HCS-5100RA/F
Digital Infrared Receivers

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.

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 270º 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 (2×AA 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**

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	270º
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 × 46 × 24

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)