

INFRARED WIRELESS MICROPHONE COMMUNICATION SYSTEM



**Infrared Wireless Microphone System
IR-500**

Communication and Meeting System of Infrared Wireless Microphone System Education--Museum--Gallery--Exhibition Room--Show Room--Fitness Center

2010 World Expo



Infrared Wireless Microphone System IR-500

Descriptions:

The infrared wireless microphone system is ideal for confidential board meeting and anti interference education communication use. Thanks to the infrared transmission technology, sensitive information being discussed in a board room won't leave the room. Secondly, the infrared wireless microphone can be used in several adjacent classrooms simultaneously without interference. In this way, the infrared wireless microphone system can meet the needs in educational and business environments perfectly.

The infrared wireless microphone system has been preferred as ideal IR wireless classroom sound system in school. Once the microphone is set for the one fixed channel, the microphone will automatically diagnose and matching its frequency with the transmitter, so there is no need for the teacher to change the microphone setting when moving to a different classroom. When several microphones were used in one school, there will be no interference among each other because the IR transmission is only effective in its own room. So the IR classroom sound system ensures that the teacher's voice reaches all the students in the classroom and helps the students to better understand the lesson. Consequently, a stress-free classroom and learning environment for both teacher and students is created by a simple system.

The infrared wireless microphone system is also an perfect solution for museum, gallery, exhibition room, showroom, fitness center where multiple microphone systems used at the same time for multiple rooms without interference.

Applications: Museum, Showroom, Gallery, Classroom & Fitness Center.



IR-500MC Infrared Wireless Transmitter (Single Channel)



- Design with a built-in single channel IR frequency transmitter.
- Main controller for the IR wireless microphone system.
- Enable installation of up to 2 infrared light receiver per unit.
- 19" universal rack mount or tabletop design.
- With 19" removable mounting ears.
- With master volume control on front panel.
- With power and RF working status indicator on front panel.
- With two IR inputs for radiators.
- With one XLR line output.
- With one phone jack line output.

IR-500HM Infrared Wireless Microphone (Hand-held)

- Built-in infrared wireless receiver within the microphone
- Built-in rechargeable battery.
- Directly to be power charged by IR-500BC.
- Continuous working time of 16 hours and standby of 48 hours.
- Low battery indicator.
- RF working status indicator.



IR-500PM Infrared Wireless Microphone (Pendant)

- Built-in infrared wireless receiver within the microphone
- Built-in rechargeable battery.
- Directly to be power charged by IR-500BC.
- Continuous working time of 16 hours and standby of 48 hours.
- Low battery indicator.
- RF working status indicator.
- Supply with neck-suspended tool.



IR-500RD Infrared Wireless Radiator

- Supplied ceiling mounting brackets facilitate installation.
- Receive the Infrared signal from IR-500MC and radiate to wide coverage for microphone receiver.
- Directly powered by the transmitter.
- Its coverage radius angle of approx 90 degrees.
- Optional with splitter to install more radiators.



IR-500BC Battery Charger

- Capable of charging up to 2 microphones at a time.
- Charging time of 3 hours.
- Charging status indicator of charging and full power.
- DC power supply.



Infrared Wireless Microphone System

IR-500

Model	IR-500MC
Description	Infrared Wireless Transmitter
Carrier Frequency	2.85MHz
Offset	±40Hz
Frequency Response	40Hz-15KHz
S/N Ratio	>100dB
THD	<0.2%
Line Input	450mV
Line Output	240mV
Infrared Output	RCA outputs to radiator
Power Supply	AC power adapter 100V to 240V, 50-60Hz
Operation Temp	-10°C to 50°C
Humidity	30%-85%
Dimension	275(W) × 172(D) × 41(H)mm
Weight	2.2kg

Model	IR-500HM
Description	Infrared Wireless Microphone
Carrier Frequency	2.35MHz
Transmission Distance	30 meters
Power Supply	Two AA rechargeable battery, 1.8KAh
Working Time	16 hours and 48 hours standby
Operation Temp	0°C to 50°C
Humidity	30%-85%
Dimension	52(D) × 175(H)mm
Weight	285g

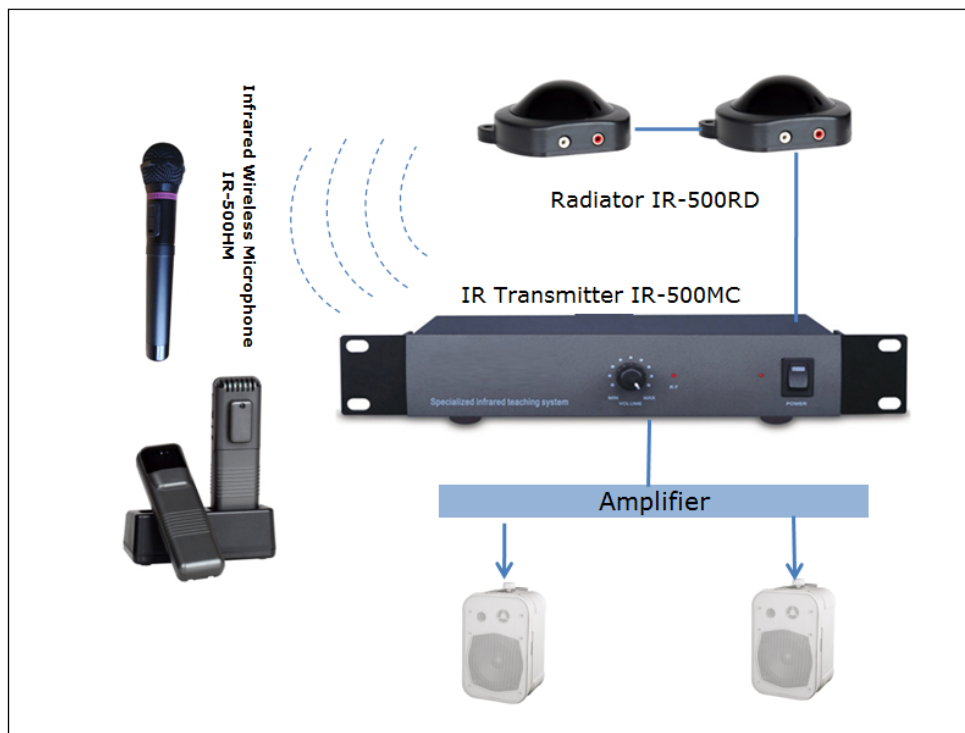
Model	IR-500PM
Description	Infrared Wireless Microphone
Carrier Frequency	2.35MHz
Transmission Distance	30 meters
Power Supply	Two AA rechargeable battery, 1.8KAh
Working Time	16 hours and 48 hours standby
Operation Temp	0°C to 50°C
Humidity	30%-85%
Dimension	118(W) × 35(D) × 31(H)mm
Weight	90g

Infrared Wireless Microphone System IR-500

Model	IR-500RD
Description	Infrared Wireless Radiator
Power Supply	DC24V directly from the transmitter
Carrier Frequency	2.85MHz
Current Consumption	60mA
Connector	75ohms, BNC jack
Operation Temp	0°C to 40°C
Humidity	30%-85%
Dimension	120(D)×70 (H)mm
Weight	168g

Model	IR-500BC
Description	Battery Charger
Charging Way	Pulse Fast Modulation
Charging Qty	Simultaneously two microphones
Power Supply	AC power adapter 100V to 240V, 50-60Hz
Power Consumption	DC4.7V, 300mA
Operation Temp	0°C to 40°C
Humidity	30%-85%
Charging Time	12 hours
Dimension	180(W)×90(D)×87(H)mm
Weight	100g

System Connection Diagram:



Infrared Wireless Microphone System

IR-500

Secure Wireless Communication - Infrared Wireless Microphone System

Infrared microphone is widely used as a convenient wireless communication tool, because of its preventive features against eavesdrop and radio interference.

This content describes "Infrared Wireless Microphone System" in easy-to-understand way.

What's infrared?

Infrared is the light invisible to the eye and harmless to the body.

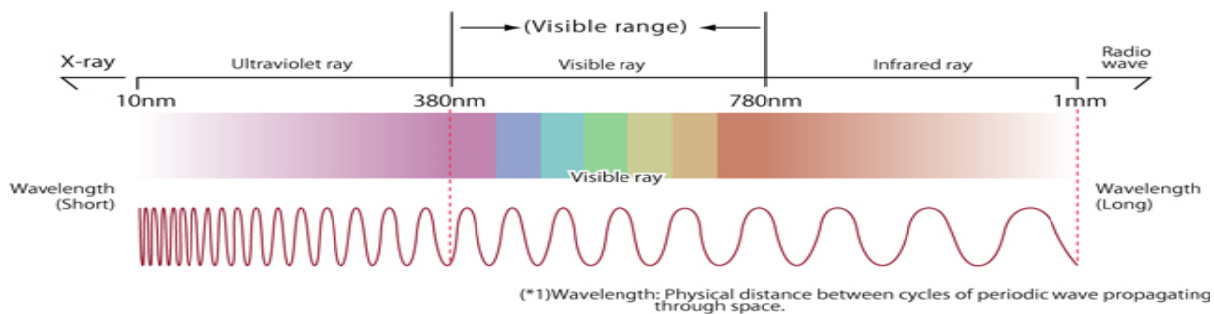
There are invisible light rays, besides seven visible light spectrum, such as violet, indigo, blue, green, yellow, orange and red.

Infrared light is one of invisible lights having wavelengths longer than that of red ray, and therefore called "infra-red"ray.

The light with shorter wavelength than that of visible violet is called ultraviolet ray.

While ultraviolet light has ill effect to human body, e.g. sunburn, infrared light does not.

■ Spectrum of Light



What are advantages of infrared wireless microphone?

Light does not penetrate walls (*2), therefore the infrared microphone has three features as below.

1 Privacy function against eavesdrop

Unlike radio waves, infrared ray does not penetrate walls.

Information transmitted through infrared ray will be highly protected against outdoor listening by the third party using a device operating on radio wave.

2 No interference among adjoining rooms operating on the same channel

Even if the same communication channel is used in adjoining rooms, no interference occurs.

Channel change is not required.

3 Stable communication

Secure communication is assured in urban area without being disturbed by jamming of radio wave communication.

(*2) Penetrates the transparent walls, such as glass walls and windows.

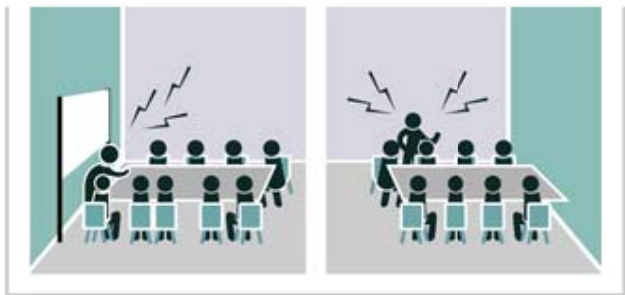
Infrared Wireless Microphone System IR-500

What's suitable location for infrared wireless microphone systems?

Highly recommendable for conference and board rooms located close to each other.

■ Conference and Board rooms - "Prevention of information leaking"

Excellent information security to assure sense of safety.



■ Schoolrooms - "No interference"

Stable operations in adjoining schoolrooms without worry about interference.

