HCS-5100R
Digital Infrared Receivers

HCS-5100R is a series of IR receivers, which can receive up to 32 language channels. Both rechargeable Ni-MH 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.

Features

- **Compliant to IEC 61603-7 and IEC 60914**
- **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 2~8 MHz frequency band eliminates disturbance from high frequency lighting systems**
- **Channel selection via up/down button, at most 4,8,16 or 32 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 thenumber 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 single earphone (EP-820AS/EP-828/EP-829SW) or headphone (HCS-5100PA /HCS-5100PB) 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 Ni-MH rechargeable battery pack (not included)**
- **No power consumption when headphone is disconnected**
- **Measurement mode for easy checking of radiator coverage**
- **Can be equipped with alarm system to prevent loss**
- **Can work with HCS-5300 digital infrared wireless conference system and achieve up to 1+3 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
- Charging contacts

Technical Specifications
System Specifications

Modulation	DQPSK, according to IEC 61603-7
Modulation frequency	
Carriers 0 to 5	2 to 6 MHz, according to IEC 61603-7
Carriers 6 and 7	up to 8MHz
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	>80 dB
Weighted SNR	>80 dBA
Input range (adjustable)	-12 dBV ~ +12 dBV

Electrical

IR irradiance level	4mW/m
Angle of sensitivity	270º
Headphone output level at 2.4	V450 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	>80 dBA
Supply voltage	1.8 V to 3.6 V, nominal 2.4 V
Power consumption	
Normal (at 2.4 V)	38 mA (32 Ohm headphone)
Headphone jack unplugged	0mA
Battery life	
2×AA alkaline cells	70 hours
Rechargeable battery pack	42 hours

Mechanical

Dimensions h x w x d (mm)	155 × 46 × 24
Weight Excl. batteries	80 g
Incl. batteries	135 g
Color	Black/White

HCS-5100RA
Digital Infrared Receivers

HCS-5100RA is a series of IR receivers, which can receive up to 32 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 to IEC 61603-7 and IEC 609**
- **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 2~8 MHz frequency band eliminates disturbance from high frequency lighting systems**
- **Channel selection via up/down button, at most 4,8,16 or 32 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 single earphone (EP-820AS/EP-828/EP-829SW) or headphone (HCS-5100PA/HCS-5100PB) 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 radiato coverage**
- **Can be equipped with alarm system to prevent loss**
- **Can work with HCS-5300 digital infrared wireless conference system and achieve up to 1+3 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, according to IEC 61603-7
Modulation frequency	
Carriers 0 to 5	2 to 6 MHz, according to IEC 61603-7
Carriers 6 and 7	up to 8MHz
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	>80 dB
Weighted SNR	>80 dBA
Input range (adjustable)	-12 dBV ~ +12 dBV

Electrical

IR irradiance level	4mW/m per carrier
Angle of sensitivity	270º
Headphone output level at 2.4 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	>80 dBA
Supply voltage	1.8 V to 3.6 V, nominal 2.4 V
Power consumption	
Normal (at 2.4 V)	38 mA (32 Ohm headphone)
Headphone jack unplugged	0mA
Battery life	70 hours

Mechanical

Dimensions h x w x d (mm)	155 × 46 × 24
Weight	
Excl. batteries	80 g
Incl. batteries	135 g
Color	Black/White