

Infrared Wireless Microphone System

Capture the Sound of Student Achievement Enhance Instruction and Get Results with Panasonic's

Infrared Wireless Microphone System



















Improve student achievement and experience fewer distractions with enhanced sound in the classroom

"I can hear my teacher from anywhere in the room."

Decidel With enhanced sound Without enh

and understand clearly when the

teacher is using a microphone.

Increase student participation, improve peer to peer learning, and build confidence in soft-spoken students by using the infrared handheld microphone.

Research has shown that the addition of a sound enhancement system in the classroom provides better classroom management and fewer discipline issues

"I don't have to repeat instructions."

classroom hears what is stated



Instruction within reach

With the pendant microphone, teachers can be heard and control audio from anywhere in the classroom.

Both hands remain free for writing and sharing lesson details.

Panasonic infrared wireless microphones offer a new level of performance

The pendant microphone provides convenient hands-free functionality

The pendant microphone integrates the infrared emitters, microphone and processor into an all-in-one, easy to use unit, for cable free operation.

Easy to wear, easy to use

In contrast to conventional lapel microphones, the WX-LT350 has a built in microphone thus eliminating the need for a hard wired microphone. The WX-LT350 is suspended around the neck with a lanyard, allowing for a comfortable, almost un-noticeable wireless transmitter.

The handheld microphone is lightweight and easy to use

The innovative design of the handheld microphone provides for trouble free operation by placing the emitting diodes just below the microphone, preventing them from being blocked by the users hand.

Light, comfortable design prevents speaker fatigue

The sleek design of the handheld microphone, weighing only 105 grams (0.23 lbs.), utilizes a single 'AA' NiMH rechargeable battery, and is easy to use for presenters, audience members, and the small hands of students.



Adjust volume from the microphone itself

The WX-LT350 is equipped with remote volume control of the teacher/pendant microphone and the student/handheld microphone which prevents the teacher from having to adjust volumes at the amplifier thus not having to stop instruction. Multimedia levels can be controlled with a compatible receiver.



Broadcast sound from PCs or other audio sources

When the microphone is connected to a PC or other audio source, the sound can be broadcast via the infrared wireless system.



The dome infrared sensor covers 360 horizontal degrees

A single WX-LS100 Infrared Sensor provides 360 horizontal degrees of coverage, more than sufficient for standard classroom areas.

Using the Infrared Sensor Coupler WX-LC10, up to four sensors can be used to support expanded educational spaces.

360 degrees

A breakthrough in sound. Choose from the following components.

Infrared Wireless Microphone (Pendant Type) **WX-LT350**

Hands-free pendant-style microphone. Equipped with remote volume controls Ideal for teacher or presenter use.



Infrared Wireless Microphone (Handheld Type) **WX-LT150**

Lightweight, simple design. Ideal for student. teacher or audience use

Battery Charger **WX-LZ150**

Direct connection. Allows simultaneous charging of 2 microphones.



Infrared Sensor **WX-LS100** A single sensor covers

360 horizontal degrees.



* Attachment included

Infrared Sensor Coupler WX-LC10

Allows addition of up to 4 Infrared Sensors.



Bass-Reflex Ceiling Type Speaker WS-EC10

- This classroom optimized speaker is designed to be installed in a ceiling and assures speech intelligibility of sound.
- 12 cm (4-3/4") cone speaker



Infrared Receiver/Amplifier

WX-LA50

2ch tuner built-in type 50 W amplifier. 4 line input and 8 speaker connections. Connection with WX-LR100 allows simultaneous 4 microphone use.



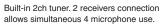
Infrared Receiver/Amplifier WX-LA20

2ch tuner built-in type 20 W amplifier. 2 line input and 4 speaker connections. Connection with WX-LR100 allows simultaneous 4 microphone use.



Infrared Receiver WX-LR100/A (1ch, 2ch)

WX-LR100/B (3ch, 4ch)





* Shown: WX-LR100/A

All-in-one portable sound system

The portable infrared sound system incorporates the 2-channel receiver, sensor, amplifier and speaker into one compact unit.

It provides high quality voice and multimedia capability for a variety of teaching and learning environments.



■ SPECIFICATIONS

Infrared Wireless Microphone: WX-LT350, WX-LT150

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		
Reception Range		approx. 8 m from Dome Sensor		
Microphone Type		Unidirectional ECM		
Frequency Response		100 Hz ~ 10 kHz		
Required Battery		AA type x1, alkaline dry element battery or		
		Nickel metal hydride rechargeable battery		
Battery Capacity Alarm Indication Green		Normal		
(at Power LED with ON)	Red	Battery Warning (Required to change or charge battery)		
Operation Time	Alkaline Battery	approx. 5 hours		
(at 25 °C, continuous use)	Rechargeable Battery	approx. 6 hours		
Dimensions	WX-LT350	50 mm (W) x 85 mm (H) x 25 mm (D)		
		(1-15/16"(W) x 3-3/8"(H) x 1"(D))		
	WX-LT150	41 mm (W) x 207 mm (H) x 37 mm (D)		
		(1-5/8"(W) x 8-1/8"(H) x 1-7/16"(D))		
Weight	WX-LT350	approx. 55 g (0.12 lbs.) (excluding Battery)		
	WX-LT150	approx. 105 g (0.23 lbs.) (excluding Battery)		

Bass-Reflex Ceiling Type Speaker: WS-EC10

Type Full-range bass reflex Input Impedance 8 Ω Power Capacity 60 W (RMS), 120 W (music program input) Sound Pressure Level 87 dB (1 W, 1 m (3.3 ft)) Frequency Response 90 Hz ~ 20,000 Hz (~10 dB, Typical) Input Terminal Push terminal Applicable wire is AWG16 ~ AWG22 (1.4 mm² ~ 0.35 mm²) Ceiling Hole Diameter \emptyset 225 mm ± 5 mm (\emptyset 8-7/8" ± 0.2")		
Power Capacity		
Sound Pressure Level 87 dB (1 W, 1 m (3.5 ft))		
Frequency Response 90 Hz ~ 20,000 Hz (-10 dB, Typical) Input Terminal Push terminal Applicable wire is AWG16 ~ AWG22 (1.4 mm² ~ 0.35 mm²)		
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	Push terminal	
Ceiling Hole Diameter ø225 mm ± 5 mm (ø8-7/8" ± 0.2")		
peaker 12 cm (4-3/4") cone speaker		
perating Temperature -10 °C ~ +50 °C (14 °F ~ 122 °F)		
Dimensions Ø256 mm x 146.5 mm (D) (Ø10-1/16" x 5-25/32"(D))		
Speaker Panel		
Weight 1.8 kg (4 lbs.) (including the speaker panel)		
Finish Speaker: Plastic-molded, black (approx. Munsell N2)		
Speaker panel: Plastic-molded, sail white (approx. Munsell N9	1	

Battery Charger: WX-LZ150

	Type of Battery	Nickel- hydrogen rechargeable battery
1	Charging Time	approx. 7 hours
	Dimensions	75 mm (W) x 26.5 mm (H) x 47.5 mm (D) (2-15/16"(W) x 1-1/16"(H) x 1-7/8"(D))
		(excluding power cable)
1	Weight	approx. 135 g (0.3 lbs.)

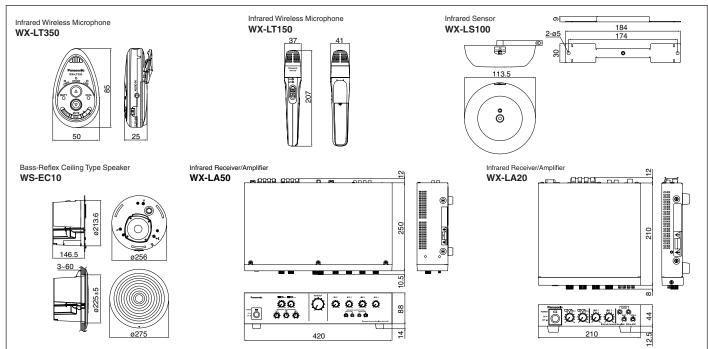
Infrared Receiver/Amplifier: WX-LA50, WX-LA20 Infrared Receiver: WX-LR100/A (1ch, 2ch), WX-LR100/B (3ch, 4ch)

Model No.		WX-LA50	WX-LA20	WX-LR100/A	WX-LR100/B	
Audio Power		50 W / 8 Ω	20 W / 8 Ω	_		
Stereo		2-Channel Stereo Sound	_	_		
Frequency M	crophone	100 Hz ~ 10 kHz				
Response Li	ne	50 Hz ~ 15 kHz		_		
Power Source	9	24 V DC (Using the attached AC adaptor unit)				
Current Cons	umption	1.2 A	750 mA	250 mA	250 mA	
Sensor Input		75 Ω F-type connector (adjusted infrared sensor: WX-LS100)				
		Power output for WX-LS100 (22 V DC 100 mA (Max.))				
Receiving Sy	stem	T.R.F. (Tuned Radio Frequency)				
Receiving	Mic 1	2.3 MHz		2.3 MHz	3.2 MHz	
Frequencies	Mic 2	2.8 MHz		2.8 MHz	3.8 MHz	
S/N		More than 60 dB		•		
Local Control	s	2 Mic Volume Controls	2 Mic Volume Controls	2 Mic Volume	Controls	
		3-Band Equalizer	2-Band Equalizer	1 Power Switch		
		4 Speaker Volume Controls	2 Speaker Volume Controls			
		1 Power Switch	1 Power Switch			
		4 Line Input Volume Controls	2 Line Input Volume Controls			
		Voice Mute On/Off				
Remote Control -		Mic 1 Level	Mic 1 Level	•		
From WX-LT350		Mic 2 Level	Mic 2 Level			
(Microphone)		Line Input Level				
Connections		4 Stereo Line Inputs	2 Line Inputs	Line Input		
		Dedicated Line Output	Dedicated Line Output	Mixing Output		
		8 Speaker Connections	4 Speaker Connections			
		Infrared Level Control				
		Voice Mute				
Dimensions		420 mm (W) x 88 mm (H)	210 mm (W) x 44 mm (H) x 210 mm (D)			
		x 250 mm (D)	(8-1/4"(W) x 1-23/32"(H) x 8-1/4"(D))			
		(16-3/4"(W) x 3-15/32"(H)				
		x 9-13/16"(D))				
		(Excluding rubber feet in height and projections such as knobs in depth)				
Weight		approx. 3.6 kg (7.95 lbs.)	approx. 1.25 kg (2.76 lbs.)	approx. 1.1 kg	(2.42 lbs.)	

Infrared Sensor: WX-LS100

Power	22 V DC
Current Consumption	20 mA
Infrared Ray Wavelength	850 nm
Sensor Output	75 Ω F-type connector
Receiving Channel	Ch1: 2.3 MHz, Ch2: 2.8 MHz,
(Sub Carrier Frequencies)	Ch3: 3.2 MHz, Ch4: 3.8 MHz
Dimensions	Max. ø113.5 mm x 34.5 mm (H) (ø4-7/16" x 1-3/8"(H))
	(excluding a projection for F type connector)
Weight	approx. 0.2 kg (0.44 lbs.)
Finish	Black color / Infrared ray transmission acrylic resin

■ APPEARANCE (Unit: mm)



Trademarks and registered trademarks

- ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

Safety Precaution: carefully read the operating instructions and installation manual before using this product.

- All TV pictures 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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