

HCR-300

UHF TRUE DIVERSITY ENG
WIRELESS RECEIVER



HCR-300 is a wireless microphone system specially designed for professional cameras. At the same time, the intelligent channel diversity receiver can be divided into single channel true diversity and dual channels antenna diversity switching. Mainly used in professional video cameras, which is also attached with camera adapters for Sony and Panasonic can work with wireless handheld mics or wireless bodypack transmitters, the camera can avoid the ties of the microphone signal line during recording, make the distance between the audio and video more closely combined, achieve the recording effect of the original sound reproduction, and ensure the camera's sound quality. Motorized operation, more flexible, convenient and safe to use.

Key Features

Brand New Design

- With sturdy and waterproof aluminum alloy shell, it can meet professional quality requirements. The new technology OLED display screen can display the working status of transmitter battery, radio frequency and audio at the same time. wireless connection and providing high-fidelity audio output
- Adopt SMA flexible antenna and antenna connector with adjustable angle of 1/4 wavelength.
- With "Panasonic" and "SONY" two kinds of output modules that are easy to remove and replace the fixed bracket, it is easy to install and use on different cameras.
- Equipped with ultra-quiet electronic touch switch, which can avoid the mechanical sound amplification of the switch.

DSP DSP Audio Extension Algorithm

- Adopt Relacart's own DSP audio expansion algorithm to minimize the noise brought by the wireless transmission process and restore the best sound. The audio output of the receiver can be set to output in multiple modes (Both Mix, Mix 1, Mix 2, Audio Split): The handheld microphone has a simple design, is dexterous and lightweight, showing a humanized soft grip.

PLL PLL Phase Locked Oscillation Circuit

- Stable PLL phase-locked oscillator circuit, combined with the "noise detection" mute control function, can effectively block the noise and radio frequency interference in the working environment.

True Diversity Reception

- Ultra-wideband UHF 521.25-936.85MHz, true diversity reception.

[AFS] Automatic Frequency Search

- It has the function of [AFS] to automatically search for the cleanest and freest frequency in the actual environment.

Attached Adapters for Big Brand Camera

- Camera adapters for Sony® and Panasonic® (Unislot)

High Precision Circuit

- The hardware circuit of the whole system is controlled by a microcomputer, and the advanced computer technology is used to Calculate the frequencies that do not interfere with each other, so that the performance of the whole system is more stable, And it is not easy to appear frequency offset, frequency interruption and other phenomena.

Long Battery Life

- Precise low-consumption circuit design makes the battery life twice as long as that of ordinary microphones.

Product Specification



HCR-300

UHF True Diversity ENG
Wireless Receiver

Reception Mode:	True diversity reception
Carrier Frequency Band:	521.25MHz~936.85MHz
Frequency Stability:	±0.005%
Modulation Method:	FM
Effective Working Distance:	generally 100 meters (open space)
Oscillation Mode:	PLL phase locked frequency synthesis
Sensitivity:	S/N >76 dB at 6 dBuV input at offset equal to 25 KHz
Bandwidth:	32MHz
Max.Deviation Range:	±75KHz
Sampling Rate:	ADC 24-bit, DAC 24-bit, sampling rate 96 KHz
Comprehensive S/N ratio:	>105dB
Comprehensive T.H.D.:	<0.7%@1KHz
Comprehensive Frequency Response:	80Hz-18KHz ±3dB
Output Interface:	Panasonic/Sony/mini XLR
Power Supply:	DC7V/280mA-18V/220mA
Current Consumption:	180mA (typ.)
Working Temperature:	-25°C ~ 60°C
Dimensions(mm):	110(H)×73(W)×28(D)
Weight:	Approximately 210g



UH-2

Wireless Handheld
Microphone

- Handheld wireless microphone, simple design style, durable metal material, high contrast OLED display, built-in gain adjustment function, humanized mechanical switch, microphone module design, and a variety of characteristics of the sound head module can be matched, suitable for speech, singing and other occasions.

Carrier Frequency Range:	470MHz-960MHz
Harmonic Radiation:	<45dBm
Bandwidth:	Single-band 134MHz
Modulation Mode:	FM
Audio Compression:	Relacart classic audio compression circuit
Capsule:	Dynamic or Condenser, Cardioid
RF Power Output:	10mW/30mW
Battery:	AA x2
Current Consumption:	130mA(typical)
Battery Life:	Approximately 8 hours
Dimensions(mm):	52(Φ)×255(L)
Weight (without battery) :	Approximately 235g

- Contracted design style, solid and dural metal material, high contrast OLED display. Built-in gain adjustment function.
- Standard Mini XLR microphone interface, suitable for the headset mic and clip mic of a variety of well-known brand in the market. Suitable for application in speech, singing and other occasions

Carrier Frequency Range:	470MHz-960MHz
Harmonic radiation :	<45dBm
Bandwidth:	Single-band 134MHz
Modulation Mode:	FM
Audio compression :	Relacart classic audio compression circuit
Input Connector	4-pin mini-XLR connector, Input gain 3 levels adjustable
RF Power Output:	10mW / 30mW
Battery:	AA x2
Current Consumption :	130mA(typical)
Battery life:	Approximately 8 hours
Dimensions(mm):	84(H)×66(W)×23(D)
Weight (without battery) :	Approximately 155g

UT-2

Wireless Bodypack
Transmitter