



IMIC-5 | UHF SINGLE CHANNEL ANTENNA DIVERSITY WIRELESS MICROPHONE SYSTEM

IMIC-5 is an antenna diversity wireless system independently developed by Relacart. It can expand the functions of automatic synchronization microphone, external central controller, page turning function. Applicable to schools and office. It is a series of products with stable function, long receiving distance, easy installation.

Product Specification



Tuning Bandwidth:	521.25MHz ~ 936.85MHz
Receiving Mode:	Super heterodyne antenna diversity receive
RF Sensitivity:	5dBuV, S/N>60dB at 25 deviation
Squelch Adjustment:	5 to 35dB in 5dB steps.
Frequency Sync:	IR Sync
Maximum Output level:	+11dBV
Output level Adjustment Range:	MUTE to +11dBV Mechanical regulation
Power Supply:	DC12V / 1A
Normal Working Current:	DV12V, 220mA
Dimensions(mm):	240 (W) × 165 (D) × 35 (H)
Net Weight:	1kg

IMIC-5
Single Channel Wireless Receiver



TM-5H
Pen-type Microphone

• TM-5H handheld microphone is novel in appearance and small in size. Its circuit adopts advanced phase-locked technology, with built-in removable lithium battery, USB-TYPE-C charging interface and laser pen. Low power consumption, continuous working time of one charge ≥ 8 hours. It can be equipped with a wireless charging station certified by Qi, and can also realize wireless charging.

RF Carrier Range:	521.25MHz~936.85MHz
Frequency Stability:	±0.005%
Operating Range (environment dependent):	50m
Companding:	Relacart's classic audio companding circuit
Audio Frequency Response:	50Hz~18KHz±3dB
Dynamic Range:	>100dB
S/N Ratio(A-Weighted):	>100dB
Total Harmonic Distortion:	<0.6%@1KHz
Operating Temperature Range:	-10°C~+50°C

Key Features

AFS(Automatic Frequency Selection)

• It still supports the "AFS" automatic frequency search function, which scans and calculates non interference working channels quickly and accurately according to the preset frequency;

Clear Sound Quality

• Equipped with Relacart classic audio companding circuit, it can reduce the noise from radio wave transmission to a minimum, and ensure the maximum pickup effect of the product.

IR Infrared

• With a shortcut button for [IR] automatic synchronization function. Just place the microphone near the front of the IR window of the receiver and press the SYNC button shortly. The transmitter automatically synchronizes to the receiver's operating frequency accurately.

Multifunction Design

• IMIC-5 can expand the functions of automatic synchronization microphone, external central controller, page turning function.
 • Equipped with expansion synchronizer TM-5-IR, as long as the handheld transmitter TM-5-H is near the front of TM-5-IR about 30cm, the transmitter will automatically synchronization with the same frequency with receiver.
 • The BNC antenna can be connected to coaxial antennas and extended antennas, and provides antenna power supply voltage, supports connection to Relacart Antenna Distribution System, expands multiple devices by the antenna and enhances the reception distance and signal stability

Super Wide Frequency Range

• 128MHz wideband transmitter, four different frequency band receivers can be optional interoperability, which greatly facilitates project debugging and management.
 • Have a channel group mode, there are 50 channel groups in each frequency band for user selection.

Anti-Interference

• Use antenna diversity FM super-heterodyne reception to ensure the stability of the received RF signal and the receiver anti-interference; the operating frequency range is 521MHz ~ 938MHz according to the radio wave control laws and regulations of various countries;

Compact size and convenient

• TM-5-H handheld microphone has a novel appearance, miniature and light weight. The circuit uses advanced PLL technology, built-in removable lithium battery, USB-TYPE-C charging interface, and laser pointer. Low power consumption. It can work continuously for more than 8 hours on a single charge. It can be equipped with Qi-certified wireless charger and wireless charging.
 • The receiver is equipped with a beautiful LCD display, which can clearly display the receiver 23 information, such as channel, RF and AF signals.
 • Comply with RS-485 serial communication protocol

