

# UR-290 | DUAL-CHANNEL TRUE DIVERSITY WIRELESS MICROPHONE SYSTEM



UR-290D is a dual-channel true diversity wireless microphone system condensed from the essence of Relacart's many years of technology. It has advanced technology, stable performance and exquisite design. It can be connected to MagicEQ professional audio software for adjustment. The bandwidth is up to 64MHz, wider than similar products on the market, with more frequency to choose from; the volume is adjustable in 1dB step, three levels of RF power are optional, multi-level SQ is optional, and a handheld microphone charging base is optional. It is more convenient; the 1.14-inch TFT color display has higher display quality. It is fully suitable for high-demand business negotiation venues, multi-functional halls, hotels, conference rooms and small to medium-sized performance venues.

## Key Features

### MagicEQ™

- The connection software has a built-in digital equalization processor, with 9 tone modes to choose from, 7 of which are fixed modes, covering various international brand tone effects, and 2 custom modes. The tone can be adjusted freely through dedicated operating software to achieve individual needs, desired effect.

### SQ multi-level adjustable

- The multi-level SQ value can be adjusted freely, and the mute threshold can be adjusted according to the actual use situation on site. It can ensure high-quality sound pickup regardless of short distance or long distance, and can be used in various occasions.

### RF power multi-level adjustable

- The RF power is available in three levels: high, medium, low. Compared with other products on the market, there are more choices. Short-distance transmission can reduce power consumption, and it can also easily handle situations where long-distance transmission is required.

### Optional dual-bay chargers

- Optional contact-type dual bay charger, simply place the microphone into it for charging. Utilizing rechargeable NiMH batteries, it offers a longer lifespan compared to alkaline batteries, ensuring enhanced safety, durability, and environmental friendliness. This convenient charging method is suitable for various scenarios requiring frequent charging.

### 64MHz ultra-wide bandwidth

- The system has an ultra-wide bandwidth of 64MHz, which is wider than similar products on the market. Even when multiple sets of equipment are needed for large-scale performances, there are still enough frequencies to choose from, making it easier to avoid interference during use.

### TFT display screen

- It adopts a 1.14-inch TFT high-brightness display with rich colors and high visibility. It is easy to grasp the working status of the device and clearly displays the frequency, power, dB value, lock/unlock and other status.

### FBK Feedback Suppression Function

- It has the domestically pioneered FBK function, which can automatically and effectively prevent howling, enabling the singer to achieve a perfect performance.

## Product Specification



**UR-290**  
Dual Channel Wireless Receiver

Chassis specification:	EIA standard 1U
Receiving channel:	Dual channel
Frequency stability:	± 0.005%
Carrier frequency band:	521.25MHz-936.85MHz
Modulation method:	FM
Oscillation mode:	PLL frequency synthesis technology
Sensitivity:	When the offset is equal to 25KHz and 5dBuV is input, S/N>60dB
Band width:	64MHz (depending on region)
Maximum offset:	± 45KHz
Comprehensive S/N ratio:	>110dB
Comprehensive T.H.D:	<0.5% @ 1KHz
Frequency response:	50Hz-18KHz ± 1dB
Effective working distance:	generally 100 meters (wide range)
Power supply:	DC 12V/1A
Dimensions (mm):	410 (L) x 206 (W) x 43 (H)
Antenna interface:	Dual BNC supports+12V/150mA
Output audio interface:	6.3mm unbalanced audio output, XLR balanced audio output
Sampling rate:	96K
Weight:	Approximately 2 kg



**UH-280**  
Wireless Handheld Microphone

- Equipped with a 1.14-inch color TFT screen, clearly display status of frequency group, frequency band, battery level, dB value, lock/unlock, etc. Powered by two pc of AA battery or NiMH battery. It can be put in the dual-bay charger for charging when adopt NiMH battery. It is suitable for various occasions that require frequent charging.

Carrier Frequency Range:	521.25MHz~936.85MHz
Harmonic Radiation:	<45dBm lower than the main wave
Bandwidth:	Single channel 134MHz (depending on the region)
Modulation:	FM
Capsule:	Dynamic
RF Output Power:	high, medium, low
Volume Adjustment:	-15~+5dB, 1dB step
Battery:	Aa×2
Current Consumption:	170mA(Typical)
Battery Current/ Life:	Approximately 8 hours(alkaline)
Dimension(mm):	55(Φ) × 269(L)



**UT-280**  
Wearable Bodypack Transmitter

- It's a mini wearable bodypack transmitter with a compact appearance, light weight and durability. Equipped with a 4-pin mini XLR input port, can connect an external microphone. Powered by one pc of AA battery or NiMH battery. It can be put in the dual-bay charger for charging when adopt NiMH battery. It is suitable for speeches, meetings, education, performances and other occasions.

Carrier Frequency Range:	521.25MHz~936.85MHz
Oscillation:	PLL synthesized
Harmonic Radiation:	<45dBm lower than the main wave
Max. Deviation:	±45KHz
Input Connector:	4-pin mini XLR connector
RF Output Power:	high, medium, low
Volume Adjustment:	-15~+5dB, 1dB step
Battery:	AA×2
Current Consumption:	170mA(Typical)
Battery Current/ Life:	Approximately 8 hours(alkaline)
Dimension(mm):	65(W)×21.3(D)×75.5(H)



**RC-2**  
Dual-bay Charger

- Dual Bay Charger is suitable for Relacart rechargeable handheld transmitters and bodypack transmitters. Just put the transmitters into it for charging. It can display the current device power and has a charging completion indicator light.

Compatible transmitters:	Up to 2 × UH-280, UT-280, BG-24H, or BG-24T
<b>Compatible transmitter charging parameters:</b>	
Charging current:	Fast charge 1.1 A; slow charge 500 mA
Charging time:	3 hours = 50% charged; 6 hours = 100% charged (battery capacity: 2600 mAh)
External power supply:	DC 12V / 1A (maximum of 4 units can be connected in daisy chain)
External power supply required when connected in daisy chain:	
12V / 2A (2 units)	12V / 3A (3 units)
12V / 4A (4 units)	
<b>Compatible SONY camera battery charging parameters:</b>	
Charging current:	600 mA
Charging time:	1.5 hours = 50% charged; 3 hours = 100% charged (battery capacity: 1500 mAh)
Operating temperature range:	-18°C (0°F) to 50°C (122°F)
Storage temperature range:	-29°C (-20°F) to 74°C (165°F)
Dimensions (mm):	185 (W) × 88 (D) × 86 (H)
Weight:	Approx. 155 g