

Panasonic
ideas for life

**Infrared Wireless
Microphone System**



I thought I'd never use a
microphone in an ordinary classroom...

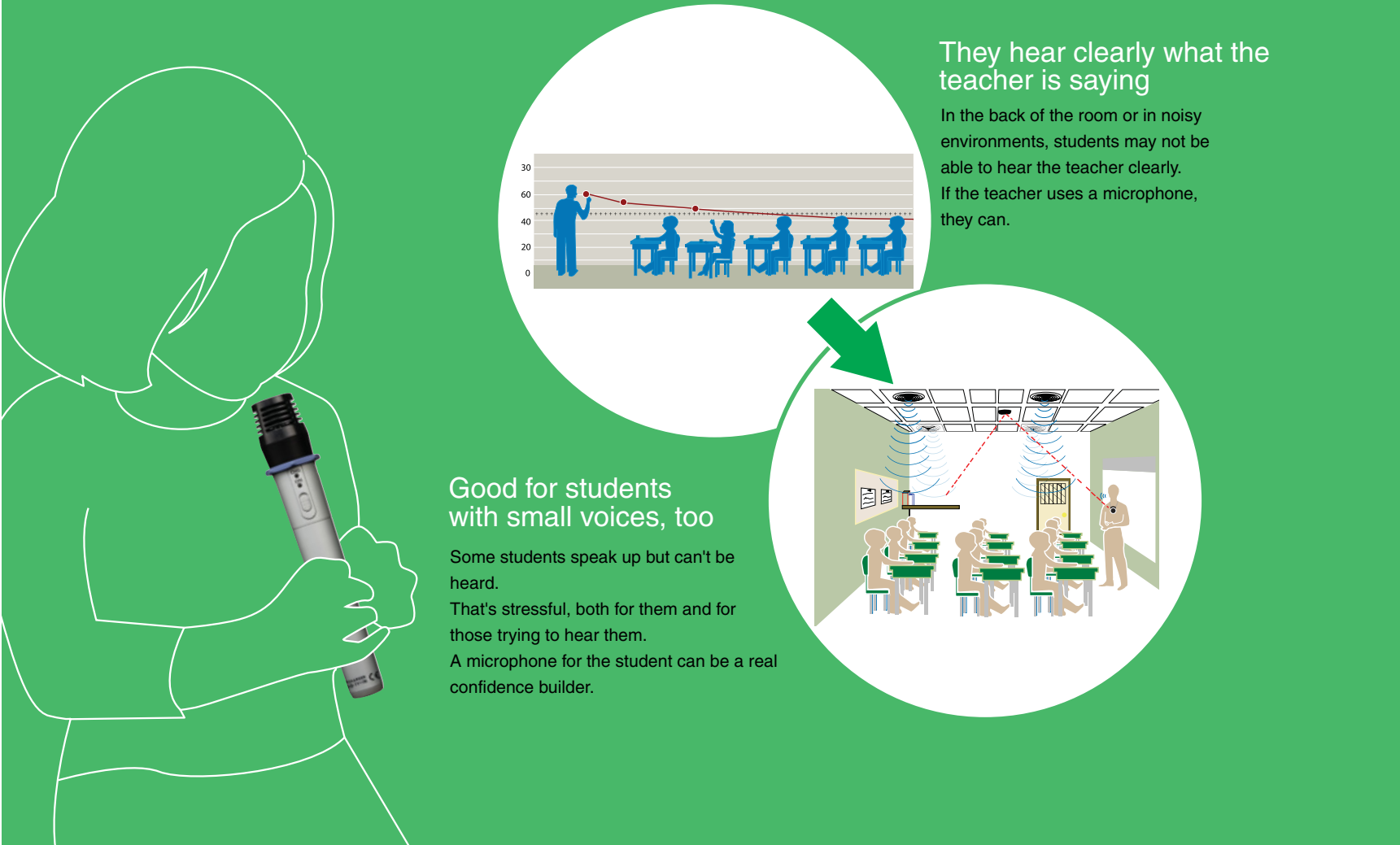
**Infrared Wireless
Microphone System**

Using a microphone in the classroom benefits both students and teacher

Students
Benefit

Everyone in the classroom can hear what the teacher says
That improves teaching efficiency

I didn't expect the teacher's voice to carry all the way to the back of the room



Good for students
with small voices, too

Some students speak up but can't be heard.
That's stressful, both for them and for those trying to hear them.
A microphone for the student can be a real confidence builder.

Panasonic infrared wireless microphones offer a whole different level of performance

Choose either of two types. Both are ideal for extended use.

For hands-free convenience, the **WX-LT310E** pendant microphone

If both hands free is what you need, this microphone is perfect. Infrared emitter, microphone and processor are combined in this all-in-one unit, for revolutionary, cable-free convenience.

So easy to wear, so easy to use

In contrast to conventional tie-pin microphones, this microphone is suspended around the neck. It can be easily worn over clothes without pockets. Distance between mouth and microphone is also easy to adjust.

Adjust volume from the microphone itself

The WX-LT310E 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).



For light weight and ease of use, the **WX-LT100E** handheld microphone

The trouble-free emitter is located below the microphone. Relocating the emitter from the grip prevents sound interruption when a hand inadvertently blocks the emitter.

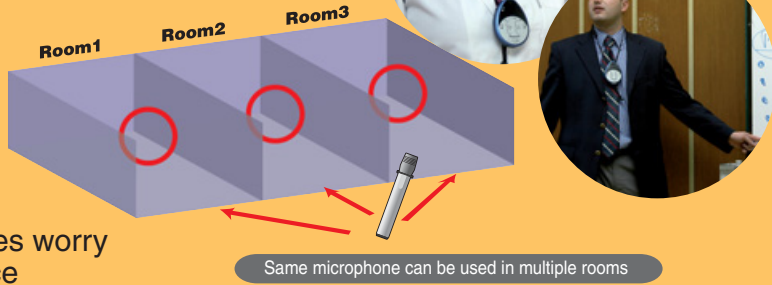
Light, comfortable design prevents speaker fatigue

The WX-LT100E weighs only 190 grams, including two rechargeable batteries. Its lightweight design allows hours of extended use with teaching or in workshops without speaker fatigue.



The teacher-specific dedicated microphone can be used in every classroom

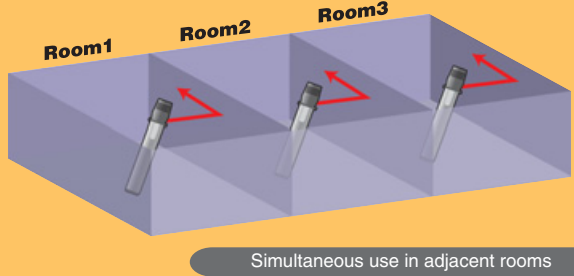
There is no need to worry about interference in rooms completely surrounded by walls. The same microphone can be used on the same channel in all rooms.



Infrared eliminates worry about interference

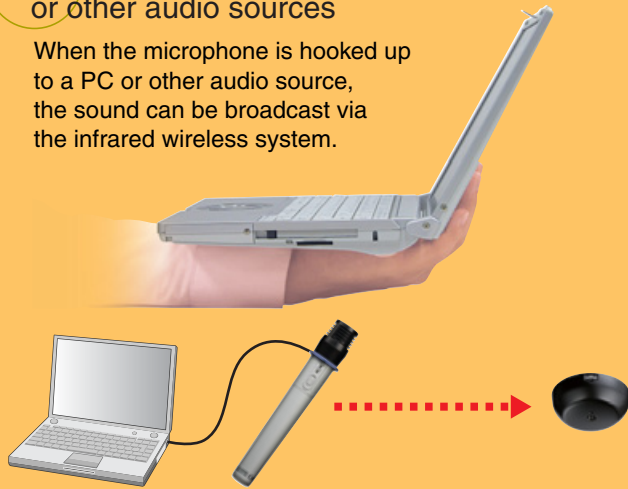
Since infrared is a form of radiation that doesn't penetrate walls, there is no need to worry about interference from external signals in any completely walled room.

* 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.

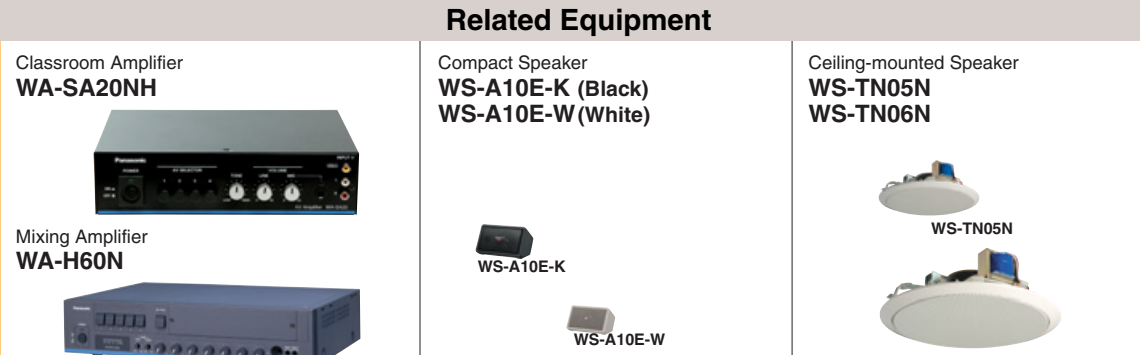
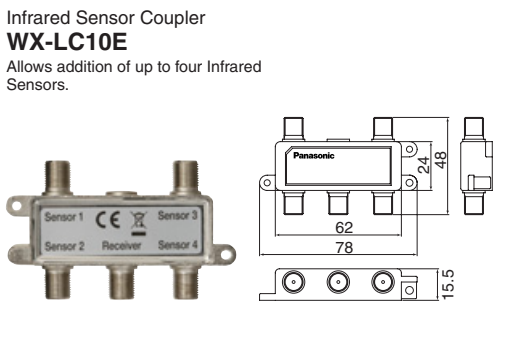
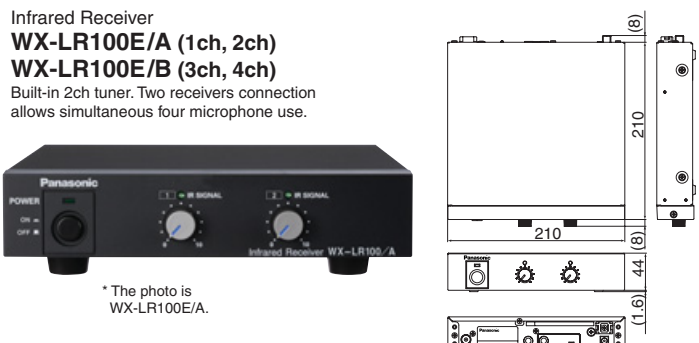


Can broadcast sound from PCs or other audio sources

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



Ideal for classrooms!

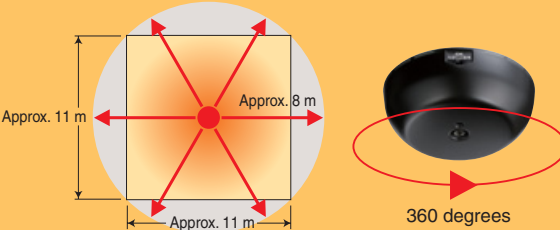


Easy to Install

The dome infrared sensor covers 360 horizontal degrees

A single Infrared Sensor WX-LS100E 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-LC10E, up to four sensors can be used to support the entire area.

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





Teachers
Benefit

A microphone creates an environment where everyone can concentrate

When this system is introduced, everyone in the classroom can hear what the teacher says

You may have had to speak loudly enough for those in the back to hear. For those in the front, that can be overbearing. A microphone solves this dilemma. Since everyone can hear what the teacher is saying, everyone can concentrate equally.



Voice fatigue is also reduced

It is no longer necessary to shout to reach everyone in the room. With a microphone, the teacher can speak in a normal tone, and everyone can hear what is said. Teaching is less tiring, for teacher and students alike.



Having both hands free is so convenient!

Choose a pendant microphone and both hands are free. With a book in one hand, you can gesture with the other. Both hands are available to show what you mean.

■ Infrared Wireless Microphone: WX-LT100E, WX-LT310E

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. 20 m
Condition	At the line of sight with using WX-LR100E & WX-LS100E
Microphone Type	Unidirectional ECM
Frequency Response	100 Hz ~ 10 KHz (1 KHz standard 50 μ s emphasis)
External Input Level	0 dBV ~ -30 dBV
External Input Jack	ϕ 3.5 miniature Jack
Required Battery	AA type x 2, alkaline dry element battery or Nickel metal hydride rechargeable battery
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	approx. 5 hours
Rechargeable Battery	approx. 6 hours
Dimensions	WX-LT100E Max. ϕ 44.6 mm x 236 mm (Length) WX-LT310E Max. 77 mm (W) 28 mm (D) x 102 mm (H)
Weight	WX-LT100E approx. 140 g (excluding batteries) WX-LT310E approx. 90 g (excluding batteries & Neck strap)
Finish	WX-LT100E Black color / Infrared ray transmission acrylic resin (Microphone head) Silver metallic color (Microphone body) WX-LT310E Silver metallic color (Control Panel), Blue metallic color (Microphone body)

■ Infrared Receiver: WX-LR100E/A, WX-LR100E/B

Power	24 V DC (Using the attached AC adaptor unit)
Current Consumption	250 mA
Infrared Sensor Input	75 Ω F type Connector (for WX-LS100E) Output power for WX-LS100E: 22 V DC, 100 mA Max.)
Number of Receiving Channel	2 channels (Sub carrier frequencies)
WX-LR100E/A	1ch: 2.3 MHz, 2ch: 2.8 MHz
WX-LR100E/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-LS100E

Power	22 V DC (Power source : WX-LR100E/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. ϕ 113.5 mm x 34.5 mm (H), Excluding a projection for F type connector
Weight	approx. 0.2 kg
Finish	Black color / Infrared ray transmission acrylic resin

■ Battery Charger: WX-LZ110/G

Type of Battery	Nickel- hydrogen rechargeable battery
Charging Time	approx. 7 hours

Panasonic Infrared Wireless Microphones Transform Teaching! These are actual comments from teachers:



Infrared Wireless Microphone System raises the attention of pre-school children to the lesson.

When using this Wireless Microphone, children are more focused on the lesson and are more willing to take part in it. Even the children who never listened to the teacher began to listen carefully and to participate in the lesson. The best thing that this microphone has given is that it led the children to understand more clearly what they are learning.

By using Infrared Wireless Microphone System, elementary school students can communicate throughout the classroom smoothly because it adjusts their tone of voice. Also, it raised their concentration and no one chats with their neighbors anymore, which enables us to use time more effectively.

Even the students sitting at the very back of the classroom can hear the teacher clearly, so this Infrared Wireless Microphone System has made them the best class.

It is a benefit for us teachers also because we are more focused on teaching than trying to control the classroom. There is no need for us to yell anymore.

At first, we had difficulty delivering our voice to the whole class when teaching because university classes are quite big. I think Infrared Wireless Microphone System has completely solved this problem. Now, I can give a lecture without having to project my voice. Also, one of the best thing about this microphone is that I can move around freely with gesture since I do not need to stay at a same place nor hold the microphone. Panasonic Infrared Wireless Microphone System has changed our style of teaching and now we are adding more of them into our university.

Important

– 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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