

Simultaneous Interpretation System



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HCS-5100R/B Digital Infrared Receivers



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- Independent intellectual property chipset for digital infrared processor, and DQPSK digital modulation/demodulation technology
- Transmitting in 1~8 MHz frequency band eliminates disturbance from high frequency lighting systems
- Channel selection via up/down button, at most 4, 8, 16, 32 or 40 channels available
- Back-lighting LCD display with channel number, language name, battery and signal status indication
- Number of available channels is always the same as the number of channels in use by the system, eliminating the need to scroll through unused channels
- Adjustable volume
- Unique 270° super wide reception angle, ensuring perfect sound quality even when casually placed
- Audio signal automatically muted when signal is too low, ensuring that the user receives only high quality audio
- Ergonomically compact and elegant design
- Lightweight and handy receiver in conjunction with headphone (HCS-5100PA) for easy and comfortable use
- Can be hung over the neck via a nice strap or fit into the shirt pocket
- Freedom of movement within the range of IR power radiator
- No limit to the receiver number within the IR power radiation range
- Works without errors, even in bright sunlight
- Built-in high precision rechargeable circuitry to prolong battery life
- Can be used with disposable batteries (2xAA alkaline batteries, not included) or environmentally-friendly Li-ion rechargeable battery pack (not included)
- No power consumption when headphone is disconnected
- Measurement mode for easy checking of radiator coverage
- One USB Type-C interface for upgrade and charging
- Can work with HCS-5300/80 New Generation Digital Infrared Wireless Conference System and achieve up to 1+7 channels infrared wireless simultaneous interpretation

HCS-5100R/B is a series of infrared receiver, which can receive up to 40 language channels. Both rechargeable Li-ion battery and disposable battery can be used. The receiver is equipped with channel selector, volume control, power switch, Ø 3.5 mm stereo earphone jack, and charging circuit on the PCB. A LCD displays channel number with language name, received signal intensity, battery capacity and volume.

Controls and Indicators

- LCD displays channel number, language name, battery capacity, signal intensity and volume
- Power switch
- Channel selector buttons
- Volume control buttons

Interconnections

- Ø 3.5 mm stereo earphone jack
- Charging contacts
- USB Type-C interface

Technical Specifications

System Specifications

Modulation.....	DQPSK
Modulation frequency.....	1 to 8 MHz
	Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603-7
Frequency response.....	20 Hz to 10 kHz (-3 dB) at standard quality;
	20 Hz to 20 kHz (-3 dB) at perfect quality
THD at 1 kHz.....	≤0.05%
Isolation.....	≥85 dB
Dynamic range.....	≥90 dB
Weighted SNR.....	≥85 dBA

Electrical

IR irradiance level.....	4 mW/m ² per carrier
Angle of sensitivity.....	270°
Headphone output level at 3.0 V.....	450 mVrms (speech at maximum volume, 32 Ohm headphone)
Headphone output freq. range.....	20 Hz to 20 kHz
Headphone output impedance.....	32 Ohm to 2 kOhm
Max. SNR.....	≥85 dBA
Supply voltage.....	2.5 V to 4.2 V, nominal 3.0 V
Power consumption	
Normal (at 3.0 V).....	38 mA (32 Ohm headphone)
Headphone jack unplugged.....	0 mA
Battery life	
2xAA alkaline cells.....	55 hours
Rechargeable battery pack.....	42 hours

Mechanical

Dimensions h x w x d (mm).....	155 x 46 x 24
Weight	
Excl. batteries.....	70 g
Incl. HCS-5100BAT-Li.....	115 g
Color.....	Black (PANTONE 419 C)

Ordering Information

- HCS-5100R/04B.....4 CHs Digital Infrared Receiver
(LCD, language display, cooperates with HCS-5300/80 series can achieve 4 CHs simultaneous audit, optional rechargeable battery pack or 2xAA alkaline cells, with USB Type-C port, excl. battery, black)

- HCS-5100R/08B.....8 CHs Digital Infrared Receiver
(LCD, language display, cooperates with HCS-5300/80 series can achieve 8 CHs simultaneous audit, optional rechargeable battery pack or 2xAA alkaline cells, with USB Type-C port, excl. battery, black)

- HCS-5100R/16B.....16 CHs Digital Infrared Receiver
16 CHs Digital Infrared Receiver (LCD, language display, cooperates with HCS-5300/80 series can achieve 8 CHs simultaneous audit, optional rechargeable battery pack or 2xAA alkaline cells, with USB Type-C port, excl. battery, black)

- HCS-5100R/32B.....32 CHs Digital Infrared Receiver
(LCD, language display, cooperates with HCS-5300/80 series can achieve 8 CHs simultaneous audit, optional rechargeable battery pack or 2xAA alkaline cells, with USB Type-C port, excl. battery, black)

- HCS-5100R/40B.....40 CHs Digital Infrared Receiver
(LCD, language display, cooperates with HCS-5300/80 series can achieve 8 CHs simultaneous audit, optional rechargeable battery pack or 2xAA alkaline cells, with USB Type-C port, excl. battery, black)

HCS-5100R/F Digital Infrared Receivers



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- Independent intellectual property chipset for digital infrared processor, and DQPSK digital modulation/demodulation technology
- Transmitting in 1~8 MHz frequency band eliminates disturbance from high frequency lighting systems
- Channel selection via up/down button, at most 4, 8, 16, 32 or 40 channels available
- Back-lighting LCD display with channel number, language name, battery and signal status indication
- Number of available channels is always the same as the number of channels in use by the system, eliminating the need to scroll through unused channels
- Adjustable volume
- Unique 270° super wide reception angle, ensuring perfect sound quality even when casually placed
- Audio signal automatically muted when signal is too low, ensuring that the user receives only high quality audio
- Ergonomically compact and elegant design
- Lightweight and handy receiver in conjunction with headphone (HCS-5100PA) for easy and comfortable use
- Can be hung over the neck via a nice strap or fit into the shirt pocket
- Freedom of movement within the range of IR power radiator
- No limit to the receiver number within the IR power radiation range
- Works without errors, even in bright sunlight
- Built-in high precision rechargeable circuitry to prolong battery life
- Can be used with disposable batteries (2xAA alkaline batteries, not included) or environmentally-friendly Li-ion rechargeable battery pack (not included)
- No power consumption when headphone is disconnected
- Measurement mode for easy checking of radiator coverage
- Can work with HCS-5300/80 new generation digital infrared wireless conference system and achieve up to 1+7 channels infrared wireless simultaneous interpretation

HCS-5100R/F is a series of infrared receiver, which can receive up to 40 language channels. Both rechargeable Li-ion battery and disposable battery can be used. The receiver is equipped with channel selector, volume control, power switch, Ø 3.5 mm stereo earphone jack, and charging circuit on the PCB. A LCD displays channel number with language name, received signal intensity, battery capacity and volume.

Controls and Indicators

- LCD displays channel number, language name, battery capacity, signal intensity and volume
- Power switch
- Channel selector buttons
- Volume control buttons

Interconnections

- Ø 3.5 mm stereo earphone jack
- Charging contacts

Technical Specifications

System Specifications

Modulation.....	DQPSK
Modulation frequency.....	1 to 8 MHz
	Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603-7
Frequency response.....	20 Hz to 10 kHz (-3 dB) at standard quality;
	20 Hz to 20 kHz (-3 dB) at perfect quality
THD at 1 kHz.....	≤0.05%
Isolation.....	≥85 dB
Dynamic range.....	≥90 dB
Weighted SNR.....	≥85 dBA

Electrical

IR irradiance level.....	4 mW/m ² per carrier
Angle of sensitivity.....	270°
Headphone output level at 3.0 V..._	450 mVrms (speech at maximum
	volume, 32 Ohm headphone)
Headphone output freq. range.....	20 Hz to 20 kHz
Headphone output impedance.....	32 Ohm to 2 kOhm
Max. SNR.....	≥85 dBA
Supply voltage.....	2.5 V to 4.2 V, nominal 3.0 V
Power consumption	
Normal (at 3.0 V).....	38 mA (32 Ohm headphone)
Headphone jack unplugged.....	0 mA
Battery life	
2xAA alkaline cells.....	55 hours
Rechargeable battery pack.....	42 hours

Mechanical

Dimensions h x w x d (mm)..... 155 x 46 x 24

Weight

Excl. batteries..... 70 g

Incl. HCS-5100BAT-Li..... 115 g

Color..... Black (PANTONE 419 C)

White (PANTONE Cool Gray 1 C)

Ordering Information

HCS-5100R/04F..... 4 CHs Digital Infrared Receiver (LCD, language display, cooperates with HCS-5300/80 series can achieve 4 CHs simultaneous audit, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, black)

HCS-5100R/08F..... 8 CHs Digital Infrared Receiver (LCD, language display, cooperates with HCS-5300/80 series can achieve 4 CHs simultaneous audit, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, black)

HCS-5100R_W/08F..... 8 CHs Digital Infrared Receiver (LCD, language display, cooperates with HCS-5300/80 series can achieve 4 CHs simultaneous audit, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, white)

HCS-5100R/16F..... 16 CHs Digital Infrared Receiver (LCD, language display, cooperates with HCS-5300/80 series can achieve 4 CHs simultaneous audit, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, black)

HCS-5100R/40F..... 40 CHs Digital Infrared Receiver (LCD, language display, cooperates with HCS-5300/80 series can achieve 4 CHs simultaneous audit, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, black)

HCS-5100RA/F Digital Infrared Receivers



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- Independent intellectual property chipset for digital infrared processor, and DQPSK digital modulation/demodulation technology
- Transmitting in 1~8 MHz frequency band eliminates disturbance from high frequency lighting systems
- Channel selection via up/down button, at most 4 or 8 channels available
- Back-lighting LCD display with channel number, language name, battery and signal status indication
- Number of available channels is always the same as the number of channels in use by the system, eliminating the need to scroll through unused channels
- Adjustable volume
- Unique 270° super wide reception angle, ensuring perfect sound quality even when casually placed
- Audio signal automatically muted when signal is too low, ensuring that the user receives only high quality audio
- Ergonomically compact and elegant design
- Lightweight and handy receiver in conjunction with headphone (HCS-5100PA) for easy and comfortable use
- Can be hung over the neck via a nice strap or fit into the shirt pocket
- Freedom of movement within the range of IR power radiator
- No limit to the receiver number within the IR power radiation range
- Works without errors, even in bright sunlight
- Used with disposable batteries (2xAA alkaline batteries, not included)
- No power consumption when headphone is disconnected
- Measurement mode for easy checking of radiator coverage
- Can work with HCS-5300/80 new generation digital infrared wireless conference system and achieve up to 1+7 channels infrared wireless simultaneous interpretation

HCS-5100RA/F is a series of infrared receiver, which can receive up to 40 language channels, only for disposable battery. The receiver is equipped with channel selector, volume control, power switch, Ø 3.5 mm stereo earphone jack. A LCD displays channel number with language name, received signal intensity, battery capacity and volume.

Controls and Indicators

- LCD displays channel number, language name, battery capacity, signal intensity and volume
- Power switch
- Channel selector buttons
- Volume control buttons

Interconnections

- Ø 3.5 mm stereo earphone jack

Technical Specifications

System Specifications

Modulation.....	DQPSK
Modulation frequency.....	1 to 8 MHz
	Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603-7
Frequency response.....	20 Hz to 10 kHz (-3 dB) at standard quality;
	20 Hz to 20 kHz (-3 dB) at perfect quality
THD at 1 kHz.....	≤0.05%
Isolation.....	≥85 dB
Dynamic range.....	≥90 dB
Weighted SNR.....	≥85 dBA

Electrical

IR irradiance level.....	4 mW/m ² per carrier
Angle of sensitivity.....	270°
Headphone output level at 3.0 V...450 mVrms (speech at maximum volume, 32 Ohm headphone)	
Headphone output freq. range.....	20 Hz to 20 kHz
Headphone output impedance.....	32 Ohm to 2 kOhm
Max. SNR.....	≥85 dBA
Supply voltage.....	2.5 V to 4.2 V, nominal 3.0 V
Power consumption	
Normal (at 3.0 V).....	38 mA (32 Ohm headphone)
Headphone jack unplugged.....	0 mA
Battery life.....	55 hours

Mechanical

Dimensions h x w x d (mm).....	155 x 46 x 24
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Weight

Excl. batteries.....	70 g
Color.....	Black (PANTONE 419 C)
	White (PANTONE Cool Gray 1 C)

Ordering Information

HCS-5100RA/04F.....4 CHs Digital Infrared Receiver
(LCD, language display, 2xAA
alkaline cells, black)

HCS-5100RA/08F.....8 CHs Digital Infrared Receiver
(LCD, language display, 2xAA
alkaline cells, black)

HCS-5100T/25B Digital Infrared Radiator



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- Standby indication, working indication, failure indication
- Installation: fixed up by bracket or tripod (various mounting methods supported), 13 radiation angles
- Half-transmitting angle : $\pm 22^\circ$
- Emission power: 25 W
- Power consumption: 62 W
- Maximum radiation range: 50 meters
- Synchronization ON/OFF with transmitter
- Automatic gain control
- Temperature control: if temperature is too high, control switches to half-power with LED indication
- Manual half-power switch on the rear, convenient for small conferences
- Delay compensation for differences in cable lengths between transmitter and radiators

The radiator receives carrier signals generated by the transmitter and emits infrared radiation, carrying up to 40 audio distribution channels. Radiators are connected to the HF (BNC) connectors of the IR transmitter. A maximum of 30 daisy chained radiators can be connected to each output.

Controls and Indicators

- Power indicator
- Temperature protection indicator
- Input signal indicator
- Fault indicator
- Output power switch
- Delay compensation indicator
- Delay compensation buttons (-/+)

Interconnections

- HF input and output connectors (2 x BNC) for connection to transmitter and loop-through to other radiators

Technical Specifications

Electrical and optical

Modulation	DQPSK, according to IEC 61603-7
Modulation frequency	1 to 8 MHz
	Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603-7
Angle of half intensity	$\pm 22^\circ$
HF input/output	75 Ohm
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	62 W
Power consumption (standby)	3 W

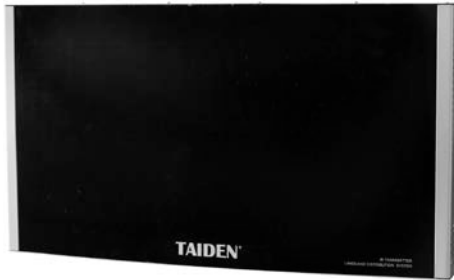
Mechanical

Mounting	Suspension bracket for direct ceiling mounting; mounting plates for floor stands; wall mounting bracket HCS-5100TBZJ can be used for fixing radiator to wall surfaces
Dimensions h x w x d (mm)	212 x 448 x 110
Weight	3.1 kg
Front color	Dark Red (PANTONE 476 C)

Ordering Information

HCS-5100T/25B	25W Digital Infrared Radiator (delay compensation function, 75 Ω , switching mode power supply, without fan)
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HCS-5100T/35B Digital Infrared Radiator



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- Standby indication, working indication, failure indication
- Installation: fixed up by bracket or tripod (various mounting methods supported), 13 radiation angles
- Half-transmitting angle: $\pm 22^\circ$
- Emission power: 35 W
- Power consumption: 120 W
- Maximum radiation range: 97 meters
- Synchronization ON/OFF with transmitter
- Automatic gain control
- Temperature control: if temperature is too high, control switches to half-power with LED indication
- Manual half-power switch on the rear, convenient for small conferences
- Delay compensation for differences in cable lengths between transmitter and radiators

The radiator receives carrier signals generated by the transmitter and emits infrared radiation, carrying up to 40 audio distribution channels. Radiators are connected to the HF (BNC) connectors of the IR transmitter. A maximum of 30 daisy chained radiators can be connected to each output.

Controls and Indicators

- Power indicator
- Temperature protection indicator
- Input signal indicator
- Fault indicator
- Output power switch
- Delay compensation indicator
- Delay compensation buttons (-/+)

Interconnections

- HF input and output connectors (2 x BNC) for connection to transmitter and loop-through to other radiators

Technical Specifications

Electrical and optical

Modulation.....	DQPSK, according to IEC 61603-7
Modulation frequency.....	1 to 8 MHz
	Carriers 0 to 5: 2 to 6 MHz, according to IEC 61603-7
Angle of half intensity.....	$\pm 22^\circ$
HF input/output.....	75 Ohm
Power supply.....	AC 100 V -240 V 50/60 Hz
Power consumption.....	120 W
Power consumption (standby).....	3 W

Mechanical

Mounting.....	Suspension bracket for direct ceiling mounting or wall mounting; mounting plates for floor stands
Dimensions h x w x d (mm).....	272 x 498 x 110
Weight.....	4.2 kg
Front color.....	Dark Red (PANTONE 476 C)

Ordering Information

HCS-5100T/35B.....	35W Digital Infrared Radiator (delay compensation function, 75 Ω , switching mode power supply, without fan)
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HCS-5100TBZJ Wall-Mounting Bracket



Features

- Wall mounting bracket, can be used for fixing radiator to wall surface

Technical Specifications

Mechanical

Dimensions h x w x d (mm).....203x 200 x 285
Weight.....1.6 kg
Color.....Silver

Ordering Information

HCS-5100TBZJ.....Wall-Mounting Bracket

HCS-8685/80 64-Channel Simultaneous Interpreter Unit



Features

- **User-centered design: incorporating most recent requirements from conference interpreters (at European Institutions, the United Nations, ...)**
- **“Closed Loop - Daisy Chain” connection topology**
- **Accommodates up to 64 interpretation channels (incl. floor channel)**
- **Audio quality: supporting 48 kHz audio sampling rate, 20 Hz to 20 kHz frequency response on all 64 channels**
- **Excellent immunity to RF interference from mobile phones**
- **Ergonomic design with features for visually impaired**
- **6.8" TFT LCD for high quality display**
- **7 pre-select buttons (1/2/3/4/5/6/7) for relay languages with activation indication on the LCD**
- **Adjustable Gain and low cut for the activated microphone**
- **Supports 3.5 mm headset with CTIA standard**
- **Hearing protection**
- **Braille is present for all physical buttons**
- **Supporting “PnP” (plug and play)**
- **Mobile messaging integration: lead interpreter can send text messages from a mobile phone to all Interpreter Units via Bluetooth**

HCS-8685/80 Interpreter Unit provides up to 64 CHs language channels. It is composed of a 6.8" TFT LCD, built-in 64 CHs channel selector and loudspeaker, pluggable stem microphone and headphone/microphone jacks. LCD can display channel number, language name, input language, quality indication and short message, etc. It can display a) the audience status of the output channel, including how many people are listening to the output channel from wired language distribution system, b) if the output channel is monitored by the infrared language distribution system (HCS-5100 system), and c) if the output channel is recording. In addition, the signal level of the input channel can be displayed in real time. Interpreter Unit's connection cable is compatible with the trunk-line cable, thus Interpreter Units can be easily added to system in place.

It provides two operation modes: normal interpretation and relay interpretation with auto-relay.

Functions

- User-centered design: incorporating most recent requirements from conference interpreters (at European Institutions, the United Nations, ...)
- Compliant to ISO 20109
- Fully digital audio technology
- "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
- Automatic system recovery and “PnP” (plug and play)
- Accommodates up to 64 interpretation channels (incl. floor channel)
- Audio quality: supporting 48 kHz audio sampling rate, 20 Hz to 20 kHz frequency response on all 64 channels
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Direct and relay interpretation available
- Auto relay interpretation facility
- Presets language name either by the main unit or the application software
- Gain and low cut of the activated microphone can be adjustable by the main unit or the application software
- Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* type and MS**E type stem microphone
- Microphone can be unplugged during adjournment, easy to maintain
- Automatic feedback prevention when listening to own interpretation
- Hearing protection: When headphones level exceeds a preset value, a floating window will be triggered to alert
- Built-in loudspeaker with volume control. If all microphones in the same booth are off, the loudspeaker will play floor language or interpretation channel
- Channel interlock function permits only one microphone on a channel to be activated at any time, ensuring the uniqueness of language channels
- Three necessary modes between interpreter booths:
 - Interlock: blocks another interpreter from using the same channel in another interpreter booth.
 - Override: allows an interpreter to override another interpreter in another interpreter booth supplying the same interpretation channel.
 - BC-Override: allows B/C channel of an interpreter in a booth to override an occupied A channel in another booth, but supplying the same channel.
- Two necessary modes within one interpreter booth: Interlock and Override
- A maximum of six interpreter units can be installed in each booth
- Mobile messaging integration: lead interpreter can send text messages from a mobile phone to all Interpreter Units via Bluetooth
- Password function available: System manager could set password for authorization of changing interpreter unit setting, so as to avoid random alteration

Controls and Indicators

- 6.8" TFT LCD high quality display:
 - Unit configuration information
 - Incoming/outgoing channel number and language name
 - Channel number and language name of loudspeaker output
 - Incoming language indication
 - ◆ If the monitoring language comes from the original floor channel, "FLOOR" is displayed on the corresponding language channel
 - ◆ If the monitoring language comes from the direct interpretation channel of the floor language, "+" is displayed
 - ◆ If the monitoring language comes from the indirect interpretation channel of the floor language, "-" is displayed
 - ◆ If the monitoring language comes from the indirect interpretation channel of an interpretation language, "--" is displayed
 - ◆ If the monitoring language comes from the output interpretation channel of current interpreter unit, "X" is displayed
 - ◆ Note: the indication means to remind the interpreters to avoid using the relay interpretation as often as possible if the direct interpretation is available
 - The audio stream status of the output channel: recording/monitoring by the infrared language distribution system
 - How many people are listening to the output channel
 - Short messages (administrator can send messages to all or part of interpreters, even a certain one)
 - Real-time clock displayed on the LCD of the interpreter unit to inform interpreter to stay on schedule
- 7 pre-select buttons (1/2/3/4/5/6/7) for relay languages with activation indication on the LCD
- Rotary step control for fast selection of language channels
- Home button for LCD menu activation and return
- A/B/C channel key with indicator
- Mute function prevents constrained voice being transmitted (MUTE key)
- Speak slowly function to alert the current speaker to slow down (SLOW key) (Can be disabled)
- Repeat function (REP. key) (Can be disabled)
- Interpreter unit's microphone can be turned off and A/B/C output channels can be switched by operator, when operating conference system management software
- Volume and bass/treble of the headphone adjustable
- Volume of the loudspeaker adjustable
- Floor channel ON/OFF switch
- Microphone ON/OFF switch
- Help function for requesting help from the operator (can be disabled)
- Beeps function
- Message key (☒) (Can be disabled)

Interconnections

- Socket for pluggable microphone
- 3 x Ø 3.5 mm TRRS jack for headset
- 1.5 m cable with 8P-DIN standard plug for connection with system CMU or the next Simultaneous Interpreter unit
- 0.6 m cable with 8P-DIN standard socket for loop-through interconnection

Technical Specifications

Electrical

Max. consumption.....5W

Headphone connection

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

Headphone load impedance.....>16 Ohm

Volume level.....10 mW

Interface data

Connector.....3 x Ø 3.5 mm TRRS jack for headset

Mechanical

Mounting.....free-standing, flush-mounting or mounted on a table

Dimensions (h x w x d) (w/o stem microphone)...83 x 320 x 148 mm

Slope.....23 degrees

Weight (incl. stem microphone).....1.1 kg

Color.....Champagne (PANTONE 401 C)

Ordering Information

HCS-8685/80.....New Generation Fully Digital Congress System Interpreter Unit (64 CHs, 6.8" TFT LCD, microphone, loudspeaker, stem microphone to be ordered separately)

HCS-8385N/50 Fully Digital Congress System Interpreter Unit



Features

- **User-centered design: incorporating most recent requirements from conference interpreters (at European Institutions, the United Nations, ...)**
- **“Closed Loop - Daisy Chain” connection topology**
- **Accommodates up to 64 interpretation channels (incl. floor channel)**
- **Audio quality: supporting 48 kHz audio sampling rate, 30 Hz to 20 kHz frequency response on all 64 channels**
- **Excellent immunity to RF interference from mobile phones**
- **Ergonomic design with features for visually impaired**
- **6.8" TFT LCD for high quality display**
- **7 pre-select buttons (1/2/3/4/5/6/7) for relay languages with activation indication on the LCD**
- **Adjustable Gain for the activated microphone**
- **Supports 3.5 mm stereo headset with CTIA standard**
- **Hearing protection**
- **Mobile messaging integration: lead interpreter can send messages from a mobile phone to all or specified Interpreter Units via Bluetooth**

HCS-8385N/50 Interpreter Unit provides up to 64 CHs language channels. It is composed of a 6.8" TFT LCD, built-in 64 CHs channel selector and loudspeaker, pluggable stem microphone and headphone/microphone jacks. LCD can display channel number, language name, input language, quality indication and short message, etc. It can display a) the audience status of the output channel, including how many people are listening to the output channel from wired language distribution system, b) if the output channel is monitored by the infrared language distribution system (HCS-5100 system), and c) if the output channel is recording. In addition, the signal level of the input channel can be displayed in real time. Interpreter Unit's connection cable is compatible with the trunk-line cable, thus Interpreter Units can be easily added to system in place.

It provides two operation modes: normal interpretation and relay interpretation with auto-relay.

Functions

- **User-centered design: incorporating most recent requirements from conference interpreters (at European Institutions, the United Nations, ...)**
- **Compliant to ISO 20109 and ISO 4043**
- **Fully digital audio technology**
- **"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 (HCS-8300MCLS needed)**
- **Accommodates up to 64 interpretation channels (incl. floor channel)**
- **Audio quality: supporting 48 kHz audio sampling rate, 30 Hz to 20 kHz frequency response on all 64 channels**
- **Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed**
- **Direct and relay interpretation available**
- **Auto relay interpretation facility**
- **Presets language name either by the main unit or the application software**
- **Gain of the activated microphone adjustable either by the main unit or the application software**
- **Equipped with 5PIN microphone socket, stem microphone ordered separately, suitable for MS5* type and MS**E type stem microphone**
- **Stem microphone can be unplugged during adjournment, easy to maintain**
- **Automatic feedback prevention when listening to own interpretation**
- **Hearing protection: When headphones level exceeds a preset value, a floating window will be triggered to alert**
- **Built-in loudspeaker with volume control. If all microphones in the same booth are off, the loudspeaker will play floor language or interpretation channel**
- **Channel interlock function permits only one microphone on a channel to be activated at any time, ensuring the uniqueness of language channels**
- **Three necessary modes between interpreter booths:**
 - **Interlock: blocks another interpreter from using the same channel in another interpreter booth.**
 - **Override: allows an interpreter to override another interpreter in another interpreter booth supplying the same interpretation channel.**
 - **BC-Override: allows B/C channel of an interpreter in a booth to override an occupied A channel in another booth, but supplying the same channel.**
- **Two necessary modes within one interpreter booth: Interlock and Override**
- **A maximum of six interpreter units can be installed in each booth**
- **Mobile messaging integration: lead interpreter can send text messages from a mobile phone to Interpreter Units via Bluetooth**
- **Password function available: System manager could set password for authorization of changing interpreter unit setting, so as to avoid random alteration**

Controls and Indicators

- Uni-directional electret condenser microphone with illuminated ring
- 6.8" TFT LCD high quality display:
 - Unit configuration information
 - Incoming/outgoing channel number and language name
 - Channel number and language name of loudspeaker output
 - Incoming language indication
 - ◆ If the monitoring language comes from the original floor channel, "FLOOR" is displayed on the corresponding language channel
 - ◆ If the monitoring language comes from the direct interpretation channel of the floor language, "+" is displayed
 - ◆ If the monitoring language comes from the indirect interpretation channel of the floor language, "-" is displayed
 - ◆ If the monitoring language comes from the indirect interpretation channel of an interpretation language, "--" is displayed
 - ◆ If the monitoring language comes from the output interpretation channel of current interpreter unit, "X" is displayed
 - ◆ Note: the indication means to remind the interpreters to avoid using the relay interpretation as often as possible if the direct interpretation is available
 - The audio stream status of the output channel: recording/monitoring by the infrared language distribution system
 - How many people are listening to the output channel
 - Short messages (administrator can send messages to all or part of interpreters, even a certain one)
 - Real-time clock displayed on the LCD of the interpreter unit to inform interpreter to stay on schedule
- 7 pre-select buttons (1/2/3/4/5/6/7) for relay languages with activation indication on the LCD
- Rotary step control for fast selection of language channels
- Home button for LCD menu activation and return
- A/B/C channel key with indicator
- Mute function prevents constrained voice being transmitted (MUTE key)
- Speak slowly function to alert the current speaker to slow down (SLOW key) (Can be disabled)
- Repeat function (REP. key) (Can be disabled)
- Volume and bass/treble of the headphone adjustable
- Volume of the loudspeaker adjustable
- Floor channel ON/OFF switch
- Microphone ON/OFF switch
- Help function for requesting help from the operator (can be disabled)
- Beeps function
- Message key (✉) (Can be disabled)

Interconnections

- Socket for pluggable microphone
- 3 x Ø 3.5 mm TRRS jack for headset
- 1.5 m cable with 6P-DIN plug
- 0.6 m cable with 6P-DIN socket

Technical Specifications

Electrical

Max. consumption.....4.8 W

Headphone connection

Frequency response.....30 Hz to 20 kHz

Headphone load impedance.....≥16 Ohm

Volume level.....10 mW

Interface data

Connector.....3 x Ø 3.5 mm TRRS jack for headset

Mechanical

Mounting.....free-standing, flush-mounting or mounted on a table

Dimensions (h x w x d) (w/o stem microphone)...83 x 320 x 148 mm

Slope.....23 degrees

Weight (incl. stem microphone).....1.1 kg

Color.....Champagne (PANTONE 401 C)

Ordering Information

HCS-8385N/50.....New Generation Fully Digital Congress System Interpreter Unit (64 CHs, 6.8" TFT LCD, microphone, loudspeaker)

HCS-8665MON Multi-channel Video Monitor



Ordering Information

HCS-8665MON_B.....Multi-channel Video Monitor (tabletop, 14" 1920x1080 LCD, HD video display, HDMI input, support PoE, Braille, black)

Features

- Stylish and ergonomic design
- Equipped with a 14" TFT LCD, 1920x1080 high-resolution
- Supporting HDMI high definition digital video display
- Video source selection
- Excellent immunity to RF interferences from mobile phones
- Supporting "PnP" (plug and play)
- Braille indicators for visually impaired
- PoE power supply

Controls and Indicators

- Graphic 14" TFT LCD
- Four buttons for video selection

Interconnections

- RJ45 sockets support PoE
- HDMI input

Technical Specifications

Electrical

LCD

Type.....True color TFT LCD
 Dimension.....14 inches, 16:9
 Resolution.....1920x1080
 Display colors.....262K color
 Contrast.....800:1

Mechanical

Mounting.....Tabletop
 Dimensions (h x w x d)194 x447 x 123 mm
 Color.....Black (PANTONE 419 C)
 Weight.....2.4 kg

HCS-8600MIO/16AD

16 Channels Audio Input & Output Device



Functions

- 16 channels digital & analog audio inputs & outputs
- Supports Dante, an uncompressed, multi-channel digital media networking technology, with near-zero latency and synchronization
- With web page control function, parameters can be set through web browser
- Transmits multi digital/analog audio channels to the interpretation channels of the Congress System, for example for remote interpretation purposes or for transmission to floor channel
- All inputs can be mixed with arbitrary ratio, and outputted to any channel
- Converts the digital audio signals of the Congress System to multi channel digital/analog audio signals, for further processing in infrared simultaneous interpretation systems or recording devices
- When the EXTENSION1 interface is set in PC mode, it can be used for network audio transmission, connecting to ASR system, etc.
- With web control function, detailed parameters can be set through web browser
 - ◆ Work as audio input device
 - Set audio source
 - Adjust input gain or set it mute
 - Display input level in real-time
 - Open phantom power for microphone
 - Set input SI channel
 - 5 band Parameterized EQ + DRC (dynamic range compressor)
 - Supports for configuration scene saving, calling and switching
 - ◆ Work as audio output device
 - Display audio source
 - Adjust output gain
 - Display output level in real-time
 - Set output SI channel
 - 5 band Parameterized EQ + DRC (dynamic range compressor)
 - Set analog or digital output
 - Supports for configuration scene saving, calling and switching
 - ◆ Work as BM mode: for booth management
- Configurable as Sync/Not sync power on/off with Congress Main Unit

Controls and Indicators

- Graphic 132 × 32 LCD with back-lighting displays input & output channel number and language name, supporting multi-language menu
- Power switch with indicator

Interconnections

- 16 × 3-pin Phoenix connector for analog audio inputs (balanced)
- Dante module for 16 channels digital audio transmission
- Duplex SC single-mode optical fiber interface and Extension interface for connection with Congress Main Unit (only one interface can be connected at the same time to the Main Unit)
- Extension interface for connection with the sequencing Congress Extension Main Unit or Audio Input & Output Device
- RS232 port for connection to central control system
- Integrated USB interfaces for upgrading system and saving system parameters. Convenient for system maintenance

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.....	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption.....	65 W

Max. audio inputs

Analog: 16 × 3-pin Phoenix (Line in).....	+8 dBu
Analog: 16 × 3-pin Phoenix (Mic. in).....	-12 dBu
Input sensitivity adjustable range.....	-20 dB ~ +10 dB, mute

Max. audio outputs

Analog: 16 × 3-pin Phoenix.....	+18 dBu
Output level adjustable range.....	-30 dB~ +20 dB, mute

Mechanical

Mounting.....	Tabletop or mounted in a 19" rack
Dimensions (h × w × d)	
For table use, with feet.....	48 × 480 × 288 mm
For 19" rack use.....	45 × 480 × 288 mm
Weight.....	3.6 kg
Color.....	Black (PANTONE 419 C)

Ordering Information

HCS-8600MIO/16AD... 16 Channels Audio Input & Output Device (16 channels audio inputs & outputs, Dante interface, single-mode optical fiber interface)

HCS-8600MIO/08A

8 Channels Audio Input & Output Device



Functions

- 8 channels analog audio inputs & outputs
- With web page control function, parameters can be set through web browser
- Transmits multi analog audio channels to the interpretation channels of the Congress System, for example for remote interpretation purposes or for transmission to floor channel
- All inputs can be mixed with arbitrary ratio, and outputted to any channel
- Converts the digital audio signals of the Congress System to multi channel analog audio signals, for further processing in infrared simultaneous interpretation systems or recording devices
- When the EXTENSION1 interface is set in PC mode, it can be used for network audio transmission, connecting to ASR system, etc.
- With web control function, detailed parameters can be set through web browser
 - ◆ Work as audio input device
 - Set audio source
 - Adjust input gain or set it mute
 - Display input level in real-time
 - Open phantom power for microphone
 - Set input SI channel
 - 5 band Parameterized EQ + DRC (dynamic range compressor)
 - Supports for configuration scene saving, calling and switching
 - ◆ Work as audio output device
 - Display audio source
 - Adjust output gain
 - Display output level in real-time
 - Set output SI channel
 - 5 band Parameterized EQ + DRC (dynamic range compressor)
 - Supports for configuration scene saving, calling and switching
 - ◆ Work as BM mode: for booth management
- Configurable as Sync/Not sync power on/off with Congress Main Unit

Controls and Indicators

- Graphic 132 × 32 LCD with back-lighting displays input & output channel number and language name, supporting multi-language menu
- Power switch with indicator

Interconnections

- 8 × 3-pin Phoenix connector for analog audio inputs (balanced)
- 8×3-pin Phoenix connector for analog audio outputs (balanced)
- Duplex SC single-mode optical fiber interface and Extension interface for connection with Congress Main Unit (only one interface can be connected at the same time to the Main Unit)
- Extension interface for connection with the sequencing Congress Extension Main Unit or Audio Input & Output Device
- RS232 port for connection to central control system
- Integrated USB interfaces for upgrading system and saving system parameters. Convenient for system maintenance

Technical Specifications

Electrical

Frequency response	.....20 Hz to 20 kHz
SNR	.....≥100 dB
Dynamic range	.....≥94 dB
Isolation	.....≥90 dB
THD	.....≤0.05%
Power supply	.....AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	.....65 W

Max. audio inputs

Analog: 8 × 3-pin Phoenix (Line in)	.....+8 dBu
Analog: 8 × 3-pin Phoenix (Mic. in)	.....-12 dBu
Input sensitivity adjustable range	.....-20 dB ~ +10 dB, mute

Max. audio outputs

Analog: 8 × 3-pin Phoenix	.....+18 dBu
Output level adjustable range	.....-30 dB~ +20 dB, mute

Mechanical

Mounting	.....Tabletop or mounted in a 19" rack
Dimensions (h × w × d)	
For table use, with feet	.....48 × 480 × 288 mm
For 19" rack use	.....45 × 480 × 288 mm
Weight	.....3.6 kg
Color	.....Black (PANTONE 419 C)

Ordering Information

HCS-8600MIO/08A.....8 Channels Audio Input & Output Device (8 channels audio inputs & outputs, single-mode optical fiber interface)

HCS-8600MIO/08D

8 Channels Audio Input & Output Device



Functions

- 8 channels digital audio inputs & outputs
- Supports Dante, an uncompressed, multi-channel digital media networking technology, with near-zero latency and synchronization
- With web page control function, parameters can be set through web browser
- Transmits multi digital audio channels to the interpretation channels of the Congress System, for example for remote interpretation purposes or for transmission to floor channel
- All inputs can be mixed with arbitrary ratio, and outputted to any channel
- Converts the digital audio signals of the Congress System to multi channel digital audio signals, for further processing in infrared simultaneous interpretation systems or recording devices
- When the EXTENSION1 interface is set in PC mode, it can be used for network audio transmission, connecting to ASR system, etc.
- With web control function, detailed parameters can be set through web browser
 - ◆ Work as audio input device
 - Set audio source
 - Adjust input gain or set it mute
 - Display input level in real-time
 - Set input SI channel
 - 5 band Parameterized EQ + DRC (dynamic range compressor)
 - Supports for configuration scene saving, calling and switching
 - ◆ Work as audio output device
 - Display audio source
 - Adjust output gain
 - Display output level in real-time
 - Set output SI channel
 - 5 band Parameterized EQ + DRC (dynamic range compressor)
 - Supports for configuration scene saving, calling and switching
 - ◆ Work as BM mode: for booth management
- Configurable as Sync/Not sync power on/off with Congress Main Unit

Controls and Indicators

- Graphic 132 × 32 LCD with back-lighting displays input & output channel number and language name, supporting multi-language menu
- Power switch with indicator

Interconnections

- Dante module for 8 channels digital audio transmission
- Duplex SC single-mode optical fiber interface and Extension interface for connection with Congress Main Unit (only one interface can be connected at the same time to the Main Unit)
- Extension interface for connection with the sequencing Congress Extension Main Unit or Audio Input & Output Device
- RS232 port for connection to central control system
- Integrated USB interfaces for upgrading system and saving system parameters. Convenient for system maintenance

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	.....AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	.....65 W

Max. audio inputs

Input sensitivity adjustable range.....-20 dB ~ +10 dB, mute

Max. audio outputs

Output level adjustable range.....-30 dB~ +20 dB, mute

Mechanical

Mounting	.....Tabletop or mounted in a 19" rack
Dimensions (h x w x d)	
For table use, with feet	.....48 × 480 × 288 mm
For 19" rack use	.....45 × 480 × 288 mm
Weight	.....3.6 kg
Color	.....Black (PANTONE 419 C)

Ordering Information

HCS-8600MIO/08D.....8 Channels Audio Input & Output Device
(Dante interface, single-mode optical fiber interface)

Function list of HCS-8600MIO Series Audio Input & Output Devices

Type No.	Analog input	Analog output	Dante interface	Optical fiber interface
HCS-8600MIO/16AD	16 channels	16 channels	16 channels	√
HCS-8600MIO/08A	8 channels	8 channels		√
HCS-8600MIO/08D			8 channels	√

HCS-4112M/10 1×10 Broadcast Quality Audio Distributor



Features

- Routing: 1×10 Broadcast Quality Audio Distributor
- Audio interface: 3 core XLR balanced
- 1 input channel, 10 adjustable gain output channels (with audio monitor)
- Each output with a built-in independent earth isolated set (10 isolating transformers used), making it completely isolated from interference between input and output signals, and eliminating interference from power supply system and earth wire

HCS-4112M/10 is a professional audio distributor with excellent capability. Each output is equipped with a gain adjust knob and a built-in independent earth isolated set. This broadcast standard audio distributor with earthing isolation feature is mainly used for high quality multi-way audio distribution.

Controls and Indicators

- Power indicator
- 10 gain control knobs of audio outputs

Interconnections

- 1 XLR-F connector for audio input to connect balanced audio signal
- 1 XLR-M connector for connection with the audio input of the next HCS-4112M/10
- 10 XLR-M connectors for distributing the audio signal of the conference proceedings and the interpretation from interpreters to recording devices
- 1 XLR-F connector for monitoring audio input

Technical Specifications

Electrical

Gain.....	-∞ ~ +10 dB / adjustable
Frequency response.....	20 Hz to 20 kHz (+0/-1 dB)
SNR.....	>106 dB
THD.....	<0.02%
Power supply.....	AC 100 V - 240 V, 50 Hz / 60 Hz

Audio Input

Connector.....	1 XLR-F balanced
Max. input.....	+6 dBV

Audio output

Connectors.....	10 XLR-M balanced
Max. output.....	+16 dBV

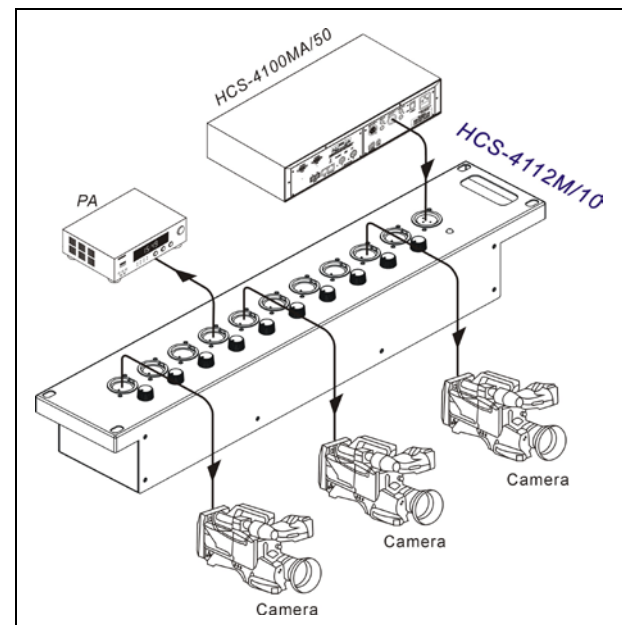
General specs

Temperature.....	Operating: 0 °C to + 50 °C; storage: -20 °C to + 70 °C
Humidity.....	Storage and operating: 10% to 90%
Dimensions h x w x d (mm).....	85 x 483 x 88
Color.....	White (PANTONE 420 C)
Weight.....	1.2 kg

Ordering Information

HCS-4112M/10.....	1×10 Broadcast Standard Audio Distributor (3-pin XLR input/output connectors, adjustable gain output, built-in earth isolated set)
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System Connection



HCS-4112M/29

1x29 Broadcast Quality Audio Distributor



Features

- Routing: 1x29 Broadcast Quality Audio Distributor
- Audio interface: 3 core XLR balanced
- 1 input channel, 29 adjustable gain output channels
- Audio monitoring facility
- Each output with a built-in independent earth isolated set (adopt 29 isolated transformers), making it completely isolated from interference between input and output signals, and eliminate the interference from power supply system and earth wire

HCS-4112M/29 is a professional audio distributor with excellent capability. Each output is equipped with a gain adjust knob and a built-in independent earth isolated set. This broadcast standard audio distributor with earthing isolation feature is mainly used for high quality multi-way audio distribution.

Controls and Indicators

- Power indicator
- 5 signal indicators
- 29 gain control knobs of audio outputs
- Monitor volume control knob

Interconnections

- 1 XLR-F connector for audio input to connect balanced audio signal
- 1 XLR-M connector for connection with the audio input of the next HCS-4112M/29
- 29 XLR-M connectors for distributing the audio signal of the conference proceedings and the interpretation from interpreters to recording devices
- 1 XLR-F connector for monitoring audio input
- Ø 3.5 mm jack for stereo monitor earphone

Technical Specifications

Electrical

Gain	-∞ ~ +10 dB / adjustable
Frequency response	20 Hz to 20 kHz (+0/-1 dB)
SNR	>106 dB
THD	<0.02%
Power supply	100 V AC to 240 V AC, 50/60 Hz,

Audio Input

Connector	1 XLR-F balanced
Max. input	+6 dBV

Audio output

Connectors	29 XLR-M balanced
Max. output	+16 dBV

General specs

Temperature	Operating: 0 °C to + 50 °C; storage: -20 °C to + 70 °C
Humidity	Storage and operating: 10% to 90%
Dimensions h x w x d (mm)	70 x 483 x 222
Weight	2.8 kg

Ordering Information

HCS-4112M/29	1x29 Broadcast Standard Audio Distributor (3-pin XLR input/output connectors, adjustable gain output, built-in earth isolated set)
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HCS-8685BM Booth Manager



Functions

- An ideal solution for booth allocation, allowing allocating booths at will without changing existing wiring
- 1x RJ45 port, for LAN connection
- 2x8P-DIN ports, can connect up to 6 interpreter units
- Back-lit 132x32 LCD display, showing IP address of the Booth Manager and the number of the booth where it is located
- Web control facility, allows for access and complete configuration via web page
- Allocation of the Booth Manager to a certain HCS-8600 series conference system via HCS-8544S Booth Allocation and Management Software
- Integrated Type-C USB interface for system upgrading. Convenient for system maintenance

Controls and Indicators

- 132x32 LCD with back-lighting display
- Power switch with indicator

Interconnections

- 2 × 8P-DIN interface for connection with interpreter units
- 1 × RJ45 standard socket for connection to LAN
- Type-C USB interfaces for system upgrading

Technical Specifications

Electrical

Power supply.....DC 48 V, 1.875 A
 Power consumption.....4 W

Mechanical

Dimensions (h × w × d).....46 × 190 × 134 mm
 Weight.....1.5 kg
 Color.....Black (PANTONE 419 C)

Ordering Information

HCS-8685BM.....Booth Manager (2 outlets for interpreter units)

HCS-851A/02 Interpreter Booth



HCS-851A/02



HCS-851K

Features

- Compliant to ISO 4043 and GB 50524-2010
- Odorless, antistatic, fire-retardant material
- Optimum insulation and sound absorption
- Hinged door (with observation window 0.20 m x 0.20 m), opens outwards, operates silently
- Two front windows and two side windows (high: 0.87 m); lower edge of the window: 0.79 m from booth floor
- Booth to hall (and vice versa) - sound pressure level difference: ≥ 24 dB (1 kHz)
- Reverberation time inside the booth: between 0.3 and 0.5 s (octave bands from 125 Hz to 4000 Hz, booth unoccupied)
- Ventilation system (purging 8 times per hour at least) of interpretation booth uses low-noise exhaust fan
- Internal dimensions of the booth h x w x d (cm): 200 x 160 x 160, accommodates two interpreters
- Overall dimensions of the booth h x w x d (cm): 204 x 172 x 172
- Shipping needs HCS-851K Interpreter Booth Shipping Case
 - Dimensions of HCS-851K h x w x d (cm): 110x209x79
 - Weight (incl. the booth): 260 kg

Ordering Information

HCS-851A/02.....Interpreter Booth (accommodates 2 interpreters, internal dimensions is 200x160x160 cm, aluminum alloy framework convenience for disassembly, with a shipping case, total weight is 260 kg)

HCS-851K.....Interpreter Booth Shipping Case (for HCS-851A/02)

HCS-851A/03 Interpreter Booth



HCS-851A/03



HCS-851K



HCS-851KT

Features

- Compliant to ISO 4043 and GB 50524-2010
- Odorless, antistatic, fire-retardant material
- Optimum insulation and sound absorption
- Hinged door (with observation window 0.20 m × 0.20 m), opens outwards, operates silently)
- Three front windows and two side windows (high: 0.87 m); lower edge of the window: 0.79 m from booth floor
- Booth to hall (and vice versa) - sound pressure level difference: ≥24 dB (1 kHz)
- Reverberation time inside the booth: between 0.3 and 0.5 s (octave bands from 125 Hz to 4000 Hz, booth unoccupied)
- Ventilation system (purging 8 times per hour at least) of interpretation booth uses low-noise exhaust fan
- Internal dimensions h × w × d (cm): 200×240×160, accommodates three interpreters
- Overall dimensions h × w × d (cm): 204×252×172
- Shipping needs HCS-851K and HCS-851KT Interpreter Booth Shipping Case
 - ♦ Dimensions of HCS-851K h × w × d (cm): 110×75×209
 - ♦ Dimensions of HCS-851KT h × w × d (cm): 91×215×40
 - ♦ Weight (incl. the booth): 350 kg

Ordering Information

HCS-851A/03.....Interpreter Booth (accommodates 3 interpreters, internal dimensions is 200×240×160 cm, aluminum alloy framework convenience for disassembly, with 2 shipping case, total weight is 350kg)

HCS-851KT.....Interpreter Booth Shipping Case
(for HCS-851A/03, HCS-851K needed)

HCS-5100MA/FS/08B 8 CHs Digital Infrared Transmitter



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- DQPSK digital modulation/demodulation technology
- Capable of distributing a maximum of 8 audio channels
- Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls
- Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues
- Transmitting in 1~8 MHz frequency band eliminates disturbance from high frequency lighting systems
- Each audio channel can be assigned a language name for easy identification
- Flexible configuration of channels and channel quality modes:
 - ◆ Mono, standard quality, maximum 8 channels
 - ◆ Mono, perfect quality, maximum 4 channels
 - ◆ Stereo, standard quality, maximum 4 channels
 - ◆ Stereo, perfect quality, maximum 2 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels, support levels indicating of audio input
- Automatic synchronization to the number of channels in use by the system
- “Bypass” mode for distribution of signals from another transmitter allows multiple rooms to be used
- During adjournment, music mode can be used to feed music to all channels
- Independent test facility: self-generates diverse frequencies for system debugging
- Built-in infrared emitters in transmitter for audio monitoring in operating room
- With optical fiber interface, DCS interface and 6P-DIN connector for connecting to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M Congress Main Unit directly
- With 8 (1+7) audio output channels for recording
- With web control function, transmitter can be controlled through web page
- Digital Infrared Radiator can be turned off remotely via RS-232 port
- With the function of synchronous shutdown of the radiator and the transmitter
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MA/FS/08B accepts and modulates up to 8 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can be connected to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M congress main unit directly, or be used as a stand-alone system for distributing external audio signals. HCS-5100MA/FS/08B is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8” LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 8 audio signal output connectors (RCA sockets) for output DCS multi-channel audio
- 8 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- 6P-DIN connector for connecting to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M Congress Main Unit or HCS-8385N Interpreter Unit
- Duplex SC single-mode optical fiber interface and DCS interface (2 × RJ45 standard socket) for connecting to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M Congress Main Unit
- USB_H interface to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Power supply socket

Technical Specifications

System Specifications

Modulation.....DQPSK, according to IEC 61603-7
 Modulation frequency 1 to 8 MHz
 Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603-7
 Frequency response.....20 Hz to 10 kHz (-3dB) at standard quality;
 20 Hz to 20 kHz (-3dB) at perfect quality
 THD at 1 kHz.....≤0.05%
 Isolation.....≥85 dB
 Dynamic range.....≥90 dB
 Weighted SNR.....≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
 Balanced audio inputs.....-6 dBV to +18 dBV nominal
 Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
 alarm signal control input
 Headphone output.....32 Ohm to 2 kOhm
 HF input/output.....75 Ohm
 Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
 Power consumption.....Maximum 25 W

Mechanical

Mounting.....Brackets for 19" rack mounting or fixing to a table top;
 detachable feet for free-standing use on a table top
 Dimensions h x w x d (mm).....88 x 480 x 418
 Weight.....7 kg
 Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MA/FS/08B.....8 CHs Digital Infrared Transmitter
 (compatible with HCS-4100M/ HCS-8300M/
 HCS-4800M/ HCS-8600M or HCS-4385U/50
 interpreter unit, HCS-8385N interpreter unit,
 single-mode optical fiber interface)

HCS-5100MA/FS/16B 16 CHs Digital Infrared Transmitter



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- DQPSK digital modulation/demodulation technology
- Capable of distributing a maximum of 16 audio channels
- Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls
- Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues
- Transmitting in 1~8 MHz frequency band eliminates disturbance from high frequency lighting systems
- Each audio channel can be assigned a language name for easy identification
- Flexible configuration of channels and channel quality modes:
 - ◆ Mono, standard quality, maximum 16 channels
 - ◆ Mono, perfect quality, maximum 8 channels
 - ◆ Stereo, standard quality, maximum 8 channels
 - ◆ Stereo, perfect quality, maximum 4 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels, support levels indicating of audio input
- Automatic synchronization to the number of channels in use by the system
- "Bypass" mode for distribution of signals from another transmitter allows multiple rooms to be used
- During adjournment, music mode can be used to feed music to all channels
- Independent test facility: self-generates diverse frequencies for system debugging
- Built-in infrared emitters in transmitter for audio monitoring in operating room
- With optical fiber interface, DCS interface and 6P-DIN connector for connecting to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M Congress Main Unit directly
- With 16 (1+15) audio output channels for recording
- With web control function, transmitter can be controlled through web page
- Digital Infrared Radiator can be turned off remotely via RS-232 port
- With the function of synchronous shutdown of the radiator and the transmitter
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MA/FS/16B accepts and modulates up to 8 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can be connected to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M congress main unit directly, or be used as a stand-alone system for distributing external audio signals. HCS-5100MA/FS/16B is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied..

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 16 audio signal output connectors (RCA sockets) for output DCS multi-channel audio
- 16 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- 6P-DIN connector for connecting to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M Congress Main Unit or HCS-4385U/50 Interpreter Unit
- Duplex SC single-mode optical fiber interface and DCS interface (2 × RJ45 standard socket) for connecting to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M Congress Main Unit
- USB_H interface to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Power supply socket

Technical Specifications

System Specifications

Modulation.....DQPSK, according to IEC 61603-7
 Modulation frequency 1 to 8 MHz
 Carriers 0 to 5;2 to 6 MHz, according to IEC 61603-7
 Frequency response.....20 Hz to 10 kHz (-3dB) at standard quality;
 20 Hz to 20 kHz (-3dB) at perfect quality
 THD at 1 kHz.....≤0.05%
 Isolation.....≥85 dB
 Dynamic range.....≥90 dB
 Weighted SNR.....≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
 Balanced audio inputs.....-6 dBV to +18 dBV nominal
 Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
 alarm signal control input
 Headphone output.....32 Ohm to 2 kOhm
 HF input/output.....75 Ohm
 Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
 Power consumption.....Maximum 25 W

Mechanical

Mounting.....Brackets for 19" rack mounting or fixing to a table top;
 detachable feet for free-standing use on a table top
 Dimensions h x w x d (mm).....88 x 480 x 418
 Weight.....7 kg
 Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MA/FS/16B.....16 CHs Digital Infrared Transmitter
 (compatible with HCS-4100M/ HCS-8300M/
 HCS-4800M/ HCS-8600M or HCS-8385N
 interpreter unit, single-mode optical fiber
 interface)

HCS-5100MA/04B 4 CHs Digital Infrared Transmitter



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- DQPSK digital modulation/demodulation technology
- Capable of distributing a maximum of 4 audio channels
- Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls
- Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues
- Transmitting in 1~8 MHz frequency band eliminates disturbance from high frequency lighting systems
- Each audio channel can be assigned a language name for easy identification
- Flexible configuration of channels and channel quality modes:
 - ◆ Mono, standard quality, maximum 4 channels
 - ◆ Mono, perfect quality, maximum 2 channels
 - ◆ Stereo, standard quality, maximum 2 channels
 - ◆ Stereo, perfect quality, maximum 1 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels, support levels indicating of audio input
- Automatic synchronization to the number of channels in use by the system
- "Bypass" mode for distribution of signals from another transmitter allows multiple rooms to be used
- During adjournment, play music mode can be used to feed music to all channels
- Independent test facility: self-generates diverse frequencies for system debugging
- Built-in infrared emitters in transmitter for audio monitoring in operating room
- With DCS interface and 6P-DIN connector for connecting to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M Congress Main Unit directly
- With 4 (1+3) audio output channels for recording
- With web control function, transmitter can be controlled through web page
- Digital Infrared Radiator can be turned off remotely via RS-232 port
- With the function of synchronous shutdown of the radiator and the transmitter
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MA/04B accepts and modulates up to 4 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M congress main unit directly, or be used as a stand-alone system for distributing external audio signals. HCS-5100MA/04B is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob for configuration
- Standby switch with indicator
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 4 audio signal output connectors (RCA sockets) for output DCS multi-channel audio
- 4 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- 6P-DIN connector for connecting to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M Congress Main Unit or HCS-8385N Interpreter Unit
- DCS interface (2×RJ45 standard socket) for connecting to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M Congress Main Unit
- USB_H interface to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Power supply socket

Technical Specifications

System Specifications

Modulation.....DQPSK, according to IEC 61603-7
 Modulation frequency 1 to 8 MHz
 Carriers 0 to 5;2 to 6 MHz, according to IEC 61603-7
 Frequency response.....20 Hz to 10 kHz (-3dB) at standard quality;
 20 Hz to 20 kHz (-3dB) at perfect quality
 THD at 1 kHz.....≤0.05%
 Isolation.....≥85 dB
 Dynamic range.....≥90 dB
 Weighted SNR.....≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
 Balanced audio inputs.....-6 dBV to +18 dBV nominal
 Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
 alarm signal control input
 Headphone output.....32 Ohm to 2 kOhm
 HF input/output.....75 Ohm
 Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
 Power consumption.....Maximum 25 W

Mechanical

Mounting.....Brackets for 19" rack mounting or fixing to a table top;
 detachable feet for free-standing use on a table top
 Dimensions h x w x d (mm).....88 x 480 x 418
 Weight.....6.8 kg
 Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MA/04B.....4 CHs Digital Infrared Transmitter
 (compatible with HCS-4100M/ HCS-8300M/
 HCS-4800M/ HCS-8600M or HCS-8385N
 interpreter unit)

HCS-5100MA/08B 8 CHs Digital Infrared Transmitter



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- DQPSK digital modulation/demodulation technology
- Capable of distributing a maximum of 8 audio channels
- Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls
- Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues
- Transmitting in 1~8 MHz frequency band eliminates disturbance from high frequency lighting systems
- Each audio channel can be assigned a language name for easy identification
- Flexible configuration of channels and channel quality modes:
 - ◆ Mono, standard quality, maximum 8 channels
 - ◆ Mono, perfect quality, maximum 4 channels
 - ◆ Stereo, standard quality, maximum 4 channels
 - ◆ Stereo, perfect quality, maximum 2 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels, support levels indicating of audio input
- Automatic synchronization to the number of channels in use by the system
- "Bypass" mode for distribution of signals from another transmitter allows multiple rooms to be used
- During adjournment, play music mode can be used to feed music to all channels
- Independent test facility: self-generates diverse frequencies for system debugging
- Built-in infrared emitters in transmitter for audio monitoring in operating room
- With DCS interface and 6P-DIN connector for connecting to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M Congress Main Unit directly
- With 8 (1+7) audio output channels for recording
- With web control function, transmitter can be controlled through web page
- Digital Infrared Radiator can be turned off remotely via RS-232 port
- With the function of synchronous shutdown of the radiator and the transmitter
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MA/08B accepts and modulates up to 8 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M congress main unit directly, or be used as a stand-alone system for distributing external audio signals. HCS-5100MA/08B is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob for configuration
- Standby switch with indicator
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 8 audio signal output connectors (RCA sockets) for output DCS multi-channel audio
- 8 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- 6P-DIN connector for connecting to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M Congress Main Unit or HCS-8385N Interpreter Unit
- DCS interface (2×RJ45 standard socket) for connecting to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M Congress Main Unit
- USB_H interface to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Power supply socket

Technical Specifications

System Specifications

Modulation.....DQPSK, according to IEC 61603-7
 Modulation frequency 1 to 8 MHz
 Carriers 0 to 5;2 to 6 MHz, according to IEC 61603-7
 Frequency response.....20 Hz to 10 kHz (-3dB) at standard quality;
 20 Hz to 20 kHz (-3dB) at perfect quality
 THD at 1 kHz.....≤0.05%
 Isolation.....≥85 dB
 Dynamic range.....≥90 dB
 Weighted SNR.....≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
 Balanced audio inputs.....-6 dBV to +18 dBV nominal
 Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
 alarm signal control input
 Headphone output.....32 Ohm to 2 kOhm
 HF input/output.....75 Ohm
 Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
 Power consumption.....Maximum 25 W

Mechanical

Mounting.....Brackets for 19" rack mounting or fixing to a table top;
 detachable feet for free-standing use on a table top
 Dimensions h x w x d (mm).....88 x 480 x 418
 Weight.....6.8 kg
 Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MA/08B.....8 CHs Digital Infrared Transmitter
 (compatible with HCS-4100M/ HCS-8300M/
 HCS-4800M/ HCS-8600M or HCS-8385N
 interpreter unit)

HCS-5100MC/08BD 8 CHs Digital Infrared Transmitter



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- DQPSK digital modulation/demodulation technology
- Capable of distributing a maximum of 8 audio channels
- Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls
- Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues
- Transmitting in 1~8 MHz frequency band eliminates disturbance from high frequency lighting systems
- Each audio channel can be assigned a language name for easy identification
- Flexible configuration of channels and channel quality modes:
 - ◆ Mono, standard quality, maximum 8 channels
 - ◆ Mono, perfect quality, maximum 4 channels
 - ◆ Stereo, standard quality, maximum 4 channels
 - ◆ Stereo, perfect quality, maximum 2 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels
- Automatic synchronization to the number of channels in use by the system
- "Bypass" mode for distribution of signals from another transmitter allows multiple rooms to be used
- During adjournment, music mode can be used to feed music to all channels
- Independent test facility: self-generates diverse frequencies for system debugging
- Built-in infrared emitters in transmitter for audio monitoring in operating room
- With web control function, transmitter can be controlled through web page
- Digital Infrared Radiator can be turned off remotely via RS-232 port
- With the function of synchronous shutdown of the radiator and the transmitter
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MC/08BD accepts and modulates up to 8 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-8300M congress main unit through HCS-8300MO 8 Channels Audio Output Device, or be used as a stand-alone system for distributing external audio signals. HCS-5100MC/08BD is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob for configuration
- Standby switch with indicator
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 8 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- USB_H interfaces to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Dante interface for connecting to the Dante network to transmit input and output audio signal
- Power supply socket

Technical Specifications

System Specifications

Modulation.....	DQPSK, according to IEC 61603-7
Modulation frequency	1 to 8 MHz
	Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603-7
Frequency response.....	20 Hz to 10 kHz (-3dB) at standard quality;
	20 Hz to 20 kHz (-3dB) at perfect quality
THD at 1 kHz.....	≤0.05%
Isolation.....	≥85 dB
Dynamic range.....	≥90 dB
Weighted SNR.....	≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
Balanced audio inputs.....-6 dBV to +18 dBV nominal
Emergency switch connector, 2-PIN 3.81 mm Phoenix connector,
alarm signal control input
Headphone output.....32 Ohm to 2 kOhm
HF input/output.....75 Ohm
Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption.....Maximum 25 W

Mechanical

Mounting.....Brackets for 19" rack mounting or fixing to a table top;
detachable feet for free-standing use on a table top
Dimensions h x w x d (mm).....88 x 480 x 418
Weight.....6.6 kg
Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MC/08BD.....8 CHs Digital Infrared Transmitter
(Dante interface)

HCS-5100MC/16BD 16 CHs Digital Infrared Transmitter



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- DQPSK digital modulation/demodulation technology
- Capable of distributing a maximum of 16 audio channels
- Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls
- Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues
- Transmitting in 1~8 MHz frequency band eliminates disturbance from high frequency lighting systems
- Each audio channel can be assigned a language name for easy identification
- Flexible configuration of channels and channel quality modes:
 - ◆ Mono, standard quality, maximum 16 channels
 - ◆ Mono, perfect quality, maximum 8 channels
 - ◆ Stereo, standard quality, maximum 8 channels
 - ◆ Stereo, perfect quality, maximum 4 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels
- Automatic synchronization to the number of channels in use by the system
- “Bypass” mode for distribution of signals from another transmitter allows multiple rooms to be used
- During adjournment, music mode can be used to feed music to all channels
- Independent test facility: self-generates diverse frequencies for system debugging
- Built-in infrared emitters in transmitter for audio monitoring in operating room
- With web control function, transmitter can be controlled through web page
- Digital Infrared Radiator can be turned off remotely via RS-232 port
- With the function of synchronous shutdown of the radiator and the transmitter
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MC/16BD accepts and modulates up to 16 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-8300M congress main unit through HCS-8300MO 8 Channels Audio Output Device, or be used as a stand-alone system for distributing external audio signals. HCS-5100MC/16BD is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8” LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 16 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- USB_H interfaces to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Dante interface for connecting to the Dante network to transmit input and output audio signal
- Power supply socket

Technical Specifications

System Specifications

Modulation.....	DQPSK, according to IEC 61603-7
Modulation frequency	1 to 8 MHz
	Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603-7
Frequency response.....	20 Hz to 10 kHz (-3dB) at standard quality;
	20 Hz to 20 kHz (-3dB) at perfect quality
THD at 1 kHz.....	≤0.05%
Isolation.....	≥85 dB
Dynamic range.....	≥90 dB
Weighted SNR.....	≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
 Balanced audio inputs.....-6 dBV to +18 dBV nominal
 Emergency switch connector, 2-PIN 3.81 mm Phoenix connector,
 alarm signal control input
 Headphone output.....32 Ohm to 2 kOhm
 HF input/output.....75 Ohm
 Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
 Power consumption.....Maximum 25 W

Mechanical

Mounting.....Brackets for 19" rack mounting or fixing to a table top;
 detachable feet for free-standing use on a table top
 Dimensions h x w x d (mm).....88 x 480 x 418
 Weight.....6.6 kg
 Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MC/16BD.....16 CHs Digital Infrared
 Transmitter (Dante interface)

HCS-5100MC/40BD 40 CHs Digital Infrared Transmitter



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- DQPSK digital modulation/demodulation technology
- Capable of distributing a maximum of 16 audio channels
- Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls
- Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues
- Transmitting in 1~8 MHz frequency band eliminates disturbance from high frequency lighting systems
- Each audio channel can be assigned a language name for easy identification
- Flexible configuration of channels and channel quality modes:
 - ◆ Mono, standard quality, maximum 40 channels
 - ◆ Mono, perfect quality, maximum 20 channels
 - ◆ Stereo, standard quality, maximum 20 channels
 - ◆ Stereo, perfect quality, maximum 10 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels
- Automatic synchronization to the number of channels in use by the system
- “Bypass” mode for distribution of signals from another transmitter allows multiple rooms to be used
- During adjournment, music mode can be used to feed music to all channels
- Independent test facility: self-generates diverse frequencies for system debugging
- Built-in infrared emitters in transmitter for audio monitoring in operating room
- With web control function, transmitter can be controlled through web page
- Digital Infrared Radiator can be turned off remotely via RS-232 port
- With the function of synchronous shutdown of the radiator and the transmitter
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MC/40BD accepts and modulates up to 16 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-8300M congress main unit through HCS-8300MO 8 Channels Audio Output Device, or be used as a stand-alone system for distributing external audio signals. HCS-5100MC/40BD is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8” LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 40 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- USB_H interfaces to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Dante interface for connecting to the Dante network to transmit input and output audio signal
- Power supply socket

Technical Specifications

System Specifications

Modulation.....	DQPSK, according to IEC 61603-7
Modulation frequency	1 to 8 MHz
	Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603-7
Frequency response.....	20 Hz to 10 kHz (-3dB) at standard quality;
	20 Hz to 20 kHz (-3dB) at perfect quality
THD at 1 kHz.....	≤0.05%
Isolation.....	≥85 dB
Dynamic range.....	≥90 dB
Weighted SNR.....	≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
 Balanced audio inputs.....-6 dBV to +18 dBV nominal
 Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
 alarm signal control input
 Headphone output.....32 Ohm to 2 kOhm
 HF input/output.....75 Ohm
 Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
 Power consumption.....Maximum 25 W

Mechanical

Mounting.....Brackets for 19" rack mounting or fixing to a table top;
 detachable feet for free-standing use on a table top
 Dimensions h x w x d (mm).....88 x 480 x 418
 Weight.....6.6 kg
 Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MC/40BD.....40 CHs Digital Infrared
 Transmitter (Dante interface)

HCS-5100MC/40B 40 CHs Digital Infrared Transmitter



Features

- Compliant with ISO 22259
- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- DQPSK digital modulation/demodulation technology
- Capable of distributing a maximum of 40 audio channels
- Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls
- Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues
- Transmitting in 1~8 MHz frequency band eliminates disturbance from high frequency lighting systems
- Each audio channel can be assigned a language name for easy identification
- Flexible configuration of channels and channel quality modes:
 - ◆ Mono, standard quality, maximum 40 channels
 - ◆ Mono, perfect quality, maximum 20 channels
 - ◆ Stereo, standard quality, maximum 20 channels
 - ◆ Stereo, perfect quality, maximum 10 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels
- Automatic synchronization to the number of channels in use by the system
- “Bypass” mode for distribution of signals from another transmitter allows multiple rooms to be used
- During adjournment, music mode can be used to feed music to all channels
- Independent test facility: self-generates diverse frequencies for system debugging
- Built-in infrared emitters in transmitter for audio monitoring in operating room
- With web control function, transmitter can be controlled through web page
- Digital Infrared Radiator can be turned off remotely via RS-232 port
- With the function of synchronous shutdown of the radiator and the transmitter
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MC/40B accepts and modulates up to 40 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-8300M congress main unit through HCS-8300MO 8 Channels Audio Output Device, or be used as a stand-alone system for distributing external audio signals. HCS-5100MC/40B is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- 2.8" LCD displays status and menu of the system configuration, supporting multi language menu
- One operation knob` for configuration
- Standby switch with indicator
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 40 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- USB_H interfaces to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Power supply socket

Technical Specifications

System Specifications

Modulation.....	DQPSK, according to IEC 61603-7
Modulation frequency	1 to 8 MHz
	Carriers 0 to 5; 2 to 6 MHz, according to IEC 61603-7
Frequency response.....	20 Hz to 10 kHz (-3dB) at standard quality;
	20 Hz to 20 kHz (-3dB) at perfect quality
THD at 1 kHz.....	≤0.05%
Isolation.....	≥85 dB
Dynamic range.....	≥90 dB
Weighted SNR.....	≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
 Balanced audio inputs.....-6 dBV to +18 dBV nominal
 Emergency switch connector, 2-PIN 3.81 mm Phoenix connector,
 alarm signal control input
 Headphone output.....32 Ohm to 2 kOhm
 HF input/output.....75 Ohm
 Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
 Power consumption.....Maximum 25 W

Mechanical

Mounting.....Brackets for 19" rack mounting or fixing to a table top;
 detachable feet for free-standing use on a table top
 Dimensions h x w x d (mm).....88 x 480 x 418
 Weight.....6.6 kg
 Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MC/40B.....40 CHs Digital Infrared Transmitter

System Connection

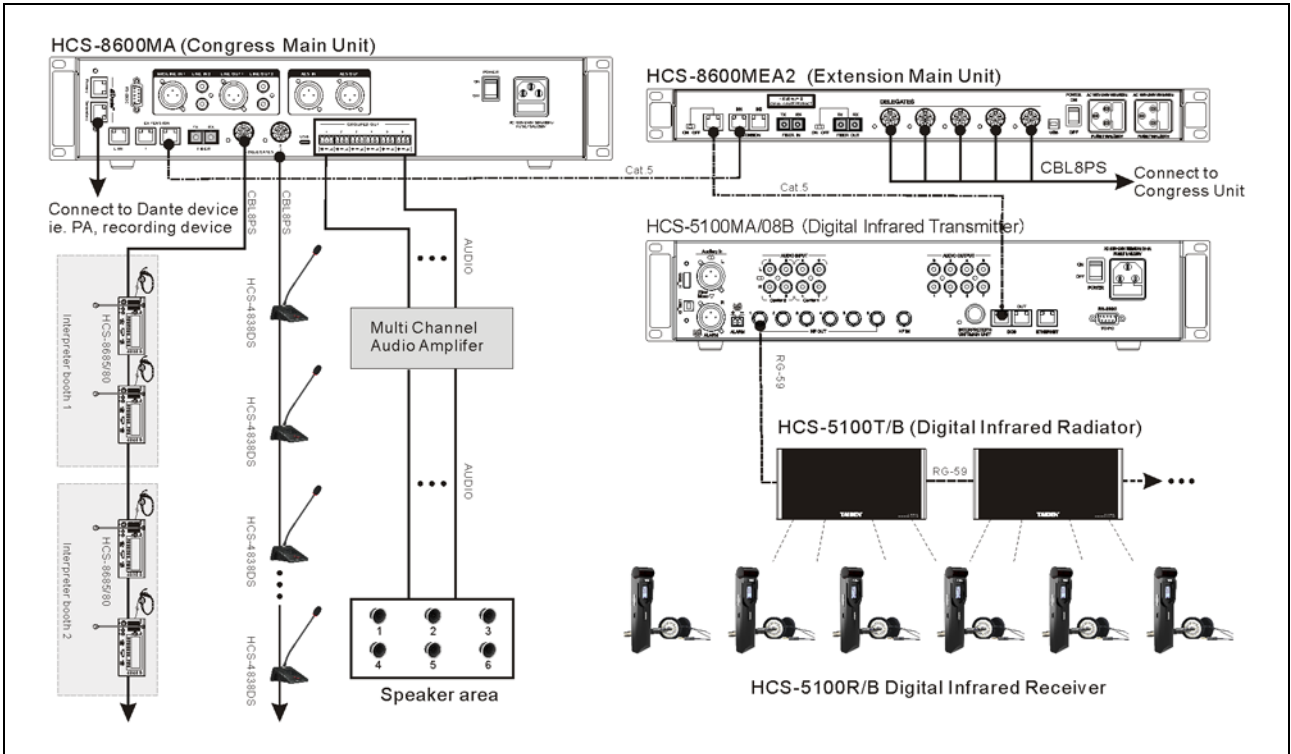


Figure HCS-5100MA/B transmitter connecting with HCS-8600 series Congress Main unit

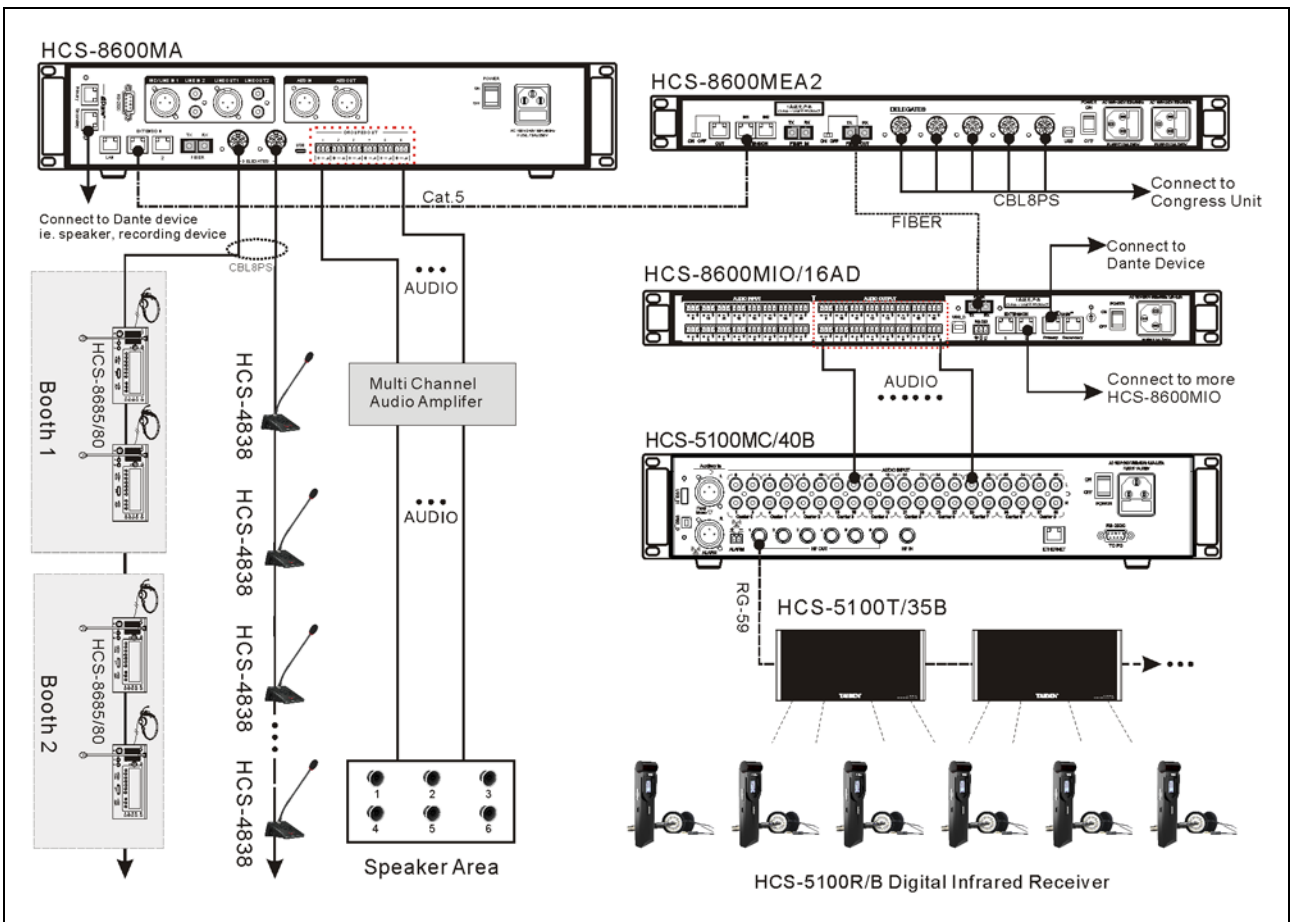


Figure HCS-5100MC/B transmitter connecting to HCS-8600M congress main unit through HCS-8600MIO

HCS-5100MA/16F 16 CHs Digital Infrared Transmitter



Features

- Compatible with any other IR simultaneous interpretation system compliant to IEC 61603-7
- DQPSK digital modulation/demodulation technology
- Capable of distributing a maximum of 16 audio channels
- Conference hall privacy; the congress venue itself acts as a barrier to infrared signals escaping and being overheard, as infrared is unable to pass through opaque objects such as walls
- Suitable for various kinds (small/medium/large international) of conference halls and outdoor venues
- Transmitting in 1~8 MHz frequency band eliminates disturbance from high frequency lighting systems
- Each audio channel can be assigned a language name for easy identification
- Flexible configuration of channels and channel quality modes:
 - ◆ Mono, standard quality, maximum 16 channels
 - ◆ Mono, perfect quality, maximum 8 channels
 - ◆ Stereo, standard quality, maximum 8 channels
 - ◆ Stereo, perfect quality, maximum 4 channel
- Adjustable sensitivity for each input to enable fine tuning of audio levels, support levels indicating of audio input
- Automatic synchronization to the number of channels in use by the system
- “Bypass” mode for distribution of signals from another transmitter allows multiple rooms to be used
- During adjournment, music mode can be used to feed music to all channels
- Independent test facility: self-generates diverse frequencies for system debugging
- Built-in infrared emitters in transmitter for audio monitoring in operating room
- With DCS interface and 6P-DIN connector for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit directly
- With 16 (1+15) audio output channels for recording
- With web control function, transmitter can be controlled through web page
- Universal mains power facility allows worldwide use

The transmitter is the heart of the HCS-5100Plus system. HCS-5100MA/16F accepts and modulates up to 16 unbalanced audio signals onto carrier waves which are transmitted to radiators located in the room. It can either be connected to HCS-4100M/50/ HCS-8300M/ HCS-4800M/ HCS-8600M congress main unit directly, or be used as a stand-alone system for distributing external audio signals. HCS-5100MA/16F is suitable for either tabletop or 19-inch rack mounting using. Four feet (for tabletop) and two brackets (for rack mounting) are supplied.

Controls and Indicators

- Graphic LCD with back-lighting displays status and menu of the system configuration, supporting multi language menu
- Four buttons for configuration
- Standby switch with indicator
- Monitor channel select knob
- Monitor volume control knob
- Mini IR radiators

Interconnections

- Ø 3.5 mm jack for stereo monitor earphone
- 2 female XLR connectors for external audio inputs to connect auxiliary balanced audio signals such as music, floor language or emergency audio signal
- 8 audio signal output connectors (RCA sockets) for output DCS multi-channel audio
- 8 audio signal input connectors (RCA sockets) to connect external unbalanced audio input signals
- 6 BNC connectors for output HF signal to radiator. To each connector, up to 30 radiators can be connected
- 1 BNC connector for receiving HF signal from another transmitter
- 6P-DIN connector for connecting to Interpreter Unit or HCS-8300M or HCS-4100M/50 Congress Main Unit
- DCS interface (2×RJ45 standard socket) for connecting to HCS-8300M or HCS-4100M/50 Congress Main Unit
- USB_H interface to upgrade system and to save system parameters.
- Ethernet and RS232 ports for connection to computer
- Emergency signal interface: when the public emergency system is active, alarm signal can be fed to all channels automatically
- Power supply socket

Technical Specifications

System Specifications

Modulation.....DQPSK, according to IEC 61603-7
 Modulation frequency 1 to 8 MHz
 Carriers 0 to 5;2 to 6 MHz, according to IEC 61603-7
 Frequency response.....20 Hz to 10 kHz (-3dB) at standard quality;
 20 Hz to 20 kHz (-3dB) at perfect quality
 THD at 1 kHz.....≤0.05%
 Isolation.....≥80 dB
 Dynamic range.....≥90 dB
 Weighted SNR.....≥85 dBA

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
 Balanced audio inputs.....-6 dBV to +18 dBV nominal
 Emergency switch connector.....2-PIN 3.81 mm Phoenix connector,
 alarm signal control input
 Headphone output.....32 Ohm to 2 kOhm
 HF input/output.....75 Ohm
 Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
 Power consumption.....Maximum 25 W

Mechanical

Mounting.....Brackets for 19" rack mounting or fixing to a table top;
 detachable feet for free-standing use on a table top
 Dimensions h x w x d (mm).....99 x 430 x 325
 Weight.....7.5 kg
 Color.....White (PANTONE 420 C)

Ordering Information

HCS-5100MA/16F.....16 CHs Digital Infrared Transmitter
 (compatible with HCS-4100M/ HCS-8300M/
 HCS-4800M/ HCS-8600M or HCS-8385N
 interpreter unit)

System Connection

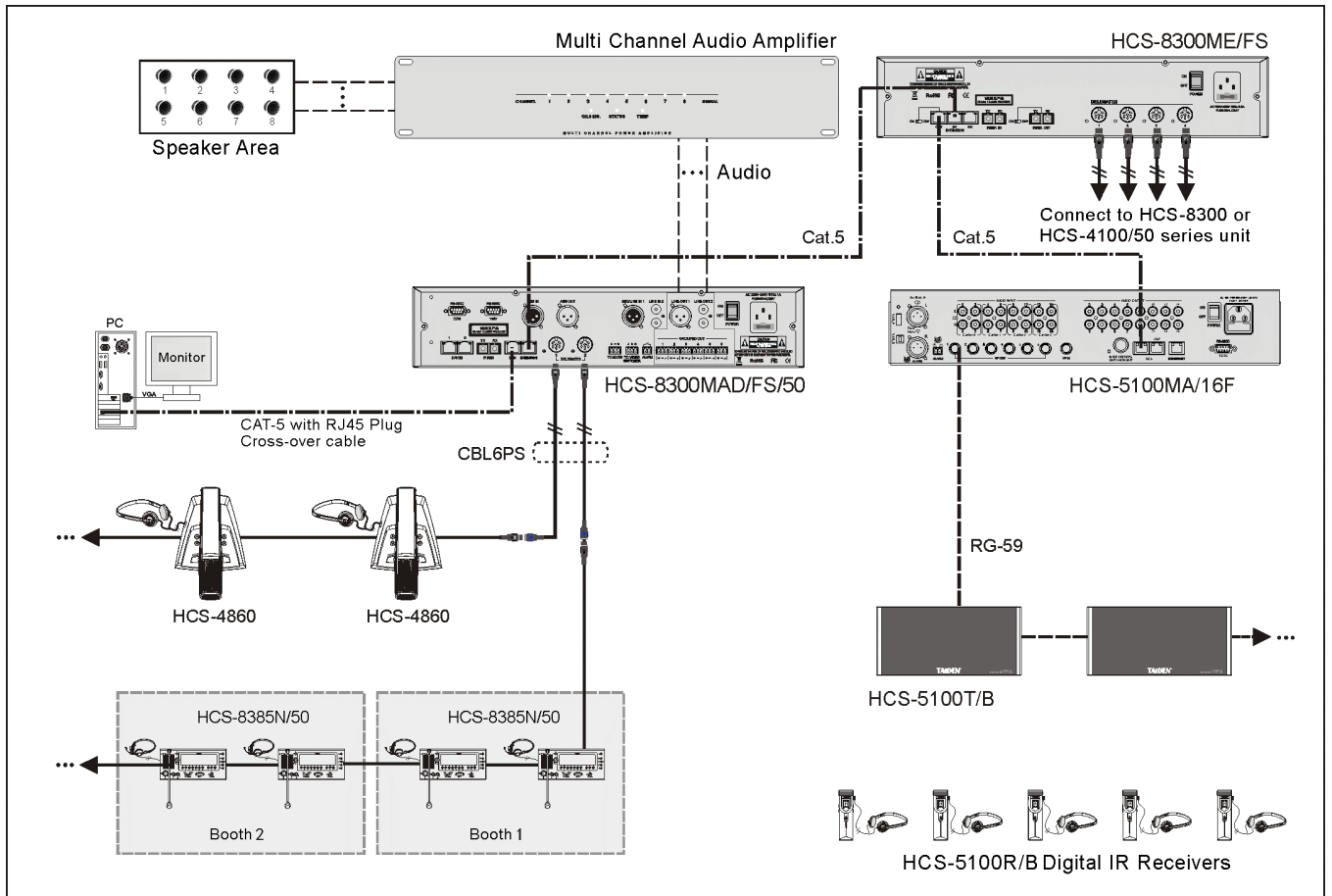


Figure HCS-5100MA/16F transmitter connecting to HCS-8300M congress main unit

Electrical

Unbalanced audio inputs.....-12 dBV to +12 dBV nominal
Balanced audio inputs.....-6 dBV to +18 dBV nominal
Emergency switch connector, 2-PIN 3.81 mm Phoenix connector,
alarm signal control input
Headphone output.....32 Ohm to 2 kOhm
HF input/output.....75 Ohm
Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption.....Maximum 25 W

Mechanical

Mounting.....Brackets for 19" rack mounting or fixing to a table top;
detachable feet for free-standing use on a table top
Dimensions h x w x d (mm).....88 x 480 x 418
Weight.....6.6 kg
Color.....Black (PANTONE 419 C)

Ordering Information

HCS-5100MC/16A.....16 CHs Digital Infrared Transmitter

System Connection

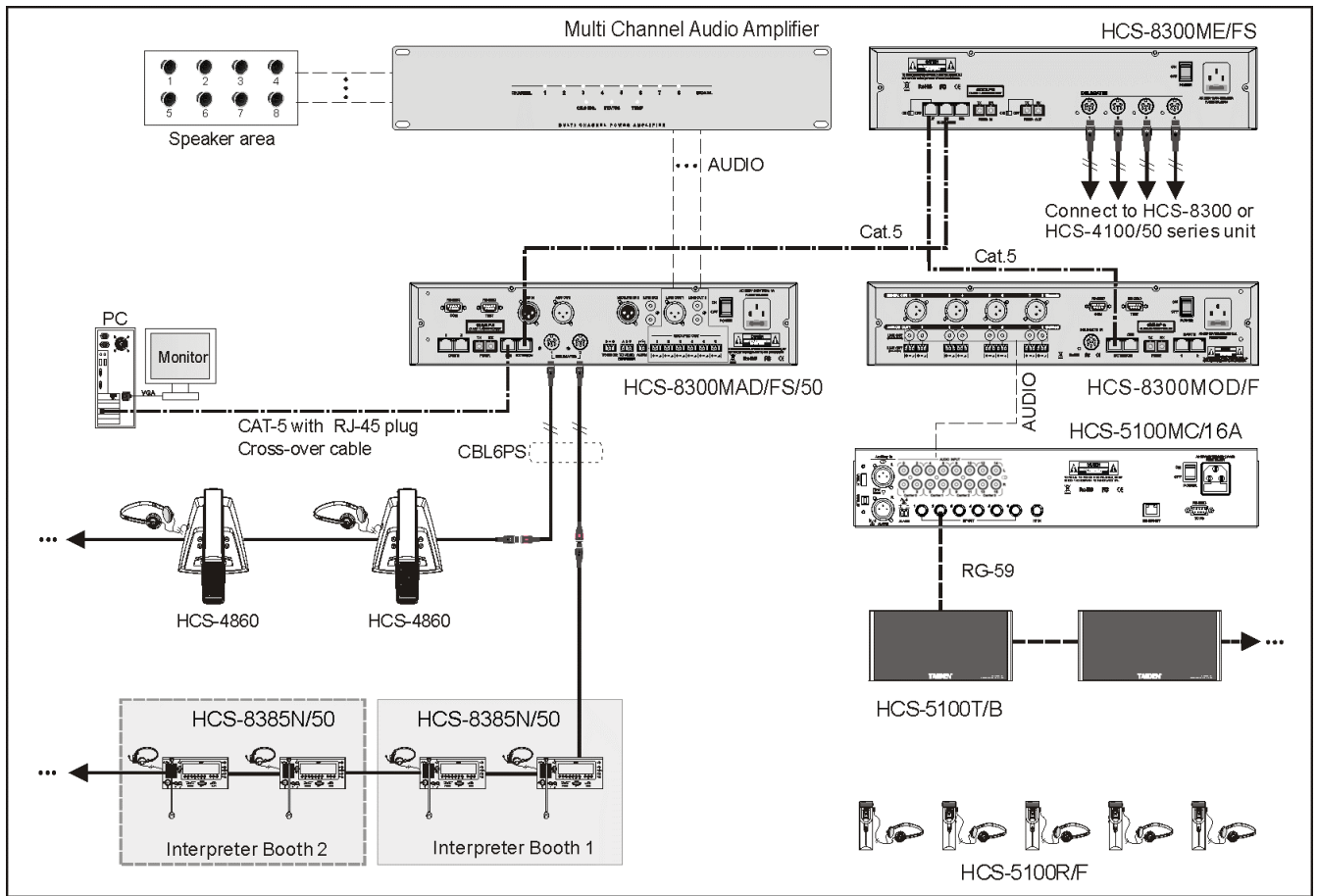


Figure 3.11 HCS-5100MC/16A transmitter connecting to HCS-8300M congress main unit through HCS-8300MO

HCS-5100PA Headphone



Features

- Used with the receiver or a conference unit
- Hi-Fi sound quality
- 32 Ω x 2, Ø 3.5 mm stereo plug
- Frequency response: 20 Hz to 20 kHz
- Sensitivity: ≥108 dBA/1 mW
- Weight: 70 g

Ordering Information

HCS-5100PA.....Headphone(180° plug)

HCS-5100PA-PAD Sponge Ear Pads



Features

- Used for headphone
- 50 pairs per package
- Color: black

Ordering Information

HCS-5100PA-PAD.....Sponge Ear Pads
(for HCS-5100PA, 50 pairs / package)

HCS-5100BAT-Li Li-ion Rechargeable Battery Pack



Features

- Li-ion rechargeable battery pack
- Suitable for HCS-5100R/F series digital infrared receiver

Technical Specifications

Electrical

Voltage.....3.7 V
Capacity.....1500 mAh

Mechanical

Dimensions h x w x d (mm).....48 x 29 x 15
Weight.....45 g
Color.....Blue

Ordering Information

HCS-5100BAT-Li.....Li-ion Rechargeable Battery Pack

**HCS-5100CHG/60A
IR Receiver Charging Case**



Features

- Used for charging IR receivers (HCS-5100R)
- Charges 60 pcs of IR receivers per charging
- Uses universal power supply with automatic voltage matching

Controls and Indicators

- Power switch
- Charging indicator on the receiver

Interconnections

- Power output interface
- Power input interface
- Charging lattices

Technical Specifications

Electrical

Power supply.....AC 100 V -240 V 50/60 Hz
 Power consumption.....280 W (60 receivers charging)
 Power consumption (standby).....7 W (no receiver in charging case)

Mechanical

Dimensions h x w x d (mm).....240 x504 x376
 Net weight.....11.3 kg (w/o IR receiver)
 Color.....Blue

Ordering Information

HCS-5100CHG/60A.....IR Receiver Charging Case (60 pcs/case)

**HCS-5100KS
IR Receiver Storage Case**



Features

- Used for storing and transporting IR receivers
- Every case can store up to 100 IR receivers

Technical Specifications

Mechanical

Dimensions h x w x d (mm).....215x 702 x 325
 Net weight.....6.0 kg (w/o IR receiver)
 Gross weight.....14.0 kg (w/100 pcs IR receivers, w/o battery)
 Color.....Blue

Ordering Information

HCS-5100KS.....IR Receiver Storage Case (100 pcs/case)