

# HR-32S

HR SINGLE-CHANNEL TRUE DIVERSITY  
WIRELESS MICROPHONE SYSTEM



The HR-32S is a single-channel wireless microphone system integrating a spectrum analyzer and wireless audio transmission. The spectrum analyzer serves to visualize the system's frequencies, ensuring optimal controllability and stability in any performance setting, and delivering pristine, immersive sound quality. The HR-32 series combines digital audio with an analog FM radio link to provide outstanding audio quality and the exemplary RF performance of the finest analog wireless systems with the low noise and low audio distortion of digital wireless, offering 130 MHz switching bandwidth (depending on region), flexible frequency management, upgradeable WireMicX Wireless System Management Software, reliable, simple yet sophisticated technology, and rugged housing for protection. This fully functional and flexible wireless microphone system provides professionals with more excellent choices and fully proves Relacart's professionalism in all kinds of performances.

## Key Features



### Dante Network Audio Protocol

- With Dante network audio output, it can automatically identify the Dante channel of the product, and its audio signal can be output to any Dante audio equipment



### AFS(Automatic Frequency Selection)

- With AFS function, can automatically search for clean and interference-free frequencies in the actual environment. Enter the setting menu and select the AFS function, and it will automatically search and lock on a interference-free in the actual working environment.



### WireMicX Wireless Management System

- WireMicX Wireless System Management Software, can be connected to PC network to monitor and search for radio wave interference points in the actual environment of the scene and frequency dead spots on the stage.



### DSP Audio Digital Extension

- High-speed DSP chip, 24-bit high-performance ADC, DAC and self-developed digital audio extension algorithm are used to reduce the noise caused by wireless transmission.



### PLL Frequency Synthesis Oscillation Circuit

- The stable PLL phase-locked oscillation circuit, combined with the "noise detection" mute control function, can effectively block the noisy radio frequency interference in the working environment.



### Signal Frequency Visualization

- The radio frequency details of the current environment can be monitored in real time on the display screen of the receiver, and the interference-free frequency can be viewed and selected through the screen.

## Product Specification



### HR-32S

Single Channel Wireless Receiver

- HR-32S Single Channel True Diversity Wireless Microphone System has innovative wireless audio technology and unique features. PLL Phase Locked Loop circuit and equipped with frequency visualization screen, making the signal is fully protected.
- With Dante network audio output.

Main Frame Size:	EIA Standard Rack 1U
Receiving Channel:	Single Channel
Receiving Mode:	True Diversity
Frequency Reliability:	±0.005%(-10~50°C)
External Antenna Interface:	BNC, DC 12-18V/150mA output
External Audio Interface:	Mixed XLR output, independent channel XLR output
Ethernet Port:	Support Dante communication protocol
Receiving Frequency Band:	521.25MHz-936.85MHz
Working Mode:	PLL frequency synthesis oscillation and secondary mixing reception technology
Receiving Sensitivity:	When the offset is equal to 25KHz and 5dBu is input, S/N>60dB
Bandwidth:	Single channel 130MHz (depending on the region)
Max. Deviation:	±50KHz
Audio Sampling Rate:	96KHz 24-bit
Audio Extension:	Relacart DSP digital audio extension algorithm
Comprehensive S/N:	>105dB
Comprehensive T.H.D:	<0.7%@1KHz
Frequency Response:	65Hz-18KHz ±3dB
Working Range:	100M Typical(in open space)
Power Mode:	DC 12-18V
Dimension(mm):	410(W)×206(D)×43(H)



### H-32

Wireless Handheld Microphone

- Specially hardened aluminum housing provides light weight and high durability
- Detachable microphone capsule module design, can work with the latest version dynamic and condenser microphone capsule module of Relacart HR series, and the mic body is compatible with many mic capsule module with standard interface of Sennheiser.
- The high-brightness OLED display can clearly display the working status of the microphone in any scene
- Hidden button design to prevent wrong operation during use
- An illuminated light touch switch on the tail with a mute function, when the microphone is in low battery, the light will turn red and flash to remind
- The gain and RF strength of the microphone can be adjusted according to the needs of the scene through the menu of the microphone

Carrier Frequency Range:	521.25MHz~936.85MHz
Harmonic Radiation:	<45dBm
Bandwidth:	Single channel 134MHz (depending on the region)
Modulation:	FM
Audio Compression:	Relacart classic audio compression circuit
Microphone Element:	Dynamic/Condenser(removable)
RF Output Power:	10mW/50mW
Battery:	Aa×2
Current Consumption:	130mA(Typical)
Battery Current/ Life:	Approximately 10 hours(alkaline)
Dimension(mm):	53(Φ) ×275(L)
Weight:	Approximately 322g(w/o battery)



### T-32

Wireless Bodypack Transmitter

- The bodypack transmitter is one of the smallest mini bodypack in the world. It is made of all alloys and is light and durable.

Carrier Frequency Range:	521.25MHz~936.85MHz
Oscillation:	PLL synthesized
Harmonic Radiation:	<50dBm
Max. Deviation:	±45KHz
Input Connector:	4-pin mini XLR connector
RF Output Power:	10mW/40mW
Battery:	Aa×1
Current Consumption:	205mA(Typical)
Battery Current/ Life:	Approximately 5 hours(alkaline)
Dimension(mm):	66(H)×63(W)×20(D)
Weight:	Approximately 85g(w/o battery)