button with indicator

Interconnections

- One DC slot for connecting to +12V power adapter
- 2 × RJ45 socket for daisy chain connection (be sure to use the network cable with an ESD drain wire and RJ45 plug with metal shell)
- RS485 interface can be used to connect the central control system

Technical Specifications

Electrical

Power supply	12V,2.5A

Microphone

Transducer	Ø16mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/180°	≥28 dB (@1 kHz)
	≥28 dB (@2 kHz)
	≥26 dB (@4 kHz)
Equivalent noise	20 dBA
Maximum sound pressure level	132dB@1kHz, THD≤0.5%

Mechanical

Mounting	Flush-mounting
Dimensions (h × w × d)	695 ×50 × 175mm
Microphone length	41cm
Weight	3.1kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4857C/80   Fully Digital Congress System Chairman Unit (flush-mounting, discussion, retractable microphone Ø16mm gold-plated large-diaphragm high performance electret condenser microphone, microphone and adapter are included, black)

HCS-4857D/80 Delegate Unit

Features

- **Stylish and ergonomic design**
- **Light aluminum alloy material with good heat dissipation**
- **Microphone stem can be lifted or lowered independently for perfect storage**
- **Based on TAIDEN MCA-STREAM 2.0 (Multi_Channel_ Audio STREAM) digital processing and transmitting technologies**
- **Full digital audio technology, built-in high performance CPU, faster processing speed, better sound quality**
- **Supporting 48 kHz audio sampling rate**
- **Supporting "PnP" (plug and play)**

The delegate unit meets the basic demands of conferences. It provides facilities for speaking and registering a request-to-speak. It has excellent immunity to RF interference from mobile phones.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technology
- Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)
- Lifting microphone
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic recovery facility, supporting "PnP" (plug and play)
- Microphone On/Off button
- Mini-microphone, with foam windshield
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance

- The microphone can be centrally controlled through the conference system software to rise, fall and pause
- Facilities in independent operation from computer:
  - Set the number of delegates permitted to speak at the same time
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Activation at any time (if the amount of active microphones in the system is less than 8)
- Set any delegate unit to be VIP unit
  - VIP unit can be activated as long as the total of active microphones is not beyond 8 (incl. chairman/delegate/VIP unit)

Controls and Indicators

- Hypercardioid uni-directional l electret condenser microphone
- Microphone On/Off button with indicator
- Hypercardioid uni-directional electret condenser microphone with bi-color illuminated ring

Interconnections

- One DC slot for connecting to +12V power adapter
- 2 × RJ45 socket for daisy chain connection (be sure to use the network cable with an ESD drain wire and RJ45 plug with metal shell)
- RS485 interface can be used to connect the central control system

Technical Specifications

Electrical

Power supply	12V,2.5A

Microphone

Transducer	Ø16mm gold-plated electret-condenser
Polar pattern	Hypercardioid uni-directional
Sensitivity	-37dB (0dB=1 V/Pa)
Frequency response	20 Hz to 20 kHz
Directivity 0°/180°	≥28 dB (@1 kHz)
	≥28 dB (@2 kHz)
	≥26 dB (@4 kHz)
Equivalent noise	20 dBA
SNR	74 dBA
Maximum sound pressure level	139dB@1kHz, THD<3%

Mechanical

Mounting	Flush-mounting
Dimensions (h × w × d)	695 ×50 × 175mm

Microphone length	41 cm
Weight	3.1kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4857D/80   Fully Digital Congress System Delegate Unit (flush-mounting, discussion, retractable microphone Ø16mm gold-plated large-diaphragm high performance electret condenser microphone, microphone and adapter are included, black)

HCS-4840DHT Multi-function Connector

Functions

- **Connection with HCS-4842DHT channel selector**
- **"Closed Loop - Daisy Chain" connection topology**
- **Data transmission between the units by patented "MCA-STREAM 2.0" technology**
- **Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)**
- **Automatic system recovery and "PnP" (plug and play)**

Interconnections

- Built-in 4 x RJ45 interface:
  - ♦ HCS-4840DHT can connect 4 pcs HCS-4842DHT channel selectors
- 2 m cable with 8P-DIN plug for connection to system CMU or to another Multi-function Connector
- 8P-DIN standard socket for loop-through interconnection

Technical Specifications

Electrical

Max. consumption	2.1W

Mechanical

Mounting	Fixed mounting
Dimensions (h x w x d)	32 x 86 x 176 mm
Weight	0.9 kg
Color	Silver (PANTONE 401 C)

Ordering Information

HCS-4840DHT — Multi-function Connector (for connection to 4 pcs of HCS-4842DHT channel selectors, silver)

HCS-4841DMIC Multi-function Connector

Functions

- **"Closed Loop - Daisy Chain" connection topology**
- **Data transmission between the units by patented "MCA-STREAM 2.0" technology**
- **Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between the congress units as well as between congress units and main unit(s)**
- **Automatic system recovery and "PnP" (plug and play)**
- **Connect 2 microphones through phoenix interface, 48V phantom power**
- **Two microphones can be controlled by any of on-off button simultaneously**
- **Every congress unit have unique ID number which is set by congress main unit automatically or manually for one delegate**
- **Microphone switch and indicator**

Interconnections

- Built-in 2 x RJ45 interface
- Recommended use of cat5e cable with a drain wire & RJ45 plug with metal shield, via the CBL8P2RJ45S converter cable connect to the EMU

Mechanical

Frequency response	20 Hz to 20 kHz
Maximum power consumption	2.1W
Output power	10 mW
Color	Black(PANTONE 419C)
Dimensions(h x w x d)	40 x 81x 120
Weight	0.4 kg

Ordering Information

HCS-4841DMIC — Multi-function Connector(for connection to 2 microphones, +48 V phantom power, black)

HCS-4842DHT Flush-mounting 64-Channel Selector

Features

- **Ergonomically compact and elegant design**
- **64 language channels for simultaneous interpretation, all channels with a 20 Hz to 20 kHz frequency response**
- **Faster processing speed and better audio quality with fully digital audio technology and built-in high-performance CPU**
- **Built-in "Silent" function**
- **Automatically adapts to available channels**
- **No audio output until the headphone is connected**
- **Flush mountable in tabletops, on top or at the front, or in arm rests of seats**

The HCS-4842DHT is a compact and stylish single-user audio channel selector for listening by headphone. It provides a choice of up to 64 high-quality audio channels used for distribution of interpretation and floor channels.

Functions

- 64 language channels for simultaneous interpretation, all channels with a 20 Hz to 20 kHz frequency response
- Built-in channel selector (w/. up/down key) and OLED display
- The channel selector is active only when the headphone is inserted
- Built-in "Silent" function, to eliminate audible noise from the headphone. When not in use there is no audio output until one of the keys has been pressed
- Upon insertion of a headphone the default "floor" channel (channel 0) is selected with a comfortable headphone volume and the dimmed backlighting is activated

Controls and Indicators

- Two push-buttons (up/down) for channel selection
- Two push-buttons (up/down) for headphone volume control
- Backlight OLED with screen saver for channel number indication interconnection

Interconnections

- Ø 3.5 mm jack for headphone
- RJ45 standard interface: connect with HCS-4840DHT Multi-function Connector via Cat.5 cable

Ordering Information

HCS-4842DHT   64-Channel Selector (flush-mounting, HCS-4840DHT needed, black)

HCS-4842X4 64-Channel × 4 Portable Audio Distributor

Functions

- **For audio distribution to the media**
- **Faster processing speed and better audio quality with fully digital audio technology and built-in high-performance CPU**
- **Up to 64 language channels available**
- **Four-channel output with independent channel selector and volume control**
- **OLED display of the live channel number, name and volume**

Interconnections

- 4 XLR connectors for audio output
- 2.1 m cable with 8P-DIN plug
- 8P-DIN socket

Technical Specifications

Electrical

Frequency response	100 Hz - 20 kHz
S/N	≥78 dBA
Audio output	4×XLR Balanced output
	Max. 0 dBV
THD	≤0.5%
Power supply	DC 48 V, 75 mA

Mechanical

Dimensions	226×141×42 mm
Mounting	Flush-mounting or wall-mounting
Weight	1.0 kg

Ordering Information

HCS-4842X4   64-Channel×4 Portable Audio Distributor

HCS-4852T   8-pin Cable Splitter
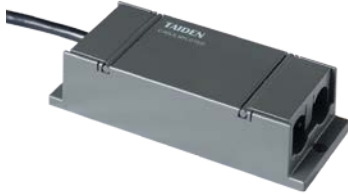
Features

■ **Relay facility, amplification of the communication signals**

■ **8P-DIN interfaces, "1 in / 3 out " structure for connection**

■ **2m-cable with a 8P-DIN connector at the input end**

■ **Three 8PIN output interfaces, can drive 60-meter long extension cable**

■ **Dimensions (h × w × d): 35 × 149 × 90 mm**

Ordering Information

HCS-4852T .... 8-pin Cable Splitter (1 input & 3 outputs, for HCS-4800 and HCS-8600 series)
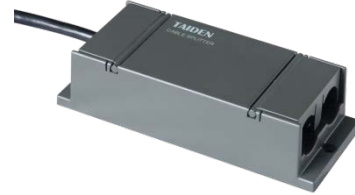
HCS-4852TN   RJ45 Port Splitter

Features

■ **Relay facility, amplification of the communication signals**

■ **RJ45 sockets, "1 in / 4 out " structure for connection**

■ **RJ45 socket at the input end**

■ **Four RJ45 output sockets, can drive 60-meter long extension cable**

■ **Dimensions (h × w × d): 24 × 103 × 66 mm**

■ **Weight: 68g**

Ordering Information

HCS-4852TN .... Network Port Splitter (RJ45 sockets, 1 input & 4 outputs, for HCS-4800 and HCS-8600 series)

HCS-4853T Cable Splitter

Features

■ **Relay facility, amplification of the communication signals**

■ **"1 in / 3 out " structure for connection**

■ **For connection between HCS-8685 Interpretation Unit and HCS-8300M series, HCS-4100M/50 series, HCS-5100MA/B series**

■ **2m-cable with a 6P-DIN connector at the input end**

■ **Three 8PIN output interfaces, can drive 60-meter long extension cable**

■ **Dimensions (h × w × d): 35 × 149 × 90 mm**

Ordering Information

HCS-4853T ..... 6-pin to 8-pin Cable Splitter (1 input (6P-DIN) & 3 outputs (8P-DIN), for connection between HCS-8685 Interpretation Unit and HCS-8300M series, HCS-4100M/50 series, HCS-5100MA/B series)

HCS-4800MA/20 Congress Main Unit

Features

- **Connectable to multi-channel audio input or output devices for versatile expansion of the system**
- **High system reliability guaranteed by "Closed Loop - Daisy Chain" connection topology**
- **Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between main unit(s) and congress units**
- **Perfect sound quality on all 64 simultaneous interpretation channels: frequency response 20 Hz to 20 kHz**
- **Equipped with optical fiber interface to combine two widely separated conference rooms to form one unique coherent system**
- **Connection facility for an additional condenser or dynamic microphone, expanding user's application spectrum**
- **TCP/IP communication protocol in PC control**
- **Remote control and remote update**
- **Voting facilities without PC intervention**
- **Plug and play for all units**
- **Excellent immunity to RF interferences from mobile phones and comparable devices**
- **System power controllable by central control system**
- **2.8" LCD display for status information and configuration**
- **Rotary control to navigate through the LCD menus**
- **With web page control function, main unit's parameters can be set through web browser**
- **Emergency signal interface**

The Congress Main Unit includes features for controlling delegate microphones, distributing simultaneous interpretation and conducting voting sessions, without an operator.

In combination with a PC, the Congress Main Unit brings greater sophistication to conference control. Users are able to access an extensive range of software, each with a specific function in controlling and monitoring a conference, greatly expanding the capacity to manage a conference. In the event of PC failure, the Congress Main Unit will revert to its stand-alone operation mode, enabling the conference to proceed.

The Congress Main Unit also provides power supply to the Congress units.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units
- Embedded high performance DSP for audio signal processing, supporting 48 kHz audio sampling rate. All 64 channels feature perfect sound quality with a frequency response of 20 Hz to 20 kHz
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Integrated voice enhance and howling suppression function for each microphone to improve sound effects
- 2 audio line in or 1 audio line in + 1 microphone input: gain and EQ for each input adjustable separately, +48 V phantom power available at microphone input, a condenser microphone can be connected directly
- Unit offers connection facilities to multi-channel audio input or output devices for versatile expansion of the system
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technology
- Adopted fully digital audio transmitting technology between the main units and congress units
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Set any delegate unit to be VIP unit, VIP unit can be activated as long as the total of active microphones is not beyond 8
- Connection facility for additional condenser microphones, expanding user's application spectrum (HCS-8600MIO series)
- If additional contribution units are connected for system expansion, additional Congress Extension Main Units HCS-8600MEA are required:
  - 4096 discussion or voting units
  - 378 interpreter units (with maximum 63 booths, each booth with maximum 6 interpreter units)
  - Any quantity of channel selectors
- With the Audio Input & Output Device (several units cascadable), multi-channel digital/analog audio signals are available as output signals for infrared language distribution system or recording
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Implemented features in stand-alone mode:
  - Set the number (1~8) of delegates permitted to speak at the same time
  - Set-up of speaking time limitation (1~240 minutes)
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)

- ・"Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
  - ・"Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
  - ・"PTT" mode, press microphone On/Off button to talk
  - ◆ Parliamentary voting (YES/NO/ABSTAIN)
  - ◆ 64 (1+63) channels simultaneous interpretation function. Cooperates with channel selector or infrared language distribution system enabling a larger audience to follow the conference
- In combination with the corresponding software, more functions can be implemented:
  - ◆ Centralized microphone management
  - ◆ Multiform voting:
    - ・For/Against
    - ・Parliamentary: YES/NO/ABSTAIN
    - ・Questionnaire: 1/2/3/4/5
    - ・Audience response: --/-/0/+/++
    - ・Parliamentary (NPPV): Yes/No/ABSTAIN/NPPV
    - ・Appraisal:
      - ✧ Satisfied (four keys voting: perfectly satisfied/satisfied/basically satisfied/unsatisfied) (three keys voting: satisfied/basically satisfied/unsatisfied) (two keys voting: satisfied/unsatisfied)
      - ✧ Qualified (four/three/two keys voting)
      - ✧ Competent (four/three/two keys voting)
  - ◆ Several sign-in modes: entrance sign-in/seat sign-in
  - ◆ Depending on the purchased HCS-4800 software, user gains access to additional conference control & management functions
- Advanced TCP/IP communication protocol in PC controlled mode, easy to carry out remote control and remote update
- With web page control function, main unit's parameters can be set through web browser
- USB interface（Type-c）support digital audio transmission, mainstream conference software is adaptive
- Hot spare dual server structure: another Congress Main Unit is set up as backup Congress Main Unit and connected to the system and takes over automatically if the main Congress Main Unit fails
- Multi-room configuration: Congress Main Unit(s) can be used as Congress Extension Main Unit(s) to carry out multi-room configuration flexibly. Multiple Congress Main Unit configuration allows all connected multiple rooms to be operated either as one unique system or as independent systems
- Integrated real-time clock displays time on the LCD of the interpreter unit to inform interpreter to stay on schedule
- Built-in unit detection facilities: detect the unit's LEDs and voting keys prior to start the meeting
- Automatic recovery facility, supporting "PnP" (plug and play)
- If the PC is broken down, Congress Main Unit enters the stand-alone state automatically, carrying out basic conference control, ensuring the consistency of the conference
- System power controllable by central control system

Controls and Indicators

- 2.8'' LCD displays status and menu of the system configuration, supporting multi-language menu
- Rotary control to navigate through the LCD menus
- Power switch
- Standby switch with indicator

Interconnections

- Multiple audio in/out interfaces:
  - ◆ One balanced XLR-F for microphone input or audio LINE IN
  - ◆ Two symmetrical RCA input interfaces for audio LINE IN
  - ◆ One balanced XLR-M for audio LINE OUT
  - ◆ Two symmetrical RCA output interfaces for audio LINE OUT
- RS232 port for connection to central control system
- Duplex SC single-mode optical fiber interface to combine two widely separated conference rooms and to operate as one unique coherent system
- 1 × RJ45 standard socket for connection to Ethernet interface (LAN)
- 2 × RJ45 standard socket (output) for connection with a Congress Extension Main Unit (EXTENSION)
- 2 × outlet (8P-DIN) trunk-line cable outlet
- Emergency signal interface: for connection to public emergency system.

Technical Specifications

Electrical

Frequency response	20 Hz to 20 kHz
SNR	≥100 dBA
Dynamic range	≥94 dB
Isolation	≥90 dB
THD	≤0.05%
Power supply	100 V - 240 V AC, 50/60 Hz
Consumption	20W
Load capacity	200W
RS232 connection	9-pole Sub-D female socket
Net connection	RJ45 socket

Max. audio inputs

LINE IN 1	+10 dBu, BAL.
LINE IN 2	+10 dBu, UNBAL.

Max. audio outputs

LINE OUT 1	+20 dBu, BAL.
LINE OUT 2	+20 dBu, UNBAL.

Mechanical

Mounting	Tabletop or mounted in a 19" rack
Dimensions (h × w × d)	
For table use, with feet	95 × 480 × 418 mm
For 19" rack use, with brackets	88 × 480 × 418 mm
Weight	7.8 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4800MA/20   Fully Digital Congress System Main Unit (discussion, voting, 64 CHs, single-mode optical fiber interface)

HCS-4800MB/20 Congress Main Unit

Features

- **Connectable to multi-channel audio input or output devices for versatile expansion of the system**
- **High system reliability guaranteed by "Closed Loop - Daisy Chain" connection topology**
- **Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between main unit(s) and congress units**
- **Supporting 48 kHz and 32 kHz audio sampling rate**
- **Built-in digital audio power amplifier for connecting loudspeaker**
- **Connection facility for an additional condenser or dynamic microphone, expanding user's application spectrum**
- **TCP/IP communication protocol in PC control**
- **Remote control and remote update**
- **Voting facilities without PC intervention**
- **Plug and play for all units**
- **Excellent immunity to RF interferences from mobile phones and comparable devices**
- **System power controllable by central control system**
- **2.8" LCD display for status information and configuration**
- **Rotary control to navigate through the LCD menus**
- **With web page control function, main unit's parameters can be set through web browser**
- **Emergency signal interface, all congress units will be switched off when it be activated**

The Congress Main Unit includes features for controlling delegate microphones and conducting voting sessions, without an operator.

In combination with a PC, the Congress Main Unit brings greater sophistication to conference control. Users are able to access an extensive range of software, each with a specific function in controlling and monitoring a conference, greatly expanding the capacity to manage a conference. In the event of PC failure, the Congress Main Unit will revert to its stand-alone operation mode, enabling the conference to proceed.

The Congress Main Unit also provides power supply to the Congress units.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units
- Embedded high performance DSP for audio signal processing, supporting 48 kHz audio sampling rate
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Integrated voice enhance and howling suppression function for each microphone to improve sound effects
- 2 audio line in or 1 audio line in + 1 microphone input: gain and EQ for each input adjustable separately, +24 V phantom power available at microphone input, a condenser microphone can be connected directly
- Built-in digital audio power amplifier for connecting loudspeaker
- Unit offers connection facilities to multi-channel audio input or output devices for versatile expansion of the system
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technology
- Adopted fully digital audio transmitting technology between the main units and congress units
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Set any delegate unit to be VIP unit, VIP unit can be activated as long as the total of active microphones is not beyond 8
- Connection facility for additional condenser microphones, expanding user's application spectrum (HCS-8600MIO series)
- If additional contribution units are connected for system expansion, additional Congress Extension Main Units HCS-8600MEA are required:
  - 4096 discussion or voting units
  - Any quantity of channel selectors
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Implemented features in stand-alone mode:
  - Set the number (1~8) of delegates permitted to speak at the same time
  - Set-up of speaking time limitation (1~240 minutes)
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Parliamentary voting (YES/NO/ABSTAIN)

- In combination with the corresponding software, more functions can be implemented:
  - ◆ Centralized microphone management
  - ◆ Multiform voting:
    - ・ For/Against
    - ・ Parliamentary: YES/NO/ABSTAIN
    - ・ Questionnaire: 1/2/3/4/5
    - ・ Audience response: --/-/0/+/++
    - ・ Parliamentary (NPPV): Yes/No/ABSTAIN/NPPV
    - ・ Appraisal:
      - ✧ Satisfied (four keys voting:
      perfectly satisfied/satisfied/basically satisfied/unsatisfied)
      - (three keys voting:
      satisfied/basically satisfied/unsatisfied)
      - (two keys voting: satisfied/unsatisfied)
      - ✧ Qualified (four/three/two keys voting)
      - ✧ Competent (four/three/two keys voting)
  - ◆ Several sign-in modes: entrance sign-in/seat sign-in
  - ◆ Depending on the purchased HCS-4800 software, user gains access to additional conference control & management functions
- Advanced TCP/IP communication protocol in PC controlled mode, easy to carry out remote control and remote update
- With web page control function, main unit's parameters can be set through web browser
- USB interface（Type-c）support digital audio transmission, mainstream conference software is adaptive
- Hot spare dual server structure: another Congress Main Unit is set up as backup Congress Main Unit and connected to the system and takes over automatically if the main Congress Main Unit fails
- Multi-room configuration: Congress Main Unit(s) can be used as Congress Extension Main Unit(s) to carry out multi-room configuration flexibly. Multiple Congress Main Unit configuration allows all connected multiple rooms to be operated either as one unique system or as independent systems
- Built-in unit detection facilities: detect the unit's LEDs and voting keys prior to start of the meeting
- Automatic recovery facility, supporting "PnP" (plug and play)
- If the PC is broken down, Congress Main Unit enters the stand-alone state automatically, carrying out basic conference control, ensuring the consistency of the conference
- System power controllable by central control system

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi-language menu
- Rotary control to navigate through the LCD menus
- Power switch
- Standby switch with indicator

Interconnections

- Multiple audio in/out interfaces:
  - ◆ One balanced XLR-F for microphone input or audio LINE IN
  - ◆ Two symmetrical RCA input interfaces for audio LINE IN
  - ◆ One balanced XLR-M for audio LINE OUT
  - ◆ Two symmetrical RCA output interfaces for audio LINE OUT
- Output power of PA .... 2×160 W (8 Ω)
  2×200 W (4 Ω)

- RS232 port for connection to central control system
- 1 × RJ45 standard socket for connection to Ethernet interface (LAN)
- 2 × RJ45 standard socket (output) for connection with a Congress Extension Main Unit (EXTENSION)
- 2 × outlet (8P-DIN) trunk-line cable outlet
- Emergency signal interface: for connection to public emergency system.

Technical Specifications

Electrical

Frequency response	20 Hz to 20 kHz
SNR	≥100 dBA
Dynamic range	≥94 dB
Isolation	≥90 dB
THD	≤0.05%
Power supply	100 V - 240 V AC, 50/60 Hz
Consumption	20W
Load capacity	200W
RS232 connection	9-pole Sub-D female socket
Net connection	RJ45 socket

Max. audio inputs

LINE IN 1	+10 dBu, BAL.
LINE IN 2	+10 dBu, UNBAL.

Max. audio outputs

LINE OUT 1	+20 dBu, BAL.
LINE OUT 2	+20 dBu, UNBAL.

Mechanical

Mounting	Tabletop or mounted in a 19" rack
Dimensions (h × w × d)	
For table use, with feet	95 × 480 × 418 mm
For 19" rack use, with brackets	88 × 480 × 418 mm
Weight	7.8 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4800MB/20 .... Fully Digital Congress System Main Unit (discussion, voting, built-in PA)

HCS-4800MC/20 Congress Main Unit

Features

- **Connectable to multi-channel audio input or output devices for versatile expansion of the system**
- **High system reliability guaranteed by "Closed Loop - Daisy Chain" connection topology**
- **Proprietary MCA-STREAM 2.0 technology used to transmit fully digital audio between main unit(s) and congress units**
- **Supporting 48 kHz and 32 kHz audio sampling rate**
- **Connection facility for an additional condenser or dynamic microphone, expanding user's application spectrum**
- **TCP/IP communication protocol in PC control**
- **Remote control and remote update**
- **Voting facilities without PC intervention**
- **Plug and play for all units**
- **Excellent immunity to RF interferences from mobile phones and comparable devices**
- **System power controllable by central control system**
- **2.8" LCD display for status information and configuration**
- **Rotary control to navigate through the LCD menus**
- **With web page control function, main unit's parameters can be set through web browser**
- **Emergency signal interface, all congress units will be switched off when it be activated**

The Congress Main Unit includes features for controlling delegate microphones and conducting voting sessions, without an operator.

In combination with a PC, the Congress Main Unit brings greater sophistication to conference control. Users are able to access an extensive range of software, each with a specific function in controlling and monitoring a conference, greatly expanding the capacity to manage a conference. In the event of PC failure, the Congress Main Unit will revert to its stand-alone operation mode, enabling the conference to proceed.

The Congress Main Unit also provides power supply to the Congress units.

Functions

- Compliant to ISO 22259
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units
- Embedded high performance DSP for audio signal processing, supporting 48 kHz audio sampling rate
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Integrated voice enhance and howling suppression function for each microphone to improve sound effects
- 2 audio line in or 1 audio line in + 1 microphone input: gain and EQ for each input adjustable separately, +24 V phantom power available at microphone input, a condenser microphone can be connected directly
- Unit offers connection facilities to multi-channel audio input or output devices for versatile expansion of the system
- Based on TAIDEN MCA-STREAM 2.0 digital audio processing and transmitting technology
- Adopted fully digital audio transmitting technology between the main units and congress units
- An ID can be assigned by default or manually to each conference unit bearing a unique serial number for convenient maintenance
- Set any delegate unit to be VIP unit, VIP unit can be activated as long as the total of active microphones is not beyond 8
- Connection facility for additional condenser microphones, expanding user's application spectrum (HCS-8600MIO series)
- If additional contribution units are connected for system expansion, additional Congress Extension Main Units HCS-8600MEA are required:
  - 4096 discussion or voting units
  - Any quantity of channel selectors
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Implemented features in stand-alone mode:
  - Set the number (1/2/3/4) of delegates permitted to speak at the same time
  - Set-up of speaking time limitation (1~240 minutes)
  - Speak mode: Open/Override/Voice/Request/PTT
    - "Open" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "Override" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "Voice" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "Request" mode, delegate requests to speak by pressing microphone On/Off button, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - Parliamentary voting (YES/NO/ABSTAIN)

- In combination with the corresponding software, more functions can be implemented:
  - ◆ Centralized microphone management
  - ◆ Multiform voting:
    - ・ For/Against
    - ・ Parliamentary: YES/NO/ABSTAIN
    - ・ Questionnaire: 1/2/3/4/5
    - ・ Audience response: --/-/0/+/++
    - ・ Parliamentary (NPPV): Yes/No/ABSTAIN/NPPV
    - ・ Appraisal:
      - ✧ Satisfied (four keys voting: perfectly satisfied/satisfied/basically satisfied/unsatisfied)
        (three keys voting: satisfied/basically satisfied/unsatisfied)
        (two keys voting: satisfied/unsatisfied)
      - ✧ Qualified (four/three/two keys voting)
      - ✧ Competent (four/three/two keys voting)
  - ◆ Several sign-in modes: entrance sign-in/seat sign-in
  - ◆ Depending on the purchased HCS-4800 software, user gains access to additional conference control & management functions
- Advanced TCP/IP communication protocol in PC controlled mode, easy to carry out remote control and remote update
- With web page control function, main unit's parameters can be set through web browser
- USB interface（Type-c）support digital audio transmission, mainstream conference software is adaptive
- Hot spare dual server structure: another Congress Main Unit is set up as backup Congress Main Unit and connected to the system and takes over automatically if the main Congress Main Unit fails
- Multi-room configuration: Congress Main Unit(s) can be used as Congress Extension Main Unit(s) to carry out multi-room configuration flexibly. Multiple Congress Main Unit configuration allows all connected multiple rooms to be operated either as one unique system or as independent systems
- Built-in unit detection facilities: detect the unit's LEDs and voting keys prior to start of the meeting
- Automatic recovery facility, supporting "PnP" (plug and play)
- If the PC is broken down, Congress Main Unit enters the stand-alone state automatically, carrying out basic conference control, ensuring the consistency of the conference
- System power controllable by central control system

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi-language menu
- Rotary control to navigate through the LCD menus
- Power switch
- Standby switch with indicator

Interconnections

- Multiple audio in/out interfaces:
  - ◆ One balanced XLR-F for microphone input or audio LINE IN
  - ◆ Two symmetrical RCA input interfaces for audio LINE IN
  - ◆ One balanced XLR-M for audio LINE OUT
  - ◆ Two symmetrical RCA output interfaces for audio LINE OUT
- RS232 port for connection to central control system

- 1 × RJ45 standard socket for connection to Ethernet interface (LAN)
- 2 × RJ45 standard socket (output) for connection with a Congress Extension Main Unit (EXTENSION)
- 2 × outlet (8P-DIN) trunk-line cable outlet
- Emergency signal interface: for connection to public emergency system.

Technical Specifications

Electrical

Frequency response	20 Hz to 20 kHz
SNR	≥100 dBA
Dynamic range	≥94 dB
Isolation	≥90 dB
THD	≤0.05%
Power supply	100 V - 240 V AC, 50/60 Hz
Consumption	20W
Load capacity	200W
RS232 connection	9-pole Sub-D female socket
Net connection	RJ45 socket

Max. audio inputs

LINE IN 1	+10 dBu, BAL.
LINE IN 2	+10 dBu, UNBAL.

Max. audio outputs

LINE OUT 1	+20 dBu, BAL.
LINE OUT 2	+20 dBu, UNBAL.

Mechanical

Mounting	Tabletop or mounted in a 19" rack
Dimensions (h × w × d)	
For table use, with feet	95 × 480 × 418 mm
For 19" rack use, with brackets	88 × 480 × 418 mm
Weight	7.8 kg
Color	Black (PANTONE 419 C)

Ordering Information

HCS-4800MC/20	Fully Digital Congress System Main Unit (discussion, voting)

HCS-8600 and HCS-4800 series main unit function table

Type	Discussion	Vote	LCD	64CHs	Microphone team output	Fiber optic interface	Dante interface	AES/EBU digital input/output interface	HDMI interface	USB record	Build-in PA
HCS-8600MA/20	√	√	√	√	√	√	√	√			
HCS-8600MBU/20	√	√	√	√	√	√			√	√	
HCS-8600MB/20	√	√	√	√	√	√					
HCS-4800MA/20	√	√	√	√		√					
HCS-4800MB/20	√	√	√								√
HCS-4800MC/20	√	√	√								

■ In HCS-4800 series fully digital congress system, power is provided by HCS-4800M or HCS-8600MEA or HCS-8600EMS for all congress units. Thus, the total number of system units in any installation is limited by the maximum power handling capacity and control capacity of the HCS-4800M or HCS-8600MEA or HCS-8600EMS. It must be ensured that, during the installation, the sum of the total power consumption of all the congress units connected to every single 8P-DIN interface plus the power loss in the extension cables does not surpass the power limit of each 8P-DIN interface. Otherwise the system will not work properly or automatic protection will occur. Refer to table below for maximum load capability.

Table 5.1.1　Quick lookup table of HCS-8600M CMU/EMU load capability (each outlet)

Type	Type No.	The extension cable length between the CMU(EMU) and the first Congress Unit connected to the socket			
		20 m	40 m	60 m	80 m
Equipped with 6.8" LCD, speaker and microphone	HCS-8685/80	9	8	7	7
Equipped with 4.3" LCD, speaker and microphone	HCS-4890N/80	9	9	9	8
Equipped with 4.3" LCD, Microphone(mute the speaker)	HCS-4890N/80	20	18	16	15
Equipped with 4.3" LCD, speaker and microphone	HCS-4890N/FM/80	9	9	9	8
Equipped with 4.3" LCD, Microphone(mute the speaker)	HCS-4890N/FM/80	20	18	16	15
Equipped with 4.3" LCD, microphone	HCS-4891/80	25	23	20	18
Equipped with OLED, microphone	HCS-4860/80	31	31	30	29
Equipped with OLED, microphone	HCS-4813/HCS-4815	33	32	31	29
Equipped with OLED, speaker and microphone	HCS-4838/80	14	14	13	13
Equipped with OLED, Microphone(mute the speaker)	HCS-4838/80	33	31	31	30
Equipped with OLED, microphone	HCS-48U6/80 series Microphone +Voting + SI +speaker	14	13	12	12
Equipped with OLED, microphone,with out the speaker	HCS-48U6/80 series Microphone +Voting + SI	25	25	25	25
Microphone	HCS-48U6MICM/80	25	25	25	25
Speaker and microphone	HCS-48U7M/80	13	12	12	12
Microphone (mute the speaker)	HCS-48U7M/80	25	25	25	25
Equipped with OLED" speaker and microphone	HCS-48U10/80	14	13	12	12
Equipped with 10" LCD, speaker and microphone	HCS-8635	7	7	6	6
Channel selector, microphone	HCS-4825+HCS-4827H	25	24	20	17
Equipped with OLED, microphone	HCS-4827SELM+HCS-4827H	25	25	23	20
Lift Microphone	HCS-4857	25	25	25	25
Voting unit	HCS-4868/4869	50	50	48	46
Voting unit	HCS-48U6DVOTTM/80	25	25	25	25

***Note:**

☞　Including the speaker model, the load data is the measured when the speaker volume is set to the maximum;

☞　HCS-4857 is powered by an adapter, every connection of congress terminals should less than 25.

☞　If the length of an extension cable is from 80 m to 160 m, Cable Splitter HCS-4852T(N) is needed. (Cable splitter is used as repeater only and cannot improve load capability.);

Table 5.1.4 Quick lookup table of HCS-8600MES load capability

Type	Type No.	The extension cable length between the CMU(EMU) and the first Congress Unit connected to the socket			
		20 m	40 m	60 m	80 m
Equipped with 6.8" LCD, speaker and microphone	HCS-8685	9	8	7	7
Equipped with 4.3" LCD, speaker and microphone	HCS-4890N/80	9	9	9	8
Equipped with 4.3" LCD, Microphone(mute the speaker)	HCS-4890N/80	20	18	16	15
Equipped with 4.3" LCD, speaker and microphone	HCS-4890N/FM/80	9	9	9	8
Equipped with 4.3" LCD, Microphone(mute the speaker)	HCS-4890N/FM/80	20	18	16	15
Equipped with 4.3" LCD, microphone	HCS-4891/80	25	23	20	18
Equipped with OLED, microphone	HCS-4860/80	31	31	30	29
Equipped with OLED, microphone	HCS-4813/HCS-4815	33	32	31	29
Equipped with OLED, speaker and microphone	HCS-4838/80	14	14	13	13
Equipped with OLED, Microphone(mute the speaker)	HCS-4838/80	33	31	31	30
Equipped with OLED, microphone	HCS-48U6/80 series Microphone +Voting + SI +speaker	14	13	12	12
Equipped with OLED, microphone,with out the speaker	HCS-48U6/80 series Microphone +Voting + SI	25	25	25	25
Microphone	HCS-48U6MICM/80	25	25	25	25
Speaker and microphone	HCS-48U7M/80	13	12	12	12
Microphone (mute the speaker)	HCS-48U7M/80	25	25	25	25
Equipped with OLED" speaker and microphone	HCS-48U10/80	14	13	12	12
Equipped with 10" LCD, speaker and microphone	HCS-8635	7	7	6	6
Channel selector, microphone	HCS-4825+HCS-4827H	25	24	20	17
Equipped with OLED, microphone	HCS-4827SELM+HCS-4827H	25	25	23	20
Lift Microphone	HCS-4857	25	25	25	25
Voting unit	HCS-4868/4869	45	45	43	42
Voting unit	HCS-48U6DVOTTM/80	25	25	25	25

*Note:

☞   Including the speaker model, the load data is the measured when the speaker volume is set to the maximum;

☞   HCS-4857 is powered by an adapter, every connection of congress terminals should less than 25.

☞   If the length of an extension cable is from 80 m to 160 m, Cable Splitter HCS-4852T(N) is needed. (Cable splitter is used as repeater only and cannot improve load capability.);

HCS-4800WS/MC Web Software for Microphone Control
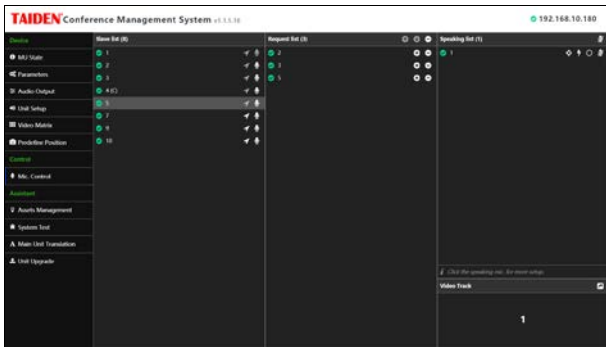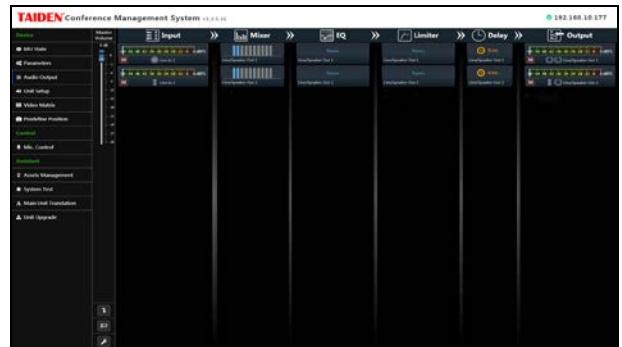

Functions

Microphone real-time monitoring and control, auto video tracking and other functions.

- **Microphone control:**
  - ♦ Turn on/off microphone, flashing /turn off microphone control interface, video tracking microphone;
  - ♦ Speak and request list: display delegate's information of opening and requesting microphones, turn off microphone(s), agreed/deny speak request and other operations;
- **Unit setting :**
  - ♦ Setting unit parameters, delegate identity/ permissions, device(s) information details;
  - ♦ Setting language of congress unit;
  - ♦ Turn on/off ambient microphone;

Ordering Information

HCS-4800WS/MC⋯⋯⋯⋯Web Software for Microphone Control

# HCS-4800WS/AO Web Software for Audio Output

Functions

Build-in audio processor in main unit, input and output parameters can be

adjust independently.

- Adjust gain and balance (5) for each microphone, adjust volume and frequency response to perfect effect.
- 2 audio line input or 1 audio line output +1 microphone input, gain and EQ for each input can be adjust independently, +48V phantom power supply at microphone input, connect to condenser microphone directly
- 2 outputs, 31 GEQ+ pressure limiter+ delay device, EQ setting included narrow band, normal and wide band
- Real-time input/output level display
- Three frequency modes: normal, teleconferencing and external processor
- Support scenes saving for quick switch and use
- Support multi-function audio input and output, system extension flexibly

Ordering Information

HCS-4800WS/AO⋯⋯⋯⋯Web Software for Audio Output

HCS-4800WS/VT Web Software for Video Track
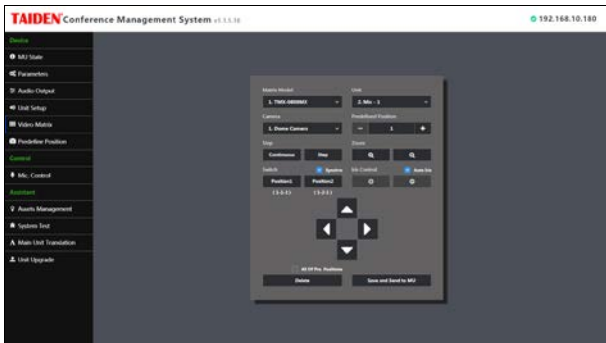
Video Tracking: Cooperate with camera and video switchers to realized auto video tracking function, including:

■ Video Matrix: Base on video device and video switch connection, offer input and output channels for computer signal, camera(s) and other video(s)

■ Video Switch: Base on video matrix setting to switch signal input and output

■ Predefine Position: Setting and adjusting predefine position

■ Panorama Control: Filming the conference room by controlled camera(s)

Ordering Information

HCS-4800WS/VT   Web Software for Video Track