IMIC-6D

DUAL CHANNEL TRUE DIVERSITY WIRELESS MICROPHONE SYSTEM FOR EDUCATION

IMIC
WIRELESS MICROPHONE
SYSTEMS FOR EDUCATION

Dante®

MiClass Hub

IMIC-6D is a true diversity dual-channel wireless microphone system developed by Relacart for educational applications. It features two XLR inputs for connecting additional wired microphones (with 48V phantom power), Dante output ,USB digital output, and specialized management software compatible with PC, smartphones, or tablets. It supports functions such as public address system input, alarm input, central control interface, microphone locking on charging base, feedback suppression, etc. Additionally, it comes with a page-turning laser pointer, smart charging base, and more, making it suitable for a wide range of applications including education, lectures, conferences, etc.

Key Features

Multiple audio outputs

• Adopt 6.3mm unbalanced output, XLR balanced output, Dante network audio output and USB digital audio output, it is convenient to connect various audio processing equipment.

Infrared pairing window extension design

• The IR pairing function can be extended with the infrared extension synchronizer EC-58. When the receiver is installed in the cabinet, this synchronizer can be used to extend the IR window to a position convenient for synchronization.

Practical function

• Connect to a PC or teaching tablet for audio input/output via USB. The page-turning control is also transmitted to the PC or tablet through this USB connection.
• Use the stereo AUX input of the RCA socket to connect LINE OUT audio equipment.
• Provide power to the charging base, allowing for charging of the transmitter and page-turning laser pointer. Up to 3 charging bases can be cascaded.
• Lock the transmitter and page-turning laser pointer in the charging base via remote control software.
• Remotely control the functional parameters of the receiver via the central control protocol.

Provide power to antennas

• The BNC connector of the receiver can be connected to passive antennas and active antennas, and it can provide power to the active antennas.

DSP audio processing algorithm

• Built-in high and low pass filters, parametric equalizer, feedback suppression, volume detection, audio matrix, volume control and other functions.

Alarm trigger input port

• When the alarm port receives a high-level signal, the alarm function is activated, automatically muting all output audio until the alarm state is cleared.

Public address system input

• For constant voltage power amplifier input, use the switch to select the input voltage level: 0V, 25V, 70V, 100V. The public address input also features a priority function. When an audio signal is input to the PA interface, other audio sources will be automatically muted. Once the public address audio signal ends, the mute will be canceled.

Product Specification

• EIA Standard Rack 1U metal chassis.
• Receiver equipped with equisite LED display, can clearly display receiving channel, RF and AF signal.

IMIC-6D
Dual Channel Wireless Receiver

Receiving Frequency Range:	521.25MHz — 936.85MHz
Receiving Method:	Superheterodyne
Image Rejection:	45dBm
RF Sensitivity:	When inputting 10dBu, S/N≥45dB
Squelch Adjustment:	Built-in setting parameters
Frequency Synchronization method:	Manual button setting
Digital Audio Output:	Supports Type-C, USB audio, Rj45, DANTE audio
Power Supply Mode:	DC12V 1A
Dimensions (mm):	410 (W)×206 (D)×43 (H)
Net Weight:	1.9KG

T6
Wireless Transmitter

• An extremely compact wireless transmitter with a unique magnetic soft clip on the back, which can be clipped on your collar or attached to metal objects. Built-in 450mA lithium battery, bright OLED clearly displays the working status of the device, suitable for teaching, lectures, meetings, demonstrations and other occasions.

Carrier Frequency Range:	521.25MHz — 936.85MHz
Oscillation Mode:	PLL frequency synthesis
Transmit Power:	13.5dBm
Carrier Error:	0.005%
Harmonic Radiation:	-32dBm
Modulation Method:	FM
Max. Deviation:	±65KHz
Max. input level:	150mV
Frequency Setting:	Auto/Infrared
Power Supply Mode:	Built-in 3.7V 435mA lithium battery power supply
Normal Working Current:	100mA
Max. charging current:	300mA
Battery Life:	≥4 hours
Dimensions (mm):	32 (W)×13.5 (D)×67 (H)
Net Weight (g):	31.5

EC-6
Single Bay Charger

• Single Bay Charger suitable for the IMIC-6 series supports one-click locking function, which can prevent device loss after being turned on and easy to manage. It has two TYPE-C communication ports and a wiring terminal for external control signals, which can upload the equipment status to the central control system for centralized management.
• DC-5V provides a maximum charging current of 1A.
• Dimensions (mm): 86 (W)×86 (D)×60.2 (H)

WL-6
Page-turning laser pointer (green light)

• The laser pointer is suitable for the IMIC-6 series. It has an exquisite and lightweight appearance. It supports wireless control of page turning and laser pointing functions. It can be used in teaching, lectures, demonstrations, meetings and other occasions.

Power Supply:	Built-in lithium battery
Charging:	Dedicated charging stand or USB-C plug DC-5V-1A
Power Consumption:	Laser startup 0.66W (5V/132mA)
Standby:	500nA
Wireless control page turning distance:	10 meters
Dimensions (mm):	31 (W)×15.5 (D)×112.7 (H)

EC-6W
Single Bay Charger (Built-in page turning function receiver)

• Single Bay Charger suitable for the IMIC-6 series supports one-click locking function, which can prevent device loss after being turned on and easy to manage. It has two TYPE-C communication ports and a wiring terminal for external control signals, which can upload the equipment status to the central control system for centralized management.
• DC-5V provides a maximum charging current of 1A.
• Dimensions (mm): 86 (W)×86 (D)×60.2 (H)

EC-58
External Sychronizer

• The infrared extension synchronizer can provide a larger and better receiving effect in the required coverage area, and expand the working range and stability of the wireless system. As long as the receiver and the transmitter are aligned within a range of about 30CM can achieve the synchronization. After the synchronization is completed, the infrared extension synchronizer will make a "dee" sound.
• The EC-58 can be installed on the indoor wall.

Working Mode:	MCU control
Infrared Frequency:	32KHz
Power Supply:	DC 12V
Normal Working Current:	50mA
Size(mm):	85×85×35
Weight:	65g