

Digital Wireless Microphone System
for Education & Presentation

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Important

- Safety Precaution : Carefully read the Important Information, Installation Guide and operating instructions before using this product.
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

- Masses and dimensions are approximate.
- Specifications are subject to change without notice.

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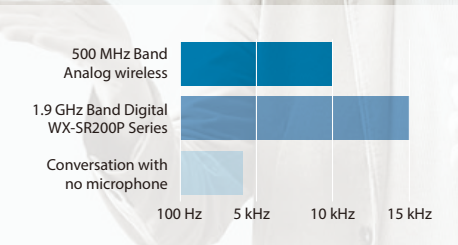
A High Quality Digital Wireless Microphone System for High Performance Lectures & Meetings

Leveraging Panasonic's 20-year experience in DECT wireless audio communications, the WX-SR200P 1.9 GHz Digital Wireless Microphone System is the best-in-class solution for classroom or corporate applications providing low latency for hybrid in-room/virtual presentations. Panasonic's digital wireless microphone system is easy to set up, easy to integrate with third-party control systems, and easy to use. The system can be expandable to suit a variety of spaces, from small classrooms, medium sized classrooms / conference rooms, to large auditoriums. Up to 8 separate antennas (per receiver) can be mounted to the wall or the ceiling in the room and connected via CAT5 back to the receiver locked away in an equipment closet. The range of each antenna can be adjusted to cover the space you want, thereby further minimizing interference.

Clear

Wide Range of Frequencies with Noise Suppression

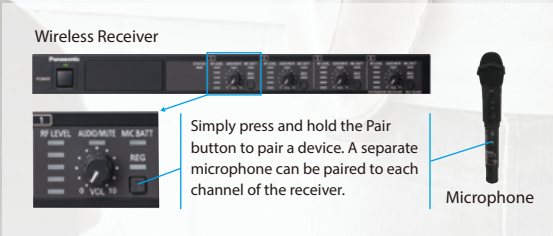
Panasonic designed the WX-SR200P 1.9 GHz Digital Wireless Microphone System to focus on presentation applications with a wider frequency range of 100 Hz -15 kHz than normal conversations -- which usually range from 100 Hz - 4 kHz -- to deliver crystal clear amplification of low and high pitch sounds. Our new noise suppression technology enables sound to be reproduced even more clearly while the built-in low-cut filter switch on our WX-ST200 and WX-ST400 microphones attenuates the lower pitched sounds to enhance clarity.



Secure

Easy Pairing of Microphones to Receiver for an Encrypted Signal

The wireless receiver and microphone can be paired simply by pushing a button on each device. Once the devices are paired, communication only takes place between the wireless receiver and microphone, eliminating noise between systems and achieving secure communication.



Easy to use

Easy Controls, Automatic Monitoring & More!

Automatic interference avoidance and diversity reception

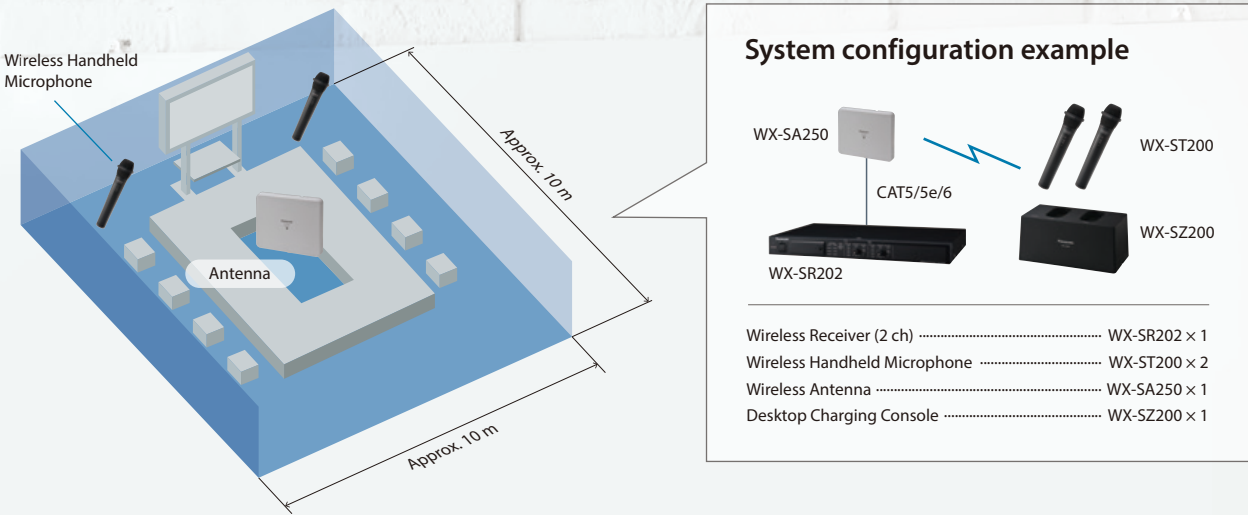
The automatic interference avoidance feature continuously monitors the channels that are used and selects secure channels where noise will not occur. Our WX-SA250 Wireless Antenna has multiple internal antennas for diversity reception. When multiple wireless antennas are installed, the handover feature automatically selects the audio from the antenna with the strongest reception.

Powered by AA batteries with contactless charging

Microphones can be powered by commercially available AA batteries*, and rechargeable batteries can be charged via the microphone. A contact-less charging method is used, eliminating the contact issues caused by dust, dirt, or misalignment of the microphone or bodypack with the contact points. *Recommended type: Panasonic BK-3MCCA AA Ni-MH batteries (Eneloop)

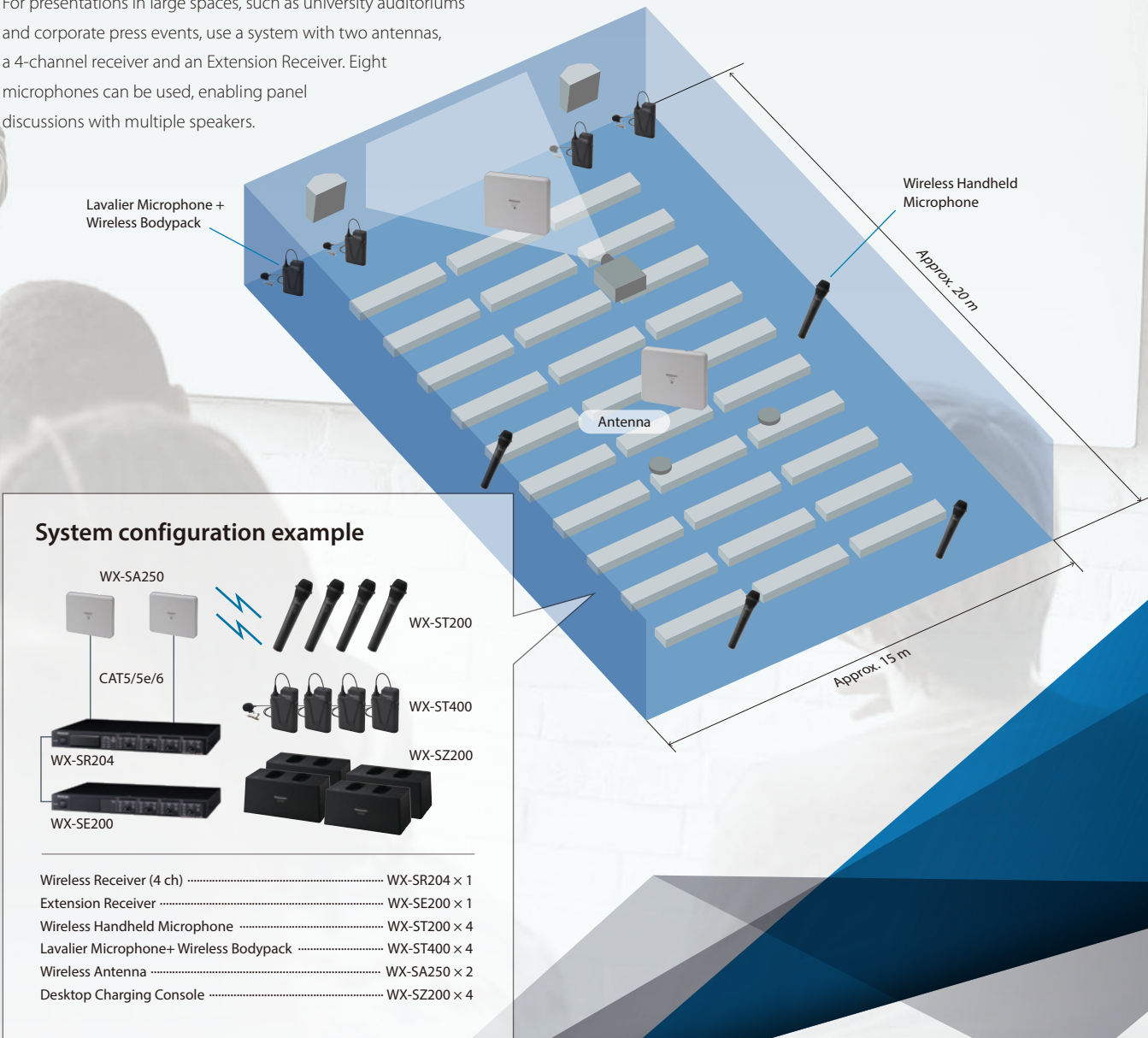
Example 1: 2-Channel Solution

For presentations in small spaces, such as a classroom, use one antenna and one 2-channel receiver. Up to two microphones can be used in this system, allowing both the speaker and any audience member to be heard.



Example 2: 8-Channel Solution

For presentations in large spaces, such as university auditoriums and corporate press events, use a system with two antennas, a 4-channel receiver and an Extension Receiver. Eight microphones can be used, enabling panel discussions with multiple speakers.



PRODUCT LINEUP



Wireless Handheld Microphone

WX-ST200

1 AA battery included

- Condenser microphonewith built-in DECT* transmitter
- Pairing button for easy setup
- External input function (input from MP3 player, PC, mobile or any device with line out)
- Operation time approx. 8 hours with AA Ni-MH battery BK-3MCC or 6 hours with AA alkaline battery LR6XJ
- Includes microphone rings in 4 colors

*Digital enhanced cordless telecommunications

Specifications

Wireless	Frequency used	1920 MHz to 1930 MHz
	Antenna	Internal antenna
Microphone used		Unidirectional electret condenser microphone
Frequency response		100 Hz to 15 kHz
Low cut filter		200 Hz, 6 dB/oct
Device interface	Connector terminal for external input	Three-contact 3.5 mm jack (Monaural mixing) (1) Stereo L (2) Stereo R (3) GND
Batteries type		Rechargeable: AA Ni-MH battery x 1 Dry cell: AA alkaline battery x 1
Battery runtime		Approx. 8 hours (AA Ni-MH battery BK-3MCCA) Approx. 6 hours (AA alkaline battery LR6PA)
Display (indicator)		Power, Charge
Operating ambient temperature		5 °C to 35 °C (41 °F to +95 °F)
Dimensions		Maximum diameter ø48 mm, Length 222 mm [ø1-57/64 inches, 8-47/64 inches]
Weight		Approx. 180 g [0.40 lbs] (including battery)
Finish		Black coating (approximate to Munsell N1)



Lavalier Microphone+ Wireless Bodypack

WX-ST400

1 AA battery included

- Wireless bodypack transmitterwith lavalier microphone (set)
- Pairing button for easy setup
- External input function (input from MP3 player, PC, mobile or any device with line out)
- Operation time approx. 8 hours with AA Ni-MH battery BK-3MCC or approx. 6 hours with AA alkaline battery LR6XJ

Specifications

Wireless	Frequency used	1920 MHz to 1930 MHz
	Antenna	Internal antenna
Microphone used		Unidirectional electret condenser microphone
Frequency response		100 Hz to 15 kHz
Device interface	Connector terminal for microphone input	Two-contact 2.5 mm jack (1) Signal (Bias DC 2.5 V) (2) GND
	Connector terminal for external input	Three-contact 3.5 mm jack (Monaural mixing) (1) Stereo L (2) Stereo R (3) GND
Batteries type		Rechargeable: AA Ni-MH battery x 1 Dry cell: AA alkaline battery x 1
Battery runtime		Approx. 8 hours (AA Ni-MH battery BK-3MCCA) Approx. 6 hours (AA alkaline battery LR6PA)
Display (indicator)		Power, Charge
Operating ambient temperature		5 °C to 35 °C (41 °F to +95 °F)
Dimensions	Main unit	60 mm (W), 97 mm (H), 20 mm (D) [2-23/64 inches (W), 3-13/16 inches (H), 25/32 inches (D)]
	Microphone part	Maximum diameter 13 mm [33/64 inches], Length 22 mm [55/64 inches], Cable length between microphone and main unit 1000 mm [3 feet 3-3/8 inches]
Weight	Main unit	Approx. 95 g [0.21 lbs] (including battery)
	Microphone part	Approx. 20 g [0.04 lbs]
Finish		Black coating (approximate to Munsell N1)

Specifications

Power source		AC 120 V 60 Hz (AC adaptor for accessories (DC12 V) used)
Power consumption		Up to 5 W
Number of charge ports		2
Charging time		Approx. 6 hours (at ambient temperature of 25 °C (77 °F), using AA Ni-MH battery BK-3MCCA)
Display (indicator)		Power, Charging error (per charge port)
Operating ambient temperature		5 °C to 35 °C (41 °F to +95 °F)
Dimensions	Main unit	200 mm (W), 90 mm (H), 106 mm (D) [7-7/8 inches (W), 3-35/64 inches (H), 4-11/64 inches (D)] (excluding protrusions)
	AC adaptor	110.5 mm (W), 32.2 mm (H), 52.5 mm (D) [4-11/32 inches (W), 1-17/64 inches (H), 2-1/16 inches (D)] (excluding DC cable and power cord)
Weight	Main unit	Approx. 450 g [0.99 lbs] (excluding AC adaptor and power cord)
	AC adaptor	Approx. 166 g [0.37 lbs] (excluding power cord)
Finish	Main unit	Black coating (approximate to Munsell N1)



New

Wireless Receiver (4 ch)

WX-SR204

Rack mount fittings included

- 4-channel wireless receiver
- Supports nearly any room size; up to 8 WX-SA250 antennas can be connected
- Pairing button for easy set up / automatic channel assignment
- External audio input, mix output, and independent channel outputs (EuroBlock)
- Ethernet connection (monitoring & 3rd party integration with Crestron, Extron, and more!)
- Rack mountable (1u high, rack ears included)

Specifications

Power		AC120 V 60 Hz
Power consumption		55 W
Frequency response		50 Hz to 15 kHz
S/N		Channel output: 70 dB or more Mix output: 64 dB or more
Wireless antenna connectors	Maximum connections	8
	Connector	RJ-45
Compatible cables		Cat 5, Cat 5e, or Cat 6 straight (non-crossover) LAN cable
Extension receiver output connector	No. of connectors	1 (output: 1)
	Connector	RJ-45
Compatible cables		Cat 5, Cat 5e, or Cat 6 straight (non-crossover) LAN cable
External input connector	Connector	Euroblock connector
	Input characteristic	-10 dBV equilibrium 600 Ω
Channel output connectors	Maximum connections	4
	Connector	Euroblock connector
Output characteristic		-10 dBV equilibrium 600 Ω
Mix output connector	Connector	Euroblock connector
	Output characteristic	-10 dBV equilibrium 600 Ω
Network connector	Connector	RJ-45
	Transmission method	100BASE-TX
Connector for [SET]	Connector	USB micro type B
	Common	Power, Antennas 1 to 8, Sync, Main, Remote
Display (indicators)	Per-channel	RF level (5 steps), Audio level/Mute, Microphone Battery, Register
Operating temperature range		0 °C to 45 °C (32 °F to 113 °F)
Operating humidity range		0 % to 90 % (no condensation)
Dimensions		Approx. 420 mm (W), 44 mm (H), 250 mm (D) [16-9/16 inches (W), 1-3/4 inches (H), 9-13/16 inches (D)] (Not considering rubber feet, knobs, and other protuberances)
Weight		Approx. 2.8 kg [6.17 lbs]
Finish		Black finish



Wireless Receiver (2 ch)

WX-SR202

Rack mount fittings included

- 2-channel wireless receiver
- Supports nearly any room size; up to 8 WX-SA250 antennas can be connected
- Pairing button for easy set up / automatic channel assignment
- External audio input, mix output, and independent channel outputs (EuroBlock)
- Ethernet connection (monitoring & 3rd party integration with Crestron, Extron, and more!)
- Rack mountable (1u high, rack ears included)

Specifications

Power source		AC120 V 60 Hz
Power consumption		39 W
Channel output	No. of circuits	2
	Connector	Euroblock
	Output characteristics	-10 dBV balanced 600 Ω
	S/N	70 dB or greater
Audio input	Frequency response	50 Hz to 15 kHz
	Distortion	3% or less
	Connector	Euroblock
	Input characteristics	-10 dBV balanced 600 Ω
Mixing output	Frequency response	50 Hz to 15 kHz
	Distortion	3% or less
	Connector	Euroblock
	Output characteristics	-10 dBV balanced 600 Ω
Antenna connection	S/N	64 dB or greater
	Frequency response	50 Hz to 15 kHz
	Distortion	3 % or less
	No. of connectors	8
Antenna connection	Connector	RJ45
	Compatible cables	CAT5 / CAT5e / CAT6 straight cable
	Wiring distance	Up to 200 m (656 feet)
Display (indicators)	Common	Power, Antenna 1 to 8, Sync, Main, Remote
	Per channel	RF level (5-level display), Audio level/mute, Microphone battery, Register
Operating ambient temperature		0 °C to 45 °C (32 °F to +113 °F)
Finish		Black coating (approximate to Munsell N1)
Dimensions		420 mm (W), 44 mm (H), 250 mm (D) [16-17/32 inches (W), 1-47/64 inches (H), 9-27/32 inches (D)] (excluding rubber feet, levers, etc.)
Weight		Approx. 2.8 kg [6.17 lbs]



Desktop Charging Console

WX-SZ200

- WX-ST200 and WX-ST400 dedicated charger
- Contactless-charger ports
- Charges total of 2 microphones / wireless bodypacks simultaneously
- Full charge in approx. 6 hours (when using AA Ni-MH battery BK-3MCC)

Operation-verified 3rd party devices

Control system

- Crestron
- Extron

Confirmed compatible as of October 2020

A dedicated touch panel for easy control of your microphones

Main functions

- Battery level display
- Volume adjustment
- Muting
- Monitoring of volume

PRODUCT LINEUP



New
Extension Receiver
WX-SE200

Rack mount fittings included

- Add up to 4 additional wireless microphone channels to an existing 4-channel system (WX-SR204 required) without the need to install additional antennas*
- Easy setup, no need for planning /allocation of channels, secure pairing with Panasonic microphones
- Supports external audio input and mixing with mic channels
- Rack mountable (1u high, rack ears included)

*Dependent on room size and desired coverage.

Specifications

Power	AC 120 V, 60 Hz
Power consumption	10 W
Frequency response	50 Hz to 15 kHz
S/N	Channel output: 70 dB or more Mixing output: 64 dB or more
External input connector	Connector: Euroblock Input characteristics: -10 dBV equilibrium 600 Ω
Channel output connector	No. of connections: 4 Connector: Euroblock Output characteristics: -10 dBV equilibrium 600 Ω
Mix output connector	Connector: Euroblock Output characteristics: -10 dBV equilibrium 600 Ω
Display (indicators)	Common: Power, status Per-channel: Reception level (5 steps), audio level/mute, microphone battery, pairing
Operating temperature range	0 °C to 45 °C (32 °F to 113 °F)
Operating humidity range	10% to 90% (no condensation)
Dimensions	Approx. 420 mm (W), 44 mm (H), 250 mm (D) [16-9/16 inches (W), 1-3/4 inches (H), 9-13/16 inches (D)] (excluding rubber feet, knobs, and other protrusions)
Weight	Approx. 2.8 kg [6.17 lb]
Finish	Black finish

ADDITIONAL ACCESSORIES

New
Lavalier Microphone
WX-SM410

Available Now: Separate Lavalier Microphones as an accessory!
Each speaker can have their own microphone – no sharing required

- Crystal clear sound, optimized for vocal presentations
- Kevlar-reinforced cable for extreme durability
- Compatible with Panasonic wireless bodypack transmitters (2.5mm TS mono connector)



Wireless Antenna
WX-SA250

- Diversity reception system
- Provides in-room line of sight connection
- Adjustable range to suit almost any room size
- On-ceiling/wall installation, with the ability to be mounted on microphone stand
- IPX4 (JIS C 0920 conformity /splash-proof type)*

*IPX4: Resistant to water splashes from any direction

Specifications

Wireless	Frequency used	1920 MHz to 1930 MHz
Antenna	Internal antenna	
Connector	RJ45	
Power source	Compatible cables	CAT5 / CAT5e / CAT6 straight cable
	Power source	Receiver WX-SR202, WX-SR204
Antenna field selection	Three-step switching (set at receiver (WX-SR202, WX-SR204)), operation support software of PC connected to receiver	
Display (indicator)	Power	
Operating ambient temperature	-10 °C to +50 °C (14 °F to +122 °F)	
Dimensions	Approx. 185 mm (W), 160 mm (H), 32 mm (D) [7-9/32 inches (W), 6-19/64 inches (H), 1-17/64 inches (D)]	
Weight	Approx. 400 g [0.88 lbs]	
Finish	Sail white (color approximate to Munsell N9.3)	
Installation	Ceiling, Wall, Microphone stand	
Waterproof performance	IPX4 equivalent	

SOFTWARE

Free

Three programs to provide more options when designing your system, configuring the settings and using your devices. Simply connect your system to a computer and you’ re ready to go.

Software for using your devices

Connect your wireless receiver (WX-SR202 or WX-SR204) to a computer with a LAN cable to check the connection and operations of your wireless receiver, wireless antenna and microphone(s) using this software.

Main functions

System display

- Shows whether your wireless receiver and antenna are connected
- Shows whether your system is synced
- Allows you to check the signal strength, volume, battery level, etc. of the microphones

System settings

- Allow you to pair microphones and check or delete pairings
- Allow you to select an antenna field (transmitted power)
- Allow you to configure network settings

Maintenance

- Basic spectrum analyzer, DECT slot monitor, walk test logs, software version upgrades, etc.

Example screen



Basic spectrum analyzer

The program monitors the signal strength in the frequency bands near those used for DECT to detect sources such as mobile phone towers that are affecting the system.

DECT slot monitor

You can monitor the congestion level of the radio waves used by DECT.

Walk tests

You can perform a walk test by walking around with the microphone and checking that the wireless antenna receives a consistent signal from all areas.

Easy wireless design tool



- This tool helps you design your system before purchasing it.
- You can enter information such as the layout of your room(s) and the number of microphones you need and simulate signal interference.

Settings software



- This tool can be used to check the signal when purchasing or installing a system.
- To use this tool, connect a wireless receiver or wireless microphone to a computer with a USB cable.
- The tool has a similar maintenance function to the software for using your devices.



For more information, visit na.panasonic.com/us/audio-video-solutions/professional-audio or email proaudio@us.panasonic.com