

BG-24R | WIRELESS MICROPHONE RECEIVER



Description

BG-24 is an industry-first wireless microphone system that integrates three diversity techniques: frequency diversity, time diversity, and antenna diversity. It features a sleek and durable design crafted from a strong aluminum alloy. Its bright OLED display provides clear visibility of the device's status. Optional dual-bay chargers for handheld microphones enhance charging management convenience. Operating on the 2.4 GHz frequency band, this ensures unrestricted use in any country. With Relacart's proprietary digital audio algorithms, BG-24 offers ultra-low latency transmission, making it ideal for small to medium-sized performances, business meetings, conference rooms, schools, home entertainment, and more.

Product Specification

Main Frame Size:	1U Half-Rack
Receiving Channel:	Single Channel
Reception Method:	Antenna diversity/frequency diversity/Time Diversity
Audio Format:	Relacart proprietary digital audio format
Wireless Carrier Frequency:	2.4-2.48GHz
Compatible Channels:	≥ 14
Display Channel:	LCD
Effective Distance:	50 meters (open space)
Sampling:	24bit/48kHz
Encryption:	AES-256
Delay:	≤2.9ms, ≤ 3.8ms (encryption enabled)
Dynamic Range:	≥ 110dB (A-weighted)
Frequency Response:	20Hz-20kHz(± 1dB)
Comprehensive T.H.D:	<0.1% @ 1KHz
System Gain Adjustment:	(-18~18 dB)
Audio Output Interface:	XLR balanced output, 1/4 "unbalanced output
Power Supply:	DC/12V
Current Load:	≤150mA
Dimensions(mm):	200 (L) × 200 (D) × 44 (H)

BG-24H | WIRELESS HANDHELD MICROPHONE



Description

- The casing is made of sturdy and durable aluminum alloy, and is equipped with bright OLED to clearly display working status such as frequency band, power, group, 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.

Product Specification

Audio Format:	Relacart proprietary digital audio format
Wireless Carrier Frequency:	2.4-2.48GHz
Transmission Method:	Frequency diversity
Modulation Method:	GFSK
Transmission Rate:	1Mbps
Sampling:	24bit/48kHz
Compatible Channels:	≥ 14
Display Channel:	OLED
Dynamic Range:	≥ 110dB (A-weighted)
Frequency Response:	20Hz-20kHz (± 1dB)
Sensitivity:	≤ -45dB
RF Power:	≥ 50mW
Power Supply:	Alkaline battery (AA) × 2
Current Load:	145mA (typical value)
Battery Life:	≥ 8 hours
Dimensions(mm):	55 (Φ) × 269 (L)

BG-24T | WIRELESS BODYPACK TRANSMITTER



Description

- The casing is made of sturdy and durable aluminum alloy, and is equipped with bright OLED to clearly display working status such as frequency band, power, group, 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.

Product Specification

Audio Format:	Relacart proprietary digital audio format
Wireless Carrier Frequency:	2.4-2.48GHz
Transmission Method:	Frequency diversity
Modulation Method:	GFSK
Transmission Rate:	1Mbps
Sampling:	24bit/48kHz
Compatible Channels:	≥ 14
Display Channel:	OLED
Dynamic Range:	≥ 110dB (A-weighted)
Frequency Response:	20Hz-20kHz (± 1dB)
Sensitivity:	≤ -45dB
RF Power:	≥ 50mW
Power Supply:	Alkaline battery (AA) × 2
Current Load:	145mA (typical value)
Battery Life:	≥ 8 hours
Dimensions(mm):	65 (L) x 21.3 (W) x 75.5 (H)