Panasonic
ideas for life

Ideal for classrooms, lecture rooms, and conference rooms!

Infrared Wireless Microphone System

The Infrared Wireless Microphone System for More Flexible Microphone Use and Superior Privacy, Plus High Quality Sound

What is an infrared wireless microphone system ?

It is a wireless system utilizing infrared rays in the light range. Infrared rays are blocked by light-blocking materials such as walls. This characteristic leads three big advantages.

① Interference-free operation

In rooms surrounded by walls, outside infrared signals are blocked, for an interference-free operation environment is obtained. The system can be used in adjacent rooms simultaneously.

* Interference caused by intense electrical fields created by illegal radio waves and other sources, or by using the same channels in the same room, are unavoidable.
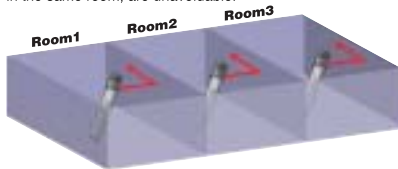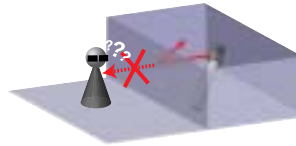
Simultaneous use in adjacent rooms

② High privacy

Infrared signals remain inside rooms surrounded by walls, thus preventing interception.

* Signals may pass through glass windows or other light transmitting materials.

Infrared prevents interception

③ A single microphone can be used in multiple rooms

Because an interference-free environment is obtained in rooms surrounded by walls, a single channel can be shared among the rooms. A single microphone can be used in any room without adjusting the channel.
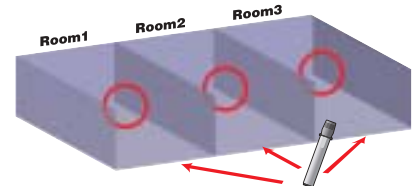
Same microphone can be used in multiple rooms

Exclusive Panasonic features

Innovative hands-free pendant-style microphone: WX-LT310

Easy to wear
The innovative device is worn around the neck.
It can be easily worn over clothes without pockets.

The cordless design prevents wire damages
The microphone, emitter and main unit are integrated into one unit. The cloggy cord of the conventional clip-type microphone is gone, eliminating the risk of being caught or wire damages.

The volume is controlled on the microphone
The WX-LT310 is equipped with volume control buttons. The volume of the microphones worn by the user or other person can be controlled*. The volume control of the line input on the receiver is also available (Future Use).

* Controls two channels on the same receiver by switching MIC SELECT (OWN/OTHER).

Use strap to hang microphone around neck.

Adjust distance between microphone and mouth.

MIC SELECT (OWN/OTHER)

Volume control buttons for microphones

Volume control buttons for line input (Future Use)

External input terminal

Lightweight, easy-to-use handheld microphone: WX-LT100

The emitter designed to prevent problems
The infrared emitter is located right under the microphone. Relocating the emitter from the grip prevents sound interruption from a hand inadvertently blocking the emitter.

Emitter

The lightweight design eliminates fatigue from extended use
The microphone weighs approx.190 g including two rechargeable batteries. It weighs approx.170 g with alkaline batteries. The design eliminates fatigue from extended use.
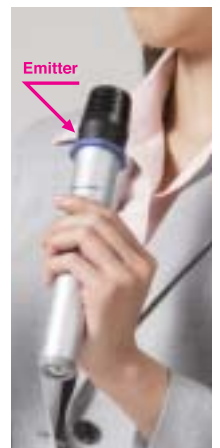
● The four channels are supported by a single microphone

● The microphone has a external input terminal for portable PC or CD, etc.
  * The microphone is turned OFF while the external input is used.

● Commercially available rechargeable batteries can be used

● The energy-saving scheme allows up to approx. six continuous service hours
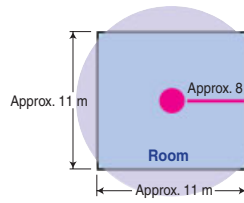
Easy to Install

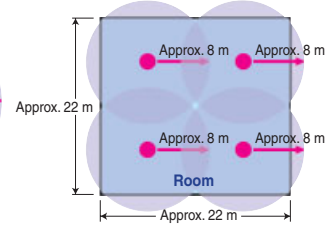## The dome infrared sensor covers 360 horizontal degrees

A single Infrared Sensor WX-LS100 covers a wide area with 360 horizontal degrees. An area of a standard size can be covered by a single sensor. Using a Infrared Sensor Coupler WX-LC10, up to four sensors can be used to support the entire area.

* The actual reception range of a dome infrared sensor is approx. 8 m in radius. It may vary depending on environmental conditions in the room.
* The microphone range is approx. 20 m (Line-of-sight distance along the optical axis).
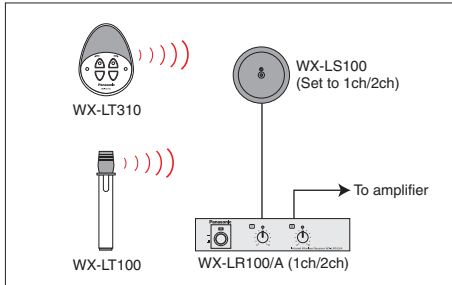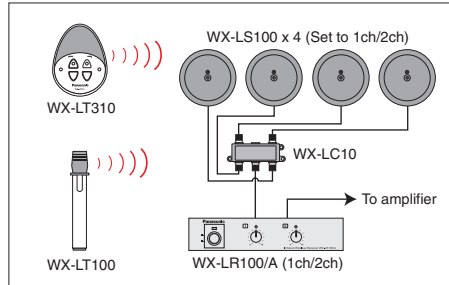
Number of infrared sensors: 1

Approx. 8 m
Approx. 11 m
Approx. 11 m
Room

Number of infrared sensors: 4

Approx. 8 m Approx. 8 m
Approx. 8 m Approx. 8 m
Approx. 22 m
Approx. 22 m
Room

* The above figures are in Hi mode.

■ System Examples

① Dual channel reception / standard area

WX-LT310
WX-LS100 (Set to 1ch/2ch)
WX-LT100
WX-LR100/A (1ch/2ch)
→ To amplifier

② Dual channel reception / wide area

WX-LT310
WX-LS100 x 4 (Set to 1ch/2ch)
WX-LC10
WX-LT100
WX-LR100/A (1ch/2ch)
→ To amplifier

③ Four-channel reception / standard area

WX-LT310
WX-LS100 (Set to 1ch/2ch)
WX-LS100 (Set to 3ch/4ch)
To auxiliary input
→ To amplifier
WX-LT100 x 3
WX-LR100/A (1ch/2ch)
WX-LR100/B (3ch/4ch)
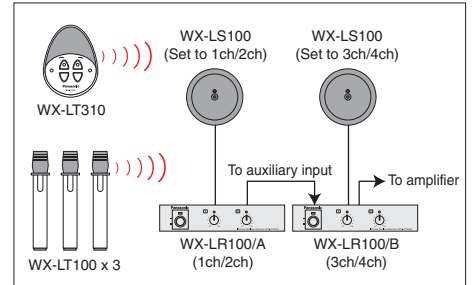
■ Infrared Wireless Microphone: WX-LT100, WX-LT310

Infrared Ray Wavelength		850 nm
Number of Transmission Channel		4 channels (Sub carrier frequencies) (1ch: 2.3 MHz, 2ch: 2.8 MHz, 3ch: 3.2 MHz, 4ch: 3.8 MHz)
Oscillation System		PLL Frequency Synthesizer Method
Operating Range		approx. 20 m
	Condition	At the line of sight with using WX-LR100 & WX-LS100
Microphone Type		Unidirectional ECM
Frequency Response		100 Hz ~ 10 KHz (1 KHz standard 50 μs emphasis)
External Input Level		0 dBV ~ –30 dBV
External Input Jack		Ø3.5 miniature Jack
Required Battery		AA type x 2, alkaline dry element battery or Nickel-hydrogen rechargeable battery (Panasonic HHR-3MPS or HHR-3XPS)
Battery Capacity Alarm Indication (at Power LED with ON)		
	Green	Normal
	Red	Required to change or charge batteries
Operation Time (at 25 °C, continuous use)		
Alkaline Battery (Panasonic LR6 (XJ))		approx. 5 hours
Nickel-hydrogen Rechargeable Battery (Panasonic HHR-3MPS or HHR-3XPS)		approx. 6 hours
Dimensions	WX-LT100	Max. Ø44.6 mm x 236 mm (Length)
	WX-LT310	Max. 77 mm (W) 28 mm (H) x 236 mm (D)
Weight	WX-LT100	approx. 170 g (Including batteries)
	WX-LT310	approx. 135 g (Including batteries & Neck strap)
Finish	WX-LT100	Black color / Infrared ray transmission acrylic resin (Microphone head) Silver metallic color (Microphone body)
	WX-LT310	Silver metallic color (Microphone body), Blue metallic color (Microphone periphery)

■ Infrared Receiver: WX-LR100/A, WX-LR100/B

Power		24 V DC (Using the attached AC adapter unit)
Current Consumption		250 mA
Infrared Sensor Input		75 Ω F type Connector (for WX-LS100) Output power for WX-LS100: 22 V DC, 100 mA Max.)
Number of Receiving Channel		2 channels (Sub carrier frequencies)
	WX-LR100/A	1ch: 2.3 MHz, 2ch: 2.8 MHz
	WX-LR100/B	3ch: 3.2 MHz, 4ch: 3.8 MHz
Receiving System		TRF (Tuned Radio Frequency)
Frequency Response		100 Hz ~ 10 KHz
Dimensions		210 mm (W) x 44 mm (H) x 210 mm(D)
Weight		approx. 1.1 kg
Finish		Black color

■ Infrared Sensor: WX-LS100

Power	22 V DC (Power source : WX-LR100/A or B)
Current Consumption	20 mA
Infrared Ray Wavelength	850 nm
Sensor Output	75 Ω F Type Connector
Receiving Channel (Sub Carrier Frequencies)	Ch1: 2.3 MHz, Ch2: 2.8 MHz, Ch3: 3.2 MHz, Ch4: 3.8 MHz
Dimensions	Max. Ø113.5 mm x 34.5 mm (H), Not including F connector projection
Weight	approx. 0.2 kg
Finish	Black color / Infrared ray transmission acrylic resin

■ Battery Charger: WX-LZ110

Type of Battery	Nickel- hydrogen rechargeable battery (Panasonic HHR-3MPS or HHR-3XPS)
Charging Time	approx. 7 hours

Infrared Wireless Microphone (Hand Held Type)
WX-LT100
Light weight, simple and basic design.

Infrared Wireless Microphone (Pendant Type)
WX-LT310
Hands-free pendant-style. Equipped with volume control buttons.
* Shipped with strap attached.

Infrared Receiver
WX-LR100/A (1ch, 2ch)
WX-LR100/B (3ch, 4ch)
Built-in 2ch tuner. Two receivers connection allows simultaneous four microphone use.
* The photo is WX-LR100/A.

Charger Stand
WX-LZ10
Can charge batteries in approx. seven hours. Two microphones can be charged at the same time.
* Comes with two WX-LT100 adapters. Photo shows adapter attached on left side. (Microphone sold separately)

Battery Charger
WX-LZ110
Direct connection. Allows simultaneous charging of two microphones. Can also serve as power cord for the charger stand.

Infrared Sensor
WX-LS100
A single sensor covers 360 horizontal degrees.
Image shows sensor attached to ceiling
* Attachment included.

Infrared Sensor Coupler
WX-LC10
Allows addition of up to four Infrared Sensors.

Important
– Safety Precaution: carefully read the operating instructions and installation manual before using this product.
• All TV pictures/menu are simulated. • Weights and dimensions are approximate. • Specifications are subject to change without notice. • These products may be subject to export control regulations.

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