

HCS-5100R/04F Digital Infrared Receiver



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 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 (2×AA 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/04F is a infrared receiver with 4 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 | |
| 2×AA 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 InformationHCS-5100R/04F..... 4 CHs Digital Infrared Receiver
(LCD, language display,
optional rechargeable battery
pack or 2xAA alkaline cells,
excl. battery, black)