

**Panasonic**<sup>®</sup>

## Operating Instructions

Included Installation Instructions

**Wireless Antenna Unit** For professional use only

Model No. **WX-AU202P**



Before operating this product,  
please read this instructions carefully and save this manual for future use.



PUQX1066ZA

# Safety precautions

**WARNING:**

- To prevent fire or electric shock hazard, do not expose this apparatus to rain or moisture.
- The apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus.
- To prevent injury, this apparatus must be securely attached to the ceiling or wall in accordance with the installation instructions.
- This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.
- **MEDICAL:**  
Consult the manufacturer of any personal medical devices, such as pacemakers, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 1.92 GHz to 1.93 GHz, and the power output level is 115 mW (max.).)  
Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- The installation shall be carried out in accordance with all applicable installation rules.
- This product has no power switch. When turning off the power, turn off a Power Supply.

**WARNING:**

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC Caution:**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Supplier's Declaration of conformity

Trade Name: Panasonic

Model No.: WX-AU202P

Responsible Party:

Panasonic Corporation of North America

Two Riverfront Plaza, Newark, NJ  
07102-5490

Support Contact: 1-800-491-9986

wirelessmicsupport@us.panasonic.com



NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The model number and serial number of this product may be found on the surface of the unit.

You should note the model number and serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

# Before use

## Preface

This product is a receiver with a built-in antenna that connects to the Ceiling Array Microphone (WX-AM800P: sold separately). You can register and use wireless microphones (WX-ST200P, WX-ST400P, WX-ST600P, WX-ST700P: sold separately, hereinafter referred to as “microphones”).

- It allows two microphones to be used at the same time.
- Microphone audio is output via a Ceiling Array Microphone.
- It uses the 1.9 GHz band DECT\* standard to achieve stable communication with minimal radio frequency interference over a wide area.
  - \* DECT (Digital Enhanced Cordless Telecommunications): A standard for digital cordless telephone communications
- It achieves stable wireless communication through a diversity reception system equivalent to the WX-SR200P series.
- By changing the antenna field selection setting, the usable area can be selected from three levels.
- It is easy to install and can be mounted on the ceiling or wall.

## Disclaimer of warranty

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- (2) ANY INCONVENIENCE, LOSS, OR DAMAGE CAUSED BY INAPPROPRIATE USE OR NEGLIGENT OPERATION OF THE USER;
- (3) ALL MALFUNCTIONS OR TROUBLES FROM UNAUTHORIZED DISASSEMBLE, REPAIR OR MODIFICATION OF THE PRODUCT BY THE USER, REGARDLESS OF THE CAUSE OF THE MALFUNCTION OR TROUBLE;
- (4) ANY PROBLEM CAUSING FAILED SIGNAL TRANSMISSION RESULTING IN CONSEQUENTIAL INCONVENIENCE, LOSS OR DAMAGE, ARISING OUT OF CAUSES SUCH AS SYSTEM MALFUNCTION, FAULT, SET UP OR INSTALLATION;
- (5) ANY PROBLEM, CONSEQUENTIAL INCONVENIENCE, OR LOSS OR DAMAGE, ARISING OUT OF THE SYSTEM COMBINED BY THE DEVICES OF THIRD PARTY;
- (6) IMPOSSIBILITY TO USE THE PRODUCT OR ANY INCONVENIENCE, LOSS, OR DAMAGE ARISING OUT OF THE IMPOSSIBILITY TO USE THE PRODUCT BECAUSE OF RADIO WAVES BROADCAST BY THIRD PARTIES.

Panasonic Connect Co., Ltd. is not responsible for accidents or damage caused by installation methods not described in the Operating Instructions or by methods that do not use the specified parts. In addition, failures occurred due to installation will not be covered by the product warranty.

## Open source software

This product use the following open source software:

lwIP's License

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Contact: [oss-cd-request@gg.jp.panasonic.com](mailto:oss-cd-request@gg.jp.panasonic.com)

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## Before use

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### Copyright

Except for open source software licensed under GPL/LGPL and so on, distributing, copying, disassembling, reverse compiling and reverse engineering of the software provided with this product are all expressly prohibited. In addition, exporting any software provided with this product violating export laws is prohibited.

### Regarding radio waves

- **This product is a wireless unit that uses the frequency band from 1921.536 to 1928.448 MHz.**
- **Note regarding the frequencies used by this product**

The frequency band used by this product is used by different types of digital cordless telephone equipment.

This product was designed to avoid radio frequency interference with other wireless equipment that uses the same frequency band. However, in the event that this product produces harmful interference with other wireless equipment, please turn the power off, notify your dealer, and contact us regarding measures to avoid interference (for example, installing partitions).

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# Precautions

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**Panasonic Connect Co., Ltd. assumes no responsibility for injuries or property damage resulting from failures arising out of improper installation, operation inconsistent with this documentation or through use of parts other than this product, such as locally procured parts.**

- Entrust building operations to a retailer.  
The building operations needed to install this product require skill and experience. There is a risk of fires, electric shocks, injuries, and damage to property. Always ask a retailer to do this.
- For information about screws and parts required for installation, refer to the corresponding section of this document.
- Tighten screws and bolts with the specified tools.  
Failing to do so may cause parts to fall leading to accidents and injuries.
- Install the product so that its weight is properly supported.  
Failing to do so may cause the product to fall leading to accidents and injuries.  
Make sure that your chosen installation method offers enough support before installing the product.
- Do not install at places exposed to large amount of humidity and/or dust.  
It may lead to fire or electric shock.
- Do not install the product where there is a risk of damage from seawater or corrosive gases.  
This may cause the mounting unit to deteriorate, leading to accidents and injuries.
- In the event of a malfunction or other abnormal occurrence, stop using the unit immediately.  
If you continue to use the unit despite the presence of smoke, unusual smells, or cracking on the exterior of the unit, there is a risk of injury or property damage due to fire or the unit falling from its mounting.  
Do not ignore the problem. Immediately turn off the unit and notify your dealer.
- Do not attempt to repair or wire the product while it is turned ON.  
It may lead to fire or electric shock.
- Connect the wiring correctly.
- If cracks or fissures appear in the exterior of the unit, stop using it and remove it from its mounting.  
There is a risk of the unit falling from its mounting.  
Be sure to ask your dealer to perform this work.
- If the unit is no longer used or becomes disabled, it should be removed from its mounting rather than left in place.  
There is a risk that it could fall from its mounting due to corrosion of various components.  
Be sure to ask your dealer to perform this work.
- Be sure to inspect the unit after an earthquake.  
There is a risk that it could come loose and fall due to damage to the mounting.  
Be sure to ask your dealer to perform this work.
- Tighten the mounting screws firmly.  
There is a risk of injury if the unit falls from its mounting.  
Be sure to ask your dealer to perform this work.



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- Do not bring the product near medical equipment (do not bring it into operation rooms, ICUs, CCUs, etc.)  
The radio waves emitted from the product may interfere with the medical equipment causing it to malfunction and lead to accidents.
  - Do not install near automatic doors, fire alarms, and other automatic controllers.  
The radio waves emitted from the product may interfere with the automatic controllers causing them to malfunction and lead to accidents.
  - Do not use this unit in an atmosphere where there are flammable gases.  
Otherwise, an explosion may occur, resulting in injuries.
  - Do not let foreign substances into the product.  
Water or metals entering the product may lead to fires or electric shocks.  
Immediately turn the power off and contact the retailer.
  - Do not attempt to replace parts while the unit is mounted.  
There is a risk of an accident due to falling parts.
  - Do not attempt to install the unit if the mounting bracket is deformed or the exterior is damaged.  
There is a risk of an accident due to the unit falling from its mounting.
  - Do not attempt to disassemble or remodel the product.  
It may lead to fire or electric shock and may cause parts to fall, leading to accidents and injuries.
  - Do not spill any liquid.  
It may lead to fire or electric shock.  
Immediately turn the product OFF and contact the retailer.
  - Ask your dealer to do the installation work.  
Expertise and experience are required to install this unit. Otherwise, injuries or damage to this unit may result.  
Be sure to ask your dealer to perform this work.
  - Only qualified personnel should perform work on ladders and elevated working platforms.  
Expertise and experience are required to install this unit. Otherwise, injuries or damage to this unit may result.  
Be sure to ask your dealer to perform this work.
  - Do not put this product on a place with moisture or dirt.  
There is the risk of injury.
  - Do not hang. Do not use as a foothold.  
It may lead to an injury or accident.
  - If there is an abnormality in the unit or mounting bracket, do not leave it unattended.  
Leaving it for a long period of time may accelerate the deterioration of the parts and lead to an injury or accident due to falling.  
Ask your dealer for removal.
  - Inspect regularly.  
If bracket or screws rust, it may lead to an injury or accident due to falling.  
Ask your dealer for inspection.
  - Do not apply excessive force.  
Doing so may damage the mounting part and lead to an injury or accident due to falling.

## Precautions

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- Install at a height where people will not run into the product.  
It may lead to injury.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

# Operating precautions

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**This product is a Professional equipment.**

**This product is designed to be used indoors.**

- This product is not operable outdoors.
- Do not expose this product to direct sunlight for hours and do not install the product near a heater or an air conditioner. Otherwise, it may cause deformation, discoloration and malfunction.  
Keep this product away from water and moisture.

**Handle the unit carefully.**

- This product uses parts that may be damaged by improper handling or storage.
- Do not use this apparatus near water.
- If parts are defective, please repair or replace them.

**To cut the power supply**

- This product has no power switch. When disconnecting this product from the power supply, unplug the LAN cable that is connected to the Ceiling Array Microphone. If it is hard to unplug the LAN cable due to the installation conditions, turn off the power switch of the PoE power supply layer 2 switch connected to the Ceiling Array Microphone connected to this product, or unplug the LAN cable connected to the PoE power supply layer 2 switch.

**Regarding eavesdropping**

- This product uses digital signals to make interception difficult, but because it transmits over radio waves, deliberate eavesdropping by third parties is a possibility.

**Maintenance**

- Turn off the unit's power and wipe the surfaces using a soft dry cloth.
- Avoid using benzene, paint thinners and other volatile substances.
- Do not use cleaning fluid sprays, hose water, high pressure cleaners, or high temperature steam.
- When using a chemical cloth for cleaning, read the caution provided with the chemical cloth product.

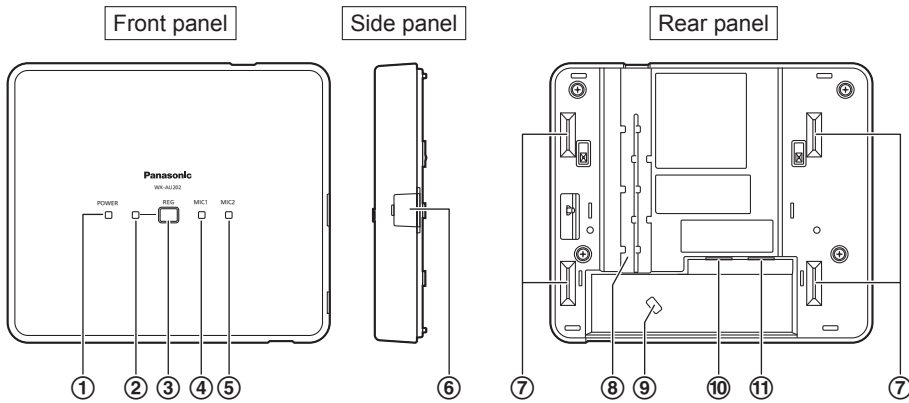
**When not using for long periods of time**

- If you will no longer be using the unit, rather than leaving it in place, please ask a dealer to remove it.

**About condensation**

- Note that condensation may result in malfunction.  
Condensation is more likely to occur in the following conditions.
  - When the humidity is high
  - When moving from a cold place to a hot or humid place
- If condensation occurs, leave it for about 1 to 2 hours, and then check that the condensation is gone before turning on the unit.

# Major operating controls and their functions



## ① Power indicator [POWER]

Displays the power status of the unit.

Lit (green) : Power is on

Blinking (green): Cannot perform wireless synchronization on startup when power is on, or wireless synchronization is lost during operation (when sub-antenna is set)

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### Note:

- If the unit that is set as the sub-antenna cannot perform wireless synchronization on startup or loses wireless synchronization during operation, it will light up in green for 5 seconds, turn off briefly, and repeat until the power is turned off.
- 

Lit (red) : System error

Off : Power is off

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### Note:

- For the sub-antenna setting and wireless synchronization setting, please refer to the Operating Instructions of the Ceiling Array Microphone and the Microphone System Configuration Center (Mic CC).
- 

## ② Registration indicator [REG]

Displays the status of the microphone registration mode.

Blinking (orange): ID registration mode is activated

### ③ Registration button [REG]

This button performs operations related to ID registration between the target channel and microphone.

- ID registration
  - :Press for at least 2 seconds to enter ID registration mode and activate MIC1 registration mode.
  - If you then press again briefly, it will enter MIC2 registration mode.
- Canceling registration mode
  - :Press the registration button again for at least 2 seconds during registration mode to cancel registration mode.

### ④ MIC1 indicator [MIC1]

Displays the connection status of MIC1.

Lit (green): MIC1 is in use

Blinking (green): MIC1 is registering

### ⑤ MIC2 indicator [MIC2]

Displays the connection status of MIC2.

Lit (green): MIC2 is in use

Blinking (green): MIC2 is registering

### ⑥ Screw cover

Used for installation on the ceiling or wall. Open this screw cover to secure the fixing bracket with a screw.

### ⑦ Hook notches

Used for installation on the ceiling or wall. These are notches for catching the hooks on the fixing bracket.

### ⑧ Cable fixing groove

Groove for securing a CAT 5e or CAT 6 straight-through cable.

### ⑨ Cable tie fixing part

Secure the cable by passing it through the supplied cable tie.

### ⑩ Ceiling Array Microphone connection terminal

The connection terminal for the Ceiling Array Microphone. Connect the Ceiling Array Microphone with a CAT 5e or CAT 6 straight-through cable.

### ⑪ Maintenance terminal

Not used.

# About operation settings

The operation settings of this unit are set from the Microphone System Configuration Center (Mic CC) connected to the Ceiling Array Microphone to which this unit is connected. The available options are shown in the table below. For details about the settings, please refer to the Operating Instructions for the Ceiling Array Microphone and Mic CC.

Name	Function	Setting value		Reference
Field selection setting	Sets the wireless output level of this unit.	Small	Cover area radius of about 8 m (26 ft)	Ceiling Array Microphone, Mic CC
		Medium*	Cover area radius of about 15 m (49 ft)	
		Large	Cover area radius of about 30 m (99 ft)	
Wireless synchronization setting	Sets the antenna type for performing or not performing wireless synchronization.	Standalone*		Ceiling Array Microphone, Mic CC
		Sub (sub-antenna)		
Microphone battery setting	Sets the battery type of the microphone used with this unit.	Nickel metal hydride battery*		Ceiling Array Microphone, Mic CC
		Alkaline battery		
Microphone audio setting	Sets the audio of the microphone used with this unit.	Standard*		Ceiling Array Microphone, Mic CC
		High-grade		

\* Default setting

# How to install

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## ■ Notes on installation

### **WARNING:**

- Ask your dealer to carry out the installation work.  
Before starting the installation work, power off the units to be connected. In addition, read the “Safety precautions” section carefully and follow its instructions. Be sure to also read the instructions that came with the unit to be connected.
- To prevent injury, this unit needs to be securely attached to the ceiling or wall in accordance with the instruction manual.

**Ensure that the installation work complies with the technical standards governing electrical equipment.**

### **This product is intended for indoor use only**

It cannot be used outdoors.

Avoid exposing the product to direct sunlight for extended periods of time, and do not install it near air conditioners or heaters. Failing to do so may lead to damage to the shape and color of the product, and may cause it to malfunction. Also avoid exposure to water droplets and bubbles.

### **Concerning the installation location**

- Install the product within the coverage of the microphones.
- If a display or projector is installed between the location where the microphones are used and the Wireless Antenna Unit, the radio waves will be blocked and the sound will be interrupted. Install the Wireless Antenna Unit in a location where the microphones can be seen.
- This system uses the same frequency band (1.9 GHz band) as DECT wireless devices such as cordless phones. If there is a DECT wireless device such as cordless phone on the same floor, it may interfere with radio waves, making it difficult to make a call or interrupting a call.
- When using in a space surrounded by walls, floors, and ceilings made of metal such as copper, aluminum, and iron, there is significant radio wave reflection, and a phenomenon of radio wave interference called multipath fading is likely to occur. When multipath fading occurs, communication errors (sound interruptions) occur even if the strength of radio waves is sufficient.
- Concrete walls and metal panels (such as partitions and wall-mounted locker doors) block radio waves. Make sure there are no obstructions between the unit and the microphones.

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### **Note:**

- If the Wireless Antenna Unit is installed in a low place, the reach may be shorter than the estimated distance.
-

# How to install

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## Parts required for installation

- For information on screws and other parts required for installation, refer to the relevant sections in this manual.

## Avoid installing in the following locations.

- Locations in direct sunlight or near warm-air vents
- Locations subject to having strong vibration or impact
- Locations where there is moisture, dust, or vibration
- Locations where a chemical agent is used such as a swimming pool
- Locations where condensation forms easily, where temperature changes greatly, humid places
- Locations such as kitchens where there are high concentrations of steam and grease
- Locations near magnetic field sources such as a television or speakers
- Locations behind blackboards, whiteboards, displays, and projectors, from where the microphones will be used
- Locations subject to water splash or spray
- Locations where radiation or x-ray emissions are produced
- Locations inside a housing made of metal
- Locations near appliances such as TVs, radios, or personal computers
- Locations near a digital satellite broadcast receiver (such as a tuner or a digital TV or video recorder with a built-in tuner)
- Locations inside metal covered wagons

## Regarding installation in high places

ID registration between the microphones and this unit requires pressing the registration button on the unit or setting the Mic CC connected to the Ceiling Array Microphone to registration mode. If you install this unit in a high place where you cannot press the registration button, be sure to use it in combination with the Ceiling Array Microphone and Mic CC.

## Regarding radio frequency interference

If there is a product nearby that emits strong radio noise, this product may be rendered unusable due to radio frequency interference.

In that case, install the product at a distance where it will not be subject to radio frequency interference.

In the following case, contact a retailer beforehand to confirm suitability of the environment for use with the antenna:

– Using the antenna on a wagon trolley

As the antenna uses the same frequency (1.9 GHz) as other DECT devices such as cordless phones, the maximum number of usable microphones may be limited.

## Regarding static electricity

In order to prevent damage due to static electricity, discharge any static electricity on your body by touching a metal ground prior to the installation work.



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### **Equipment classification and power source indication label**

Refer to the indication label on the rear panel of this unit for the equipment classification, power source, and other information.

### **Regarding tightening the screws**

- Make sure the screws remain straight as you tighten them. After tightening the screws, inspect them visually to make sure they are securely in place with no rattling.
- Impact screwdrivers and electric screwdrivers should not be used because their torque is hard to control, even on models with a clutch, and they may cause damage to the mounting.

### **Severe impact**

- Do not subject this product to severe impact or force. There is a possibility that the product may be damaged.

### **Regarding LAN cables**

- Cables are not supplied.  
Separately prepare a CAT 5e or CAT 6 straight-through network LAN compatible cable. Cable lengths are limited and depends on the connection. For details, refer to “How to connect” (page 24).

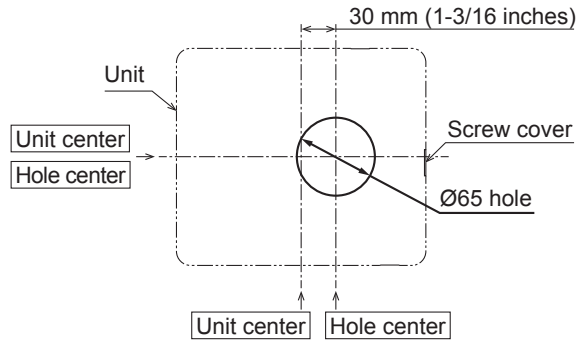
# How to install

## ■ Ceiling-mounted installation

Disconnect the cable from the unit and install in accordance with the following instructions.

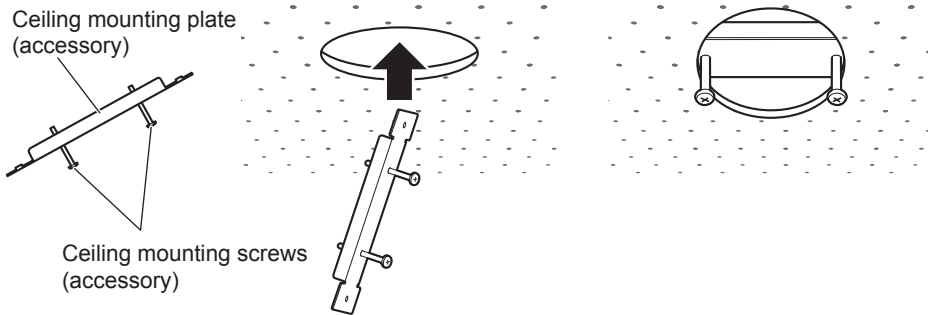
### 1 Drill a hole in the ceiling panel.

Drill a  $\text{Ø}65$  mm (2-9/16 inches) hole in the ceiling panel. Drill at a position shifted 30 mm (1-3/16 inches) to the right from the targeted center of this unit installation.



### 2 Install the ceiling mounting plate (accessory).

- ① Temporarily tighten the 2 ceiling mounting screws (M4 × 35 mm, accessory) on the ceiling mounting plate so that they protrude at least 5 mm (3/16 inches) from the ceiling thickness.
- ② Install the product behind the ceiling through the ceiling mounting plate with the temporarily tightened screws in the  $\text{Ø}65$  mm (2-9/16 inches) hole.



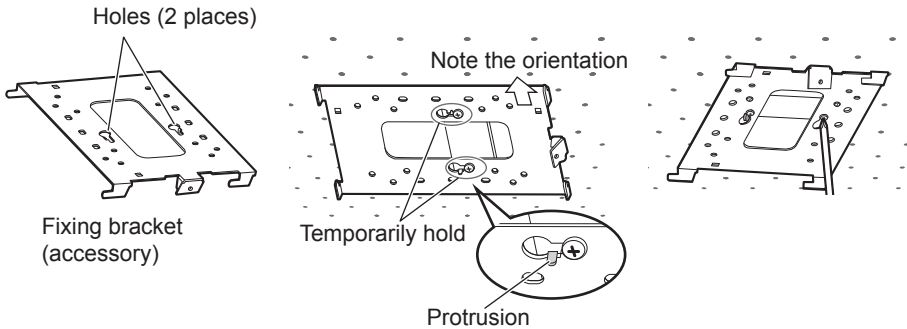
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**Note:**

- If the thickness of the ceiling is 30 mm (1-3/16 inches) or more, separately procure screws (M4 × 40 mm or longer).
-

### 3 Secure the fixing bracket (accessory).

- ① Slide the ceiling mounting screws installed in step 2 through the fixing bracket holes and temporarily hold it.
- ② Secure the fixing bracket. At this time, note the orientation indicated by ↑ on the fixing bracket. The ↑ indicates the up direction for the product.
  - Screw tightening torque: 0.4 N·m to 0.6 N·m {4 kgf·cm to 6 kgf·cm}



#### Important:

- To prevent the unit from falling, be sure to secure it by sliding it over the protrusions of the fixing bracket holes (2 places). If you do not slide it over the protrusions, the unit may fall off.
- To prevent the unit from falling, do not use a fixing bracket other than the one supplied with this product.

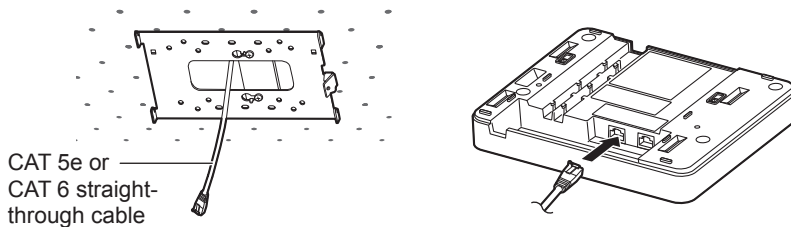
#### Note:

- Tighten securely to the specified torque using a torque screwdriver or similar tool.

### 4 Connect the cable to the unit.

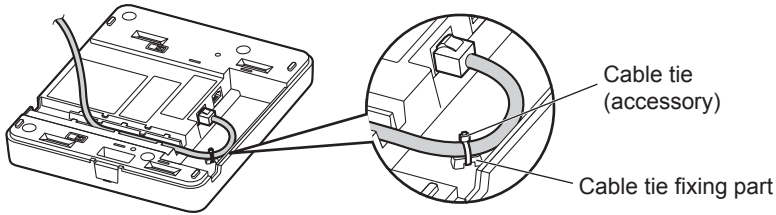
Pass the CAT 5e or CAT 6 straight-through cable through the fixing bracket and connect it to the unit.

For the cable connection, refer to “How to connect” (page 24).



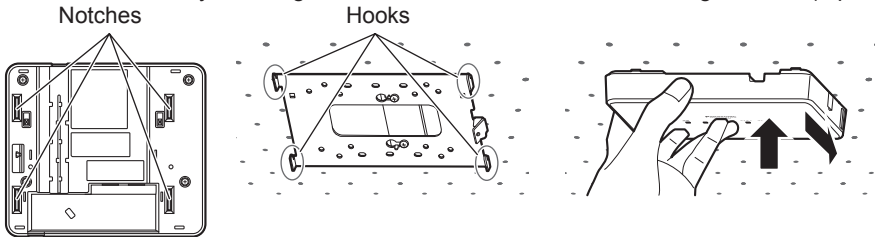
# How to install

- As shown in the figure below, pass the supplied cable tie through the cable tie fixing part to secure the connection cable, and then pass it halfway through the cable tie fixing groove at the rear panel of the unit to avoid pinching the cable when installing the unit.



## 5 Mount the unit.

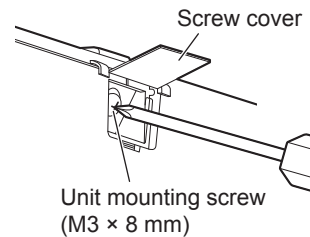
- ① Mount the unit by catching the notches on the hooks on the fixing bracket. (4 places)



- ② Open the screw cover on the side of the unit, and secure the unit to the fixing bracket using the supplied unit mounting screw (M3 × 8 mm).

- Screw tightening torque: 0.6 N·m to 0.7 N·m  
{6 kgf·cm to 7 kgf·cm}

- ③ Close the screw cover.



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**Important:**

- To prevent the unit from falling, be sure to securely tighten the unit mounting screw. If you do not tighten it, the unit may fall off.
- 

**Note:**

- Tighten securely to the specified torque using a torque screwdriver or similar tool.
  - Use a screwdriver with a magnetic bit.
- 

## 6 Check the installation.

After installation is complete, verify that everything is properly secured. Make sure there are no loose parts or other mounting problems.

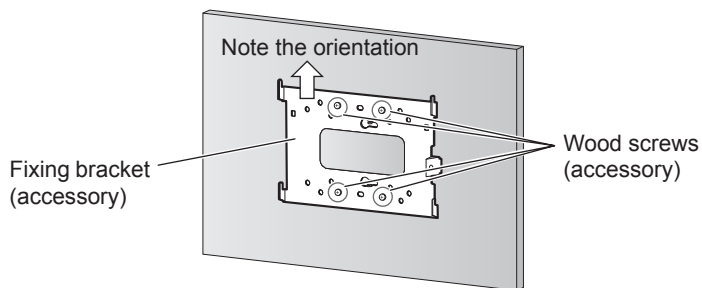
## ■ Wall-mounted installation (using the fixing bracket)

To install this product, disconnect the cable from the unit, and then install it in accordance with the following instructions.

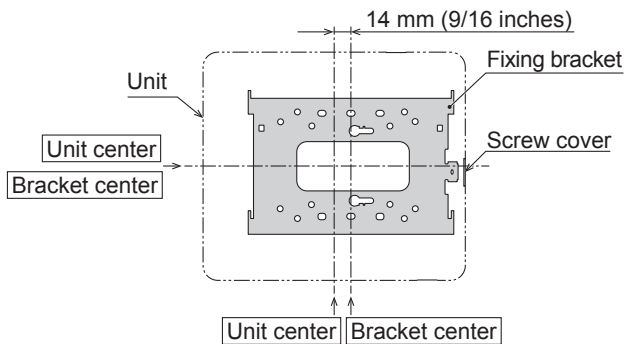
### 1 Screw the fixing bracket to the wall.

Use the 4 supplied wood screws (4.1 mm × 25 mm) to mount the fixing bracket (accessory).

At this time, note the orientation indicated by ↑ on the fixing bracket. The ↑ indicates the up direction for the product.



- The center of the unit and the center of the fixing bracket are off by 14 mm (9/16 inches). Install the fixing bracket at a position shifted 14 mm (9/16 inches) to the right from the targeted center of this unit installation.



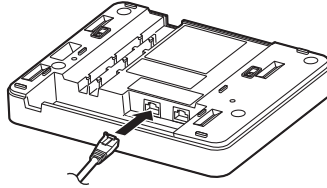
#### Important:

- Each screw should have a pull-out strength of at least 196 N.
- Do not mount the bracket on gypsum board, plywood, or other low-strength wall materials. Or, if this is unavoidable, be sure to use sufficient reinforcement.
- To prevent the unit from falling, do not use a fixing bracket and wood screws other than those supplied with this product.

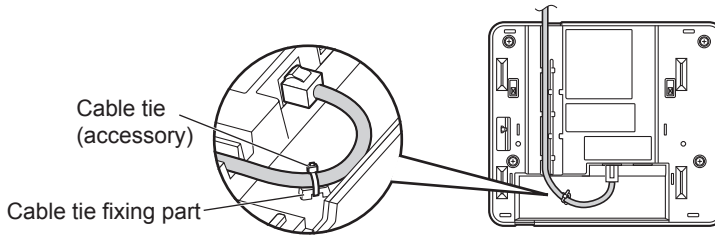
# How to install

## 2 Connect the cable to the unit.

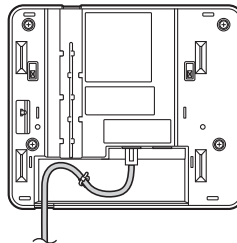
Connect the CAT 5e or CAT 6 straight-through cable to the unit. For the cable connection, refer to “How to connect” (page 24).



- When pulling out the connection cable through the top of the unit, pass the supplied cable tie through the cable tie fixing part to secure the connection cable as shown in the figure below, pass it through the cable fixing groove at the rear panel of the unit, and pull the cable out through the top of the unit.

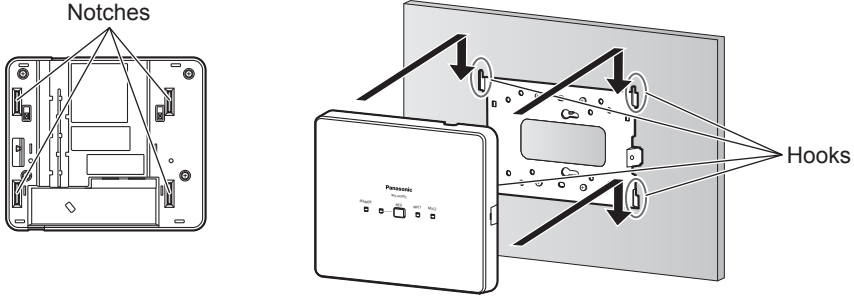


- When pulling out the connection cable through the bottom of the unit, pass the supplied cable tie through the cable tie fixing part to secure the connection cable as shown in the figure below.



### 3 Mount the unit.

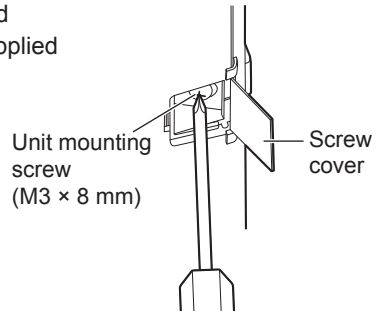
- ① Mount the unit by catching the notches on the hooks on the fixing bracket.  
(4 places)



- ② Open the screw cover on the side of the unit, and secure the unit to the fixing bracket using the supplied unit mounting screw (M3 × 8 mm).

- Screw tightening torque: 0.6 N·m to 0.7 N·m  
{6 kgf·cm to 7 kgf·cm}

- ③ Close the screw cover.



---

**Important:**

- To prevent the unit from falling, be sure to securely tighten the unit mounting screw. If you do not tighten it, the unit may fall off.
- 

**Note:**

- Tighten securely to the specified torque using a torque screwdriver or similar tool.
  - Use a screwdriver with a magnetic bit.
- 

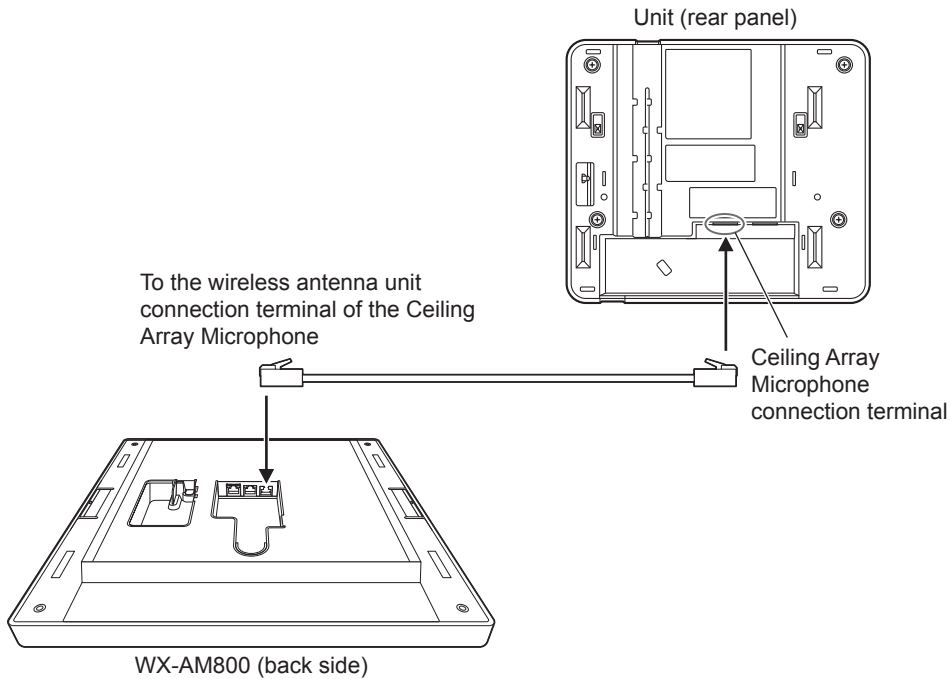
### 4 Check the installation.

After installation is complete, verify that everything is properly secured. Make sure there are no loose parts or other mounting problems.

# How to connect

Power can be received by connecting this unit to the Ceiling Array Microphone. In addition, you can output the audio from the microphones to the Ceiling Array Microphone, output the audio from the amplifier and speakers connected to the Ceiling Array Microphone, and output the audio sent to a remote destination for teleconference.

## 1 Connect the unit and the Ceiling Array Microphone with a CAT 5e or CAT 6 straight-through cable.



### Important:

- The connection terminal for the Ceiling Array Microphone was designed specifically for this unit. Do not connect this unit to a PoE (Power over Ethernet) unit (a hub or router with power supply capabilities). Doing so may cause damage.
- Be sure to connect this unit and the Ceiling Array Microphone with a straight-through cable. Connecting with a crossover cable may cause damage.
- When installing multiple Ceiling Array Microphones in the same room, up to two of this unit can be installed.

### Note:

- Use a CAT 5e or CAT 6 straight-through cable no longer than 60 m (196 ft).
- Use a cable with a diameter larger than AWG26.



# ID registration

In order to establish communication between this unit and a microphone, it is necessary to register a pairing (hereinafter referred to as “registration”) between them.

Registration is done when you want to use a microphone that has not been registered with this unit, or when a registration error occurs.

The maximum number of microphones that can be registered to one Wireless Antenna Unit and the number of microphones that can be used at the same time are as follows.

If you register more than the number that can be registered, the previously registered microphones will be overwritten, starting with the oldest.

Maximum number of microphones that can be registered	Number of microphones that can be used at the same time
6 per channel	2 (1 per channel)

For details about ID registration, please also refer to the Operating Instructions for the microphones.

## Important:

- It takes about 10 seconds to save the registration information of a registered microphone. Do not turn off the power immediately after ID registration (within 10 seconds).

## ■ Wireless registration

Use wireless communication between a microphone and the Wireless Antenna Unit for registration. Perform registration at a distance where wireless communication with the unit is possible.

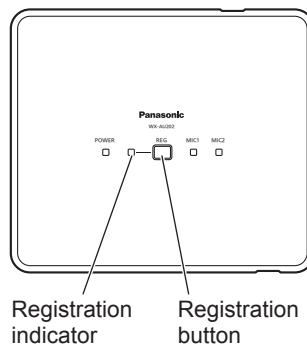
### 1 Remove the microphone battery cover (no portable wireless transmitter required).

For details, please refer to the Operating Instructions of the microphones.

### 2 Put the Wireless Antenna Unit in registration mode.

Check that the power indicator (green) of the unit is lit, and press the registration button on the unit for at least 2 seconds. In registration mode, the registration indicator blinks orange.

The registration mode is the registration mode for MIC1 first, and the MIC1 indicator blinks green. If you press the registration button briefly after that, it will enter MIC2 registration mode and the MIC2 indicator will blink green. Registration mode lasts for 30 seconds. Register the target microphone while the indicator of the microphone to be registered is blinking.



## Note:

- The Wireless Antenna Unit can be put into registration mode from a Mic CC connected to a Ceiling Array Microphone. For details, please refer to the Operating Instructions of Mic CC.

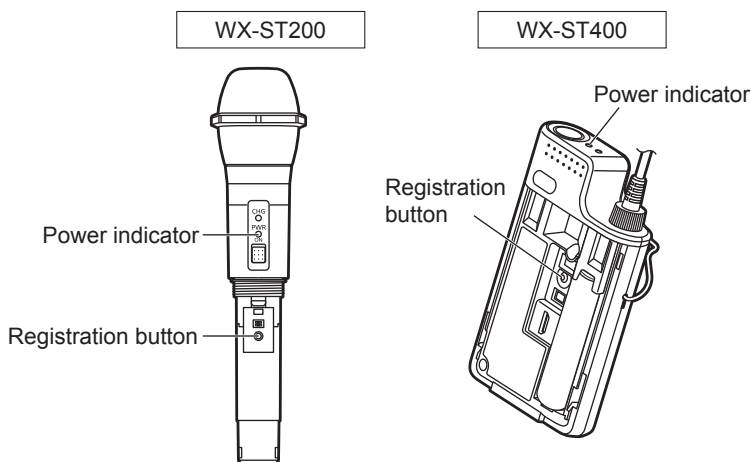
## ID registration

### 3 Register the microphone.

If you press the registration button of the microphone for at least 2 seconds while the power of the microphone to be registered is “on”, the power indicator of the microphone blinks orange and registration starts.

When registration completes successfully, the power indicator on the microphone will change to the normal lighting state (green/orange/red) according to the remaining battery level, and the registration indicator for the registered channel on the unit will light in green for 1 second and then turn off.

- If registration fails, the power indicator on the microphone blinks red. In that case, move the microphone as close to the antenna as possible and perform registration again.



### 4 Attach the microphone battery cover (no portable wireless transmitter required).

For details, please refer to the Operating Instructions of the microphones.

#### Note:

- If you are using a microphone, the registration button will be disabled regardless of the channel you are using. To register another microphone to the channel you are using, turn off all the microphones in use before registering.
- The unit cannot put multiple channels into registration mode at the same time.
- If one channel of the unit is in registration mode, other channels cannot be used.
- Registered microphones can be deleted from Mic CC connected to the Ceiling Array Microphone. For details, please refer to the Operating Instructions of Mic CC.

# About Microphone System Configuration Center

The settings and status of this unit can be managed from the Microphone System Configuration Center (Mic CC) connected to the Ceiling Array Microphone to which this unit is connected. The unit settings and status management functions in Mic CC are as follows. For details, please refer to the Operating Instructions of Mic CC.

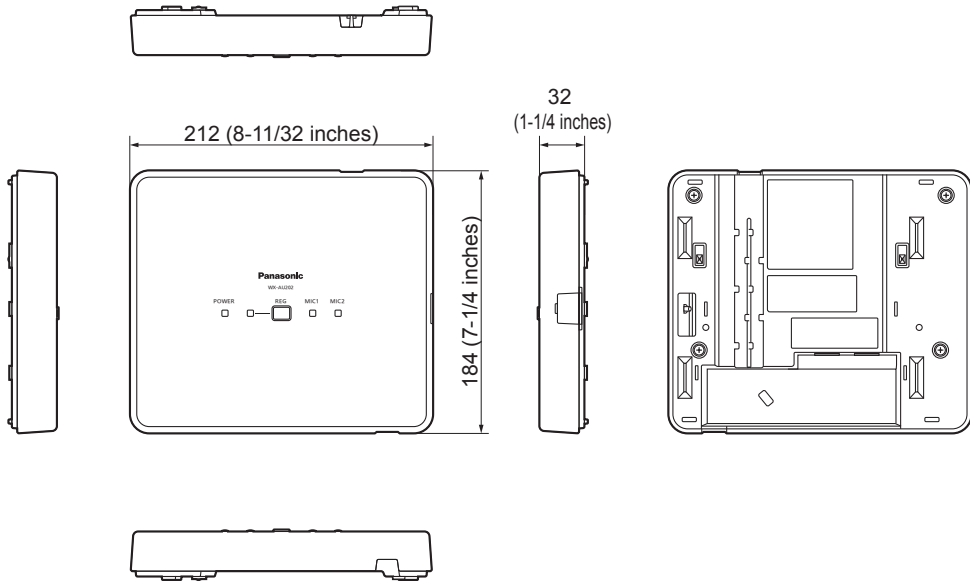
## Important:

- This system configures various settings from Mic CC. To obtain Mic CC, please contact your dealer.

Item	Description	
Status display	Wireless Antenna Unit status display	Displays the connection status, system synchronization status, and set transmission power of the Wireless Antenna Unit.
	Microphone status display	Displays microphone registration information, battery level, microphone sensitivity, low-cut settings, and pad switch (PAD) settings.
Operation settings	Registration mode	Puts the Wireless Antenna Unit into microphone registration mode.
	Delete registration	Deletes the registration of the microphone registered in the Wireless Antenna Unit.
	Name registration	Registers the name of the microphone and Wireless Antenna Unit.
	Field selection	Sets the transmission power of the Wireless Antenna Unit individually.
	Wireless synchronization	Sets the unit type for performing or not performing wireless synchronization.
	Microphone battery	Sets the battery type of the microphone to be used.
	Microphone audio	Sets the audio of the microphone to be used.
Maintenance	Standby	Sets the standby time after the microphone power is turned off.
	Slot monitor	The Wireless Antenna Unit monitors the usage of wireless resources.
	Simple spectrum analyzer	The Wireless Antenna Unit monitors the frequency spectrum around 1.9 GHz.
	Walk test	Monitors the strength of the received signal with the selected microphone.
	Version update	Updates the version of the Wireless Antenna Unit.
	Log	Displays the operation log saved in the Wireless Antenna Unit.
	Reset	Resets the settings of the Wireless Antenna Unit and resets to factory default.

# Dimensions

Unit: mm/inch



# Troubleshooting

## Check the following before requesting repair.

Consult your sales shop if these measures do not resolve a problem, if symptoms not listed here occur.

Symptom	Cause/solution	Reference pages
Power indicator does not light	<ul style="list-style-type: none"> <li>Is power being supplied?                             <ul style="list-style-type: none"> <li>➔ Check the connection between the unit and the Ceiling Array Microphone.</li> </ul> </li> </ul>	12, 24
No sound is emitted	<ul style="list-style-type: none"> <li>Is the microphone's power turned on? (Is the battery inserted?)                             <ul style="list-style-type: none"> <li>➔ Make sure the microphone's power is on and it is ready to transmit. (Insert the battery)</li> </ul> </li> </ul>	—
	<ul style="list-style-type: none"> <li>Has ID registration been done?                             <ul style="list-style-type: none"> <li>➔ If ID registration for the unit and the microphone have not been performed, the microphone's power indicator blinks red. Perform ID registration.</li> </ul> </li> </ul>	25
	<ul style="list-style-type: none"> <li>Is the MIC1 or MIC2 indicator in the receiving state (green)?                             <ul style="list-style-type: none"> <li>➔ If the microphone is not receiving sound normally, the MIC1 and MIC2 indicators will be off.</li> </ul> </li> </ul>	13
	<ul style="list-style-type: none"> <li>Is the connected Ceiling Array Microphone turned on?                             <ul style="list-style-type: none"> <li>➔ Check if it is connected to a layer 2 switch that supports PoE power supply, if the power switch of the layer 2 switch that supports PoE power supply is turned on, and if it is connected to a power outlet.</li> </ul> </li> </ul>	—
	<ul style="list-style-type: none"> <li>Is the volume of the connected Ceiling Array Microphone set too low?                             <ul style="list-style-type: none"> <li>➔ Adjust to the appropriate position.</li> </ul> </li> </ul>	—
The power indicator is red	<ul style="list-style-type: none"> <li>This is a Wireless Antenna Unit error.                             <ul style="list-style-type: none"> <li>➔ Please contact the sales company.</li> </ul> </li> </ul>	12

# Specifications

Wireless	Operating frequency	1921.536 MHz to 1928.448 MHz		
	Antenna	Internal antenna		
	Reception	3 Diversity reception		
Power	Power source	DC24 V	Ceiling Array Microphone	WX-AM800P
	Connector	RJ-45		
	Compatible cables	CAT 5e/CAT 6 straight-through cable*		
Field selection	Three step selection			
Microphone reception	Number of receptions	2 channels		
Audio output	Number of lines	Two lines		
	Rated output	-20 dBV balanced		
	Frequency characteristic	100 Hz to 15 kHz		
	Connector	RJ-45		
Display (indicators)	POWER, REG, MIC1, MIC2			
Operating temperature range	0 °C to 40 °C (32 °F to 104 °F)			
Dimensions	212 mm (W) × 184 mm (H) × 32 mm (D) (8-11/32 inches × 7-1/4 inches × 1-1/4 inches)			
Mass	Approx. 480 g (1.06 lbs) (receiver only)			
Finish	White finish (approximate color Munsell N9.3)			
Installation	Ceiling, wall			

\* Use a wire gauge with a diameter larger than AWG26.

# Standard accessories

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Operating Instructions (this manual).....	1
Ceiling mounting plate.....	1
Fixing bracket.....	1
Ceiling mounting screws (M4 × 35 mm).....	2
Unit mounting screw (M3 × 8 mm).....	1
Wood screws (4.1 mm × 25 mm).....	4
Cable tie.....	1

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Cv1023-0 PUQX1066ZA Printed in Vietnam