

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 single earphone (EP-820AS/EP-829/EP-829SW) or headphone (HCS-5100PA/EP-960BH) 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)

HCS-5100R_W/32F	32 CHs Digital Infrared Receiver (LCD, language display, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, white)
HCS-5100R_W/40F	40 CHs Digital Infrared Receiver (LCD, language display, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, white)

Ordering Information

HCS-5100R/04F	4 CHs Digital Infrared Receiver (LCD, language display, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, black)
HCS-5100R/08F	8 CHs Digital Infrared Receiver (LCD, language display, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, black)
HCS-5100R/16F	16 CHs Digital Infrared Receiver (LCD, language display, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, black)
HCS-5100R/32F	32 CHs Digital Infrared Receiver (LCD, language display, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, black)
HCS-5100R/40F	40 CHs Digital Infrared Receiver (LCD, language display, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, black)
HCS-5100R_W/04F	4 CHs Digital Infrared Receiver (LCD, language display, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, white)
HCS-5100R_W/08F	8 CHs Digital Infrared Receiver (LCD, language display, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, white)
HCS-5100R_W/16F	16 CHs Digital Infrared Receiver (LCD, language display, optional rechargeable battery pack or 2xAA alkaline cells, excl. battery, white)

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 single earphone (EP-820AS/EP-829/EP-829SW) or headphone (HCS-5100PA/EP-960BH) 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
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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

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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
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)