Panasonic®

Operating Instructions

Wireless Transmitter
Model No. WX-ST600P

Wireless Microphone
Model No. WX-ST700P

WX-ST600P   WX-ST700P
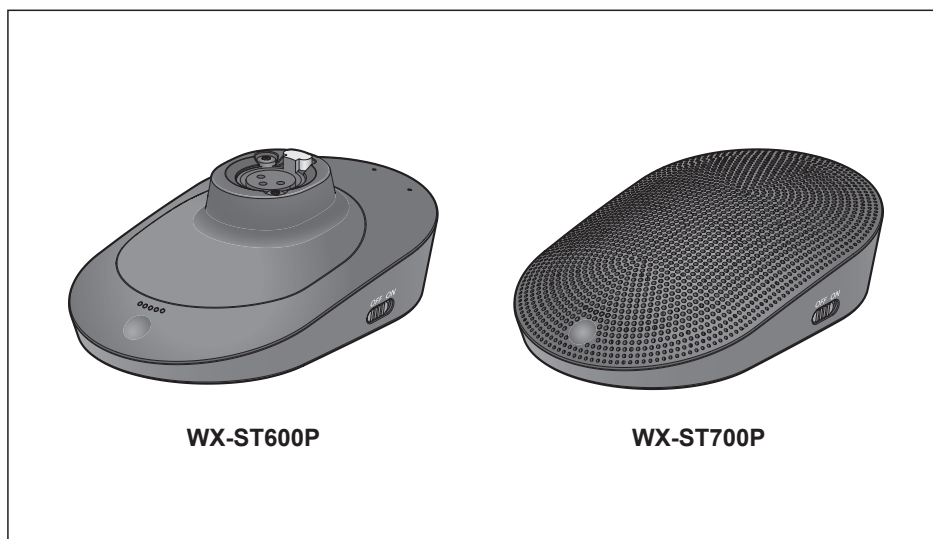
Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.
The model number is abbreviated in some descriptions in this manual.

PUQX1047ZA

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.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.
- Operating near 1.9 GHz electrical appliances may cause interference. Move away from the electrical appliances.
- 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.
- 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 115mW (max.)

For U.S.A.

Supplier's Declaration of conformity
Trade Name: Panasonic
Model No.: WX-ST600P
          WX-ST700P
Responsible Party:
  Panasonic Corporation of North America
  Two Riverfront Plaza, Newark, NJ 07102-5490
Support Contact: 1-800-491-9986
  wirelessmicsupport@us.panasonic.com

FC

A nickel metal hydride battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

RECYCLE
R B R C
Ni-MH
1.800.822.8837

For U.S.A.

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

For U.S.A.

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.

For U.S.A.

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. _____

For U.S.A.

CAUTION:
The FCC ID number for this radio equipment is listed below.

FCC ID: ACJ9TAWX-ST700P

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Safety precautions

IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this apparatus near water.

6) Clean only with dry cloth.

7) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

8) Only use attachments/accessories specified by the manufacturer.

9) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

10) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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Before use

Product overview

This product is a desktop wireless microphone.
● It uses a system based on the 1.9 GHz DECT* standard to achieve a stable connection over a wide area which makes for a clear audio with little interference.
  * DECT (Digital Enhanced Cordless Telecommunications) is a digital cordless communication standard.
● It can be connected to a wireless receiver (WX-SR202P or WX-SR204P, both sold separately) for use.
● It is equipped with a talk switch that is switchable between talk lock and push to talk.
● Remote control of talk (ON/OFF) is possible from the operations support software or external devices.
● It is equipped with a level meter (4 steps) that allows you to check the audio input level.
● It is capable of long operation over about 13 hours when AA-size rechargeable Ni-MH batteries are inserted.
● You can recharge the rechargeable batteries in the product via a USB cable.
● It is possible to supply power to the product via a USB cable so that you can use it even without batteries.
● It is possible to transmit audio by connecting an external audio source to the external input connector.

Limitation of liability

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Before use

Disclaimer of Warranty

IN NO EVENT SHALL Panasonic Connect Co., Ltd. BE LIABLE TO ANY PARTY OR ANY PERSON, EXCEPT FOR REPLACEMENT OR REASONABLE MAINTENANCE OF THE PRODUCT, FOR THE CASES, INCLUDING BUT NOT LIMITED TO BELOW:

① ANY LOSS OR DAMAGE, INCLUDING WITHOUT LIMITATION, DIRECT OR INDIRECT, SPECIAL, CONSEQUENTIAL OR EXEMPLARY, ARISING OUT OF OR RELATING TO THE PRODUCT;

② ANY INCONVENIENCE, LOSS, OR DAMAGE CAUSED BY INAPPROPRIATE USE OR NEGLIGENT OPERATION OF THE USER;

③ ALL MALFUNCTIONS OR TROUBLES FROM UNAUTHORIZED DISASSEMBLY, 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.

Copyright

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Abbreviations

This manual uses the following abbreviations.
● "Wireless Transmitter (WX-ST600P)" and "Wireless Microphone (WX-ST700P)" are referred to as "this product", "the product" or "microphone".
● "Charger (WX-SZ600P: sold separately)" is referred to as "charger".
● "Wireless Antenna (WX-SA250P: sold separately)" is referred to as "wireless antenna" or "antenna".
● "Wireless Receiver (WX-SR202P or WX-SR204P, both sold separately)" is referred to as "wireless receiver".
● "Extension Receiver (WX-SE200P: sold separately)" is referred to as "extension receiver". In addition, "wireless receiver", and "extension receiver" are referred to as "receiver".

All information on separately-sold products contained in this manual is up-to-date as of October 2022. Refer to a retailer for the latest information.

Table of contents

Precautions

Only use the original charger or power supply adapter specified by the manufacturer

Failing to do so may lead to leaks, overheating, and bursts.

Only recharge rechargeable Ni-MH batteries

Failing to do so may lead to leaks, overheating, and bursts in the batteries.

Turn the power OFF when boarding airplanes

Failing to do so may lead to safety concerns for the aircraft.

If you hear thunder while using the product outdoors, move yourself away from the product

Failing to do so may cause electric shocks.
● Immediately cease use and separate the product from your person.

If the product shows any abnormality, immediately stop using it

If the product shows abnormalities such as smoke or an unusual smell coming out of the product, or damage to its outer shell, continuing to use it may pose hazards such as the product catching on fire or falling, leading to injuries to the users or to further damage to the product itself.
● Immediately remove the batteries and contact the retailer.

**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 use 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 place on unstable surfaces

The product may fall leading to accidents or injuries.

Do not charge, open, or short-out dry-cell batteries

Doing so may cause the batteries to leak or burst, leading to fires, injuries, and burns.

Do not open or short-out rechargeable batteries

Doing so may cause the batteries to leak or burst, leading to fires, injuries, and burns.

Do not attempt to disassemble or remodel the product

It may lead to fire or electric shock.

Do not spill any liquid

It may lead to fire or electric shock.
● Immediately turn the product OFF and contact the retailer.

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Precautions

Do not perform maintenance while the product is powered ON
It may lead to injury.

Refer to a professional for disposal
Burning the product may lead to harmful chemicals causing damage to the eyes, and it could pose a fire hazard or burn risk.

Insert the batteries according to the correct polarity (positive + / negative -)
Failing to do so may cause the batteries to leak or burst, leading to fires, injuries, and damage to the surroundings.

Do not install at places exposed to large amount of humidity and/or dust
It may lead to injury.

Do not install the product where children may reach it
It may lead to injury.

Do not use Ni-Cd batteries
Internal damage may lead to fires.

Do not mix old and new batteries or batteries of different types
It may lead to leaks, overheating, and bursts in the batteries.

Usage precautions

Other than the aforementioned **"Precautions"**, make sure to follow the points below.

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.

Use this product with care
● This product contains delicate components which may be damaged by improper use or storage.
● Repair or replace any damaged components.
● Subjecting the product to strong impacts, drops, etc. may alter its fine-tuning and change its characteristics. Please use it with care. Avoid impacting the product, as this will result in a strong impact sound noise.
● Do not disassemble the product or touch its inner components.

The operating temperature range is
● Between 5 °C (41 °F) and 35 °C (95 °F). Using the product outside of this range may cause it to malfunction or to be damaged.
When calculating the usage time, consider that the batteries will last less than usual below 10 °C (50 °F).

Storage and usage locations
● Avoid using the product where it could be affected by motors, transformers, or the ignition noise of cars.
● Be especially careful when using the product in a high place. It may fall leading to malfunctions and injuries.
● Do not use the product where there is a risk of damage from seawater or corrosive gases.
● Do not use the product near TVs, radios, computers, and other office automation appliances. Doing so may cause the product to pick up noise.
● Do not use the product near CS digital broadcasting receivers (tuners, digital TV sets with internal tuners, recorders, etc.). Doing so may cause the CS digital broadcast image to deteriorate.
● Do not leave the product in hot places such as near heat-diffusing appliances (power amplifiers, video monitors, measuring instruments, etc.) or closed-off cars in the summer. When storing the product, keep it away from moisture as much as possible.

Usage precautions

Batteries
- Even when the power is turned OFF, batteries left inside the product will slowly be drained. Remove the batteries when you are not using the product, as failing to do so may cause battery leaks.
- Do not use or store batteries in hot places, such as under direct sunlight, inside closed-off cars during the summer, near open fires, stoves, etc.
- Do not touch the battery poles or the components behind the battery cover with dirty hands. Doing so may cause connection problems or noise.
- Do not use batteries which are deteriorated or which have suffered internal short-circuits. It may lead to leaks, overheating, and bursts in the batteries.
- Do not use mixtures of dry-cell batteries and rechargeable batteries, or batteries of different types, capacities, or brands. It may lead to leaks, overheating, and bursts in the batteries.
- Do not use mixtures of old and new batteries or fully charged batteries and discharged batteries. It may lead to leaks, overheating, and bursts in the batteries.

Interception
- This product uses a difficult to intercept digital signal, but, as it uses radio waves, it might be possible for a third party to willfully intercept the transmission of the product.
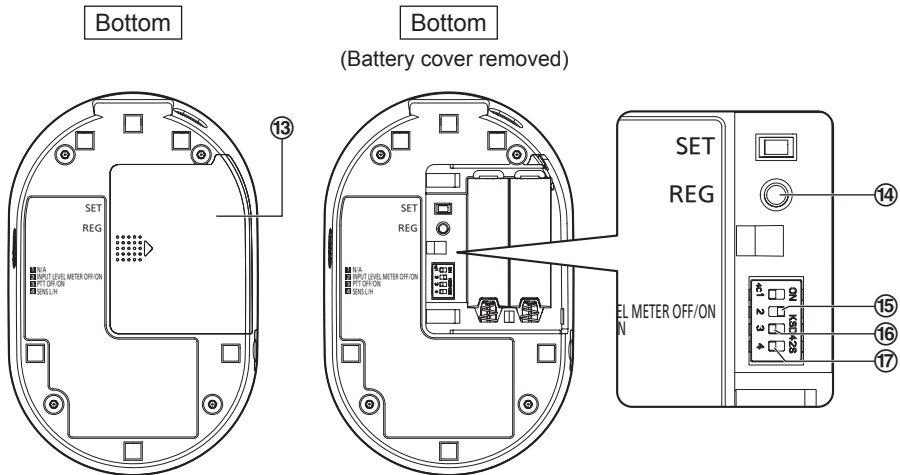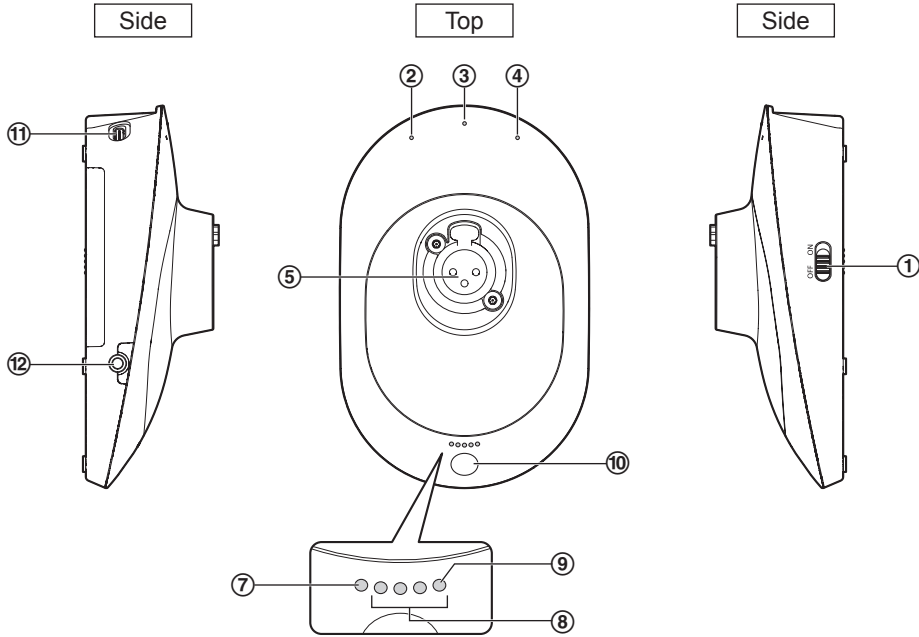
Maintenance
- Turn OFF the power and clean the product with a dry cloth.
- Do not use volatile chemicals such as benzene or paint thinner.
- When using chemically treated cloths, carefully read the included instructions.
- If the battery poles or the components behind the battery cover are dirty, clean them thoroughly with a dry, soft cloth. The components behind the battery cover get dirty very easily. Clean them periodically (around once per month) with ethyl alcohol. Do not use solvents such as benzene or paint thinner, or abrasive metal polishes, as they will damage the shape and color of the product and cause its coating to peel.
- If the surface of the product is particularly dirty, dilute mild detergent with water, then soak a soft cloth with it. Squeeze the cloth to remove excess moisture and use it to clean the product. After having cleaned the product, use a soft dry cloth to remove any residues of the detergent.

Proper use
- Preventing noise
  When inserting, removing, or replacing batteries, very loud noise may occur. To avoid this, only insert, remove, or replace the batteries after having turned the product OFF and having lowered the volume in the power amplifier, mixer, etc.

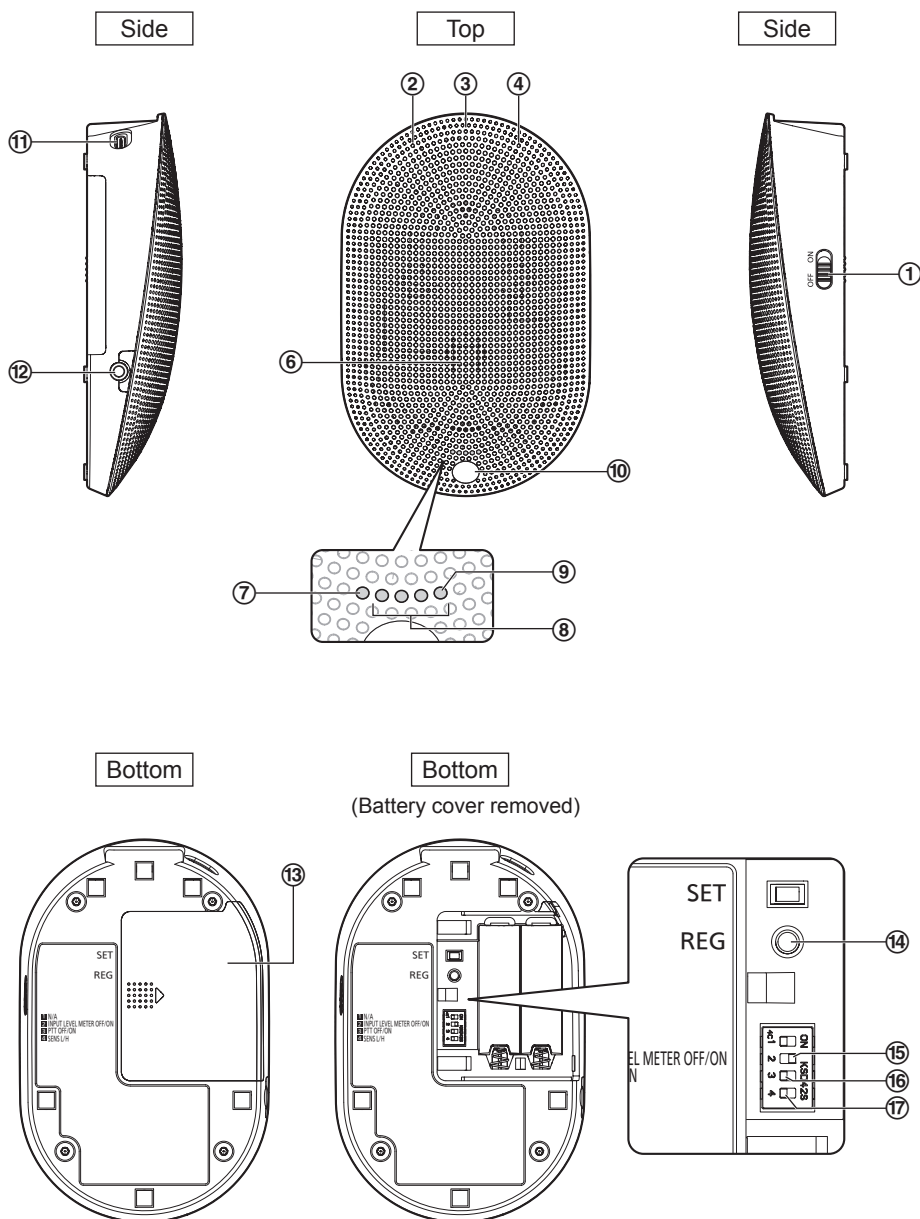12

Parts and their names

WX-ST600P

Side	Top	Side

Bottom	Bottom (Battery cover removed)

PUQX1047ZAV1_WX-ST600P_OI_en.indd   13   2022/07/19   14:46:06

Parts and their names

WX-ST700P

Side   Top   Side

Bottom   Bottom
(Battery cover removed)

①**Power switch [OFF/ON]**

Turns the microphone ON/OFF. It is a slide switch.

②**Charge indicator (USB)**

Shows the charge status.

On (red)	: The Ni-MH batteries inside the product are being recharged via USB.
Blinking (red)	: Charging error (primary battery / battery short / temperature abnormality detected / battery not inserted).
Off	: Charging completed, or power supplied via USB to this product, but there are no batteries inside.

③**Talk indicator**

Indicates the talk status.

On (green)	: Talking
On (red)	: Not talking
Blinking (red)	: Talking and the receiver channel is muted
Off	: No signal (outside of the connection area between microphone and antenna) or microphone unpaired with a receiver

④**Status indicator**

Shows the battery status.

On (green)	: Power ON
On (orange)	: Power ON (less than one hour of battery runtime remaining)
On (red)	: Battery almost depleted (recharge or exchange the batteries)
Off	: Power OFF
Blinking (green)	: Connected to the settings support software (while the simplified spectrum analyzer and slot monitor are running)
Blinking (orange)	: No signal (outside of the connection area between microphone and antenna) Pairing mode
Blinking (red)	: Microphone unpaired or failed to pair with a receiver See "Pairing" (page 24).
Alternately blinking (orange/green)	: Confirming pairing

⑤**Microphone connector (WX-ST600P only)**

The connector into which the gooseneck microphone is plugged.

⑥**Microphone unit (WX-ST700P only)**

Collects audio.

⑦**Talk indicator**

Indicates the talk status.

On (green)	: Talking
Off	: Not talking or no signal (outside of the connection area between microphone and antenna), or microphone unpaired with a receiver

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Parts and their names

⑧**Input level meter**

This indicates the audio level being input to the microphone unit when the status of the product is "talking".

This can be switched ON/OFF with the input level meter setting switch (⑮).

On (red)   : Loud. Move further away.

On (orange)   : A little loud. Move a little further away.

On (2 green indicators) : Level is acceptable.

On (1 green indicator) : Low. Move closer.

⑨**Charge indicator (charger) / Talk indicator**

When using a charger to charge

Shows the charge status.

On (red)   : The Ni-MH batteries inside the product are being recharged via charger.

Blinking (red) : Charging error (primary battery / battery short / temperature abnormality detected / battery not inserted).

Off   : Charging completed, or the product has been put into the charger but there are no batteries inside, or there are bits of metal interfering with the charging part of the charger.

When talking

Indicates the talk status.

On (red)   : Not talking

Blinking (red) : Talking and the receiver channel is muted

Off   : No signal or talking

⑩**Talk button**

Button for outputting audio.

The operation of this button depends on the setting of the PTT setting switch (⑯).

When talk lock is set

When the talk button is touched once, the talk indicators (③, ⑦) light green and audio is output.

When the talk button is touched again, the talk indicator (③) lights red and audio output is stopped.

When push to talk (PTT) is set

While touching the talk button continuously, the talk indicators (③, ⑦) light green and audio is output.

⑪**USB Type-C connector**

It is possible to supply the product with power or to charge batteries inserted in the product. Maintenance tasks can be performed by connecting with a PC on which the settings support software has been installed.

⑫**External input connector**
Transmits the audio from the external device to the receiver (page 32).
Audio is not sent from the gooseneck microphone (WX-ST600P) or built-in microphone
(WX-ST700P) when an external device is connected to this connector. Stereo audio will
become monaural.

⑬**Battery cover**
Press and slide to remove the battery cover.

⑭**Pairing button [REG] (inside the battery cover)**
This button controls the pairing between the microphone and the receiver.
● Pairing : While the power switch is set to ON, keep the [REG] button pressed for more
than two seconds to enter pairing mode (page 24).
● Pairing confirmation
: Press the [REG] button once while the power switch is set to ON to enter
pairing confirmation mode (page 28). The pairing confirmation mode lasts
for five seconds on both the microphone and the receiver, after which both
will go back to their normal operation mode.

⑮**Input level meter setting switch [INPUT LEVEL METER OFF/ON]**
(inside the battery cover)
Switches the input level meter (⑧) ON/OFF.
[INPUT LEVEL METER OFF] : Input level meter is not shown.
[INPUT LEVEL METER ON] : Input level meter is shown. (factory default)

⑯**PTT setting switch [PTT OFF/ON] (inside the battery cover)**
Switches between talk lock and push to talk.
[PTT OFF] : Talk lock (factory default)
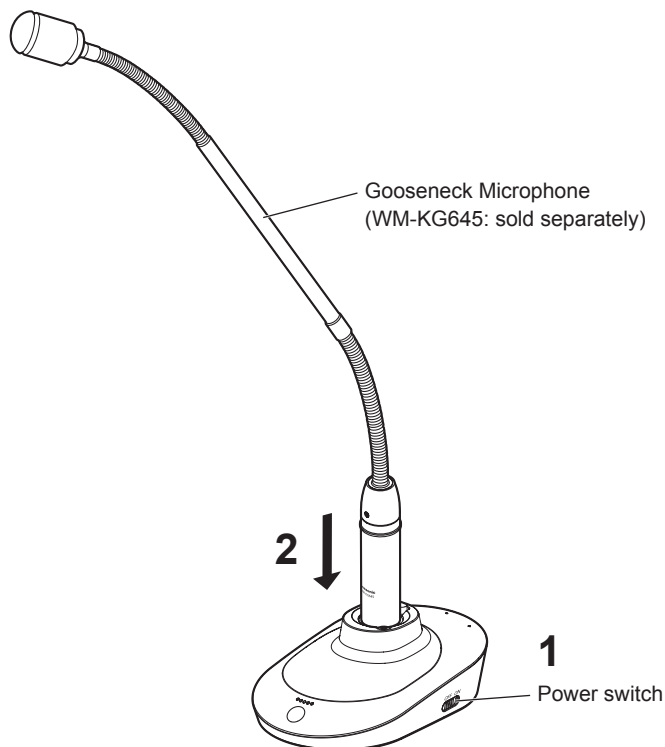[PTT ON] : Push to talk

⑰**Sensitivity setting switch [SENS L/H] (inside the battery cover)**
Sets the sensitivity to audio from for the microphone unit (page 22).
[SENS L] : Low sensitivity (factory default)
[SENS H] : High sensitivity

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Connecting a gooseneck microphone (WX-ST600P only)

Gooseneck Microphone
(WM-KG645: sold separately)

2

1

Power switch

1 **Confirm that the power switch is set to "OFF".**

2 **Insert the gooseneck microphone.**

| ！Important | ● When moving with the microphone connected, hold by the product. If you lift by the gooseneck microphone, there is a risk that the product may fall. |

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Inserting the batteries

Carefully read the "Precautions" section and follow all of its instructions.
Switch the power to OFF before inserting the batteries.
See "Replacing the batteries" (page 33) for instructions on changing the batteries.

| memo | ● Do not touch the battery poles with your hands. Doing so may cause connection problems and noise. If the battery poles become dirty, clean them with a dry, soft cloth. |
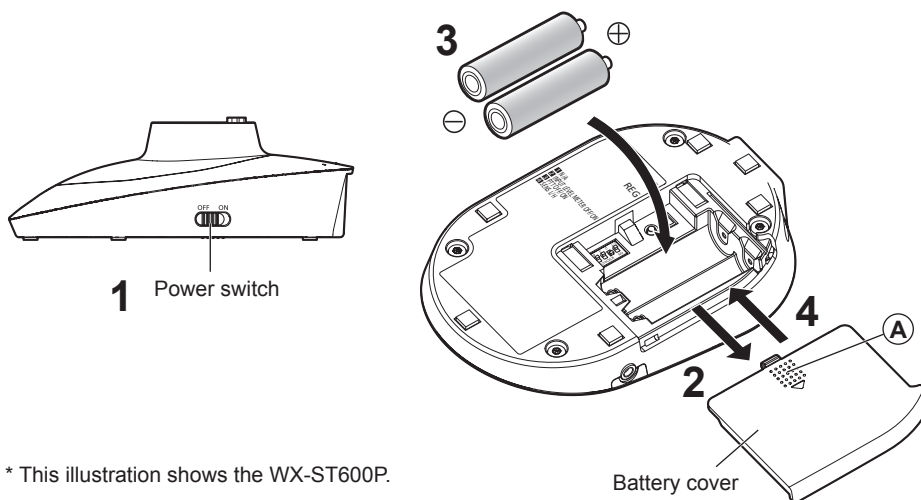
1 Power switch

* This illustration shows the WX-ST600P.

Battery cover

1 **Confirm that the power switch is set to "OFF".**

2 **Remove the battery cover**

Press on the portion labeled as Ⓐ on the bottom of the battery cover and slide the cover in the indicated direction to remove it.

3 **Insert the batteries**

Check the polarity of the batteries (positive ⊕ and negative ⊖), and insert either two rechargeable Ni-MH AA-type batteries or two AA-type alkaline dry-cell batteries in the battery slot according to the polarity indication (⊕, ⊖).

4 **Place the battery cover back on**

Slide the battery cover in the indicated direction to place it back on.
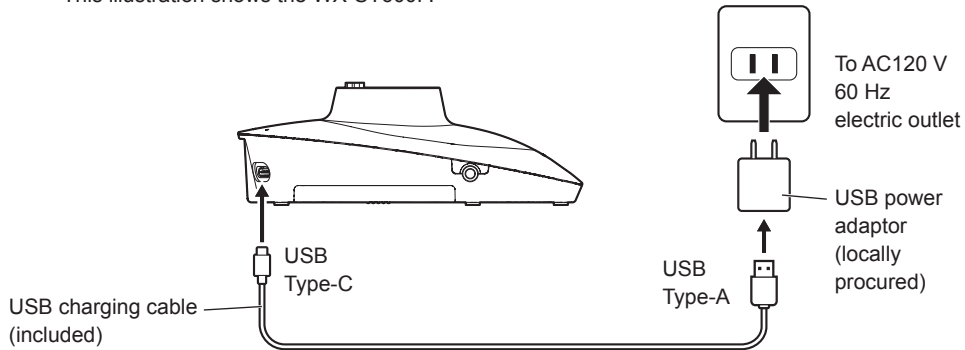
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Inserting the batteries

memo

● The charging time for Ni-MH batteries when using the dedicated charger (WX-SZ600P) depends on the type of rechargeable batteries and the usage conditions, but at longest it will be around ten hours.
● Some batteries may not perform well with this product. If possible, use one of the recommended batteries. The recommended batteries are as follows.
Rechargeable battery: BK-3MCCA Panasonic Ni-MH AA-size battery
Dry-cell batteries:　　LR6PA Panasonic alkaline AA-size battery
　　　　　　　　　　　LR6XE Panasonic alkaline AA-size battery

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Connecting a USB power adaptor

Carefully read the "Precautions" section and follow all of its instructions.
When connecting a USB power adaptor, connect when the power of this product is off.

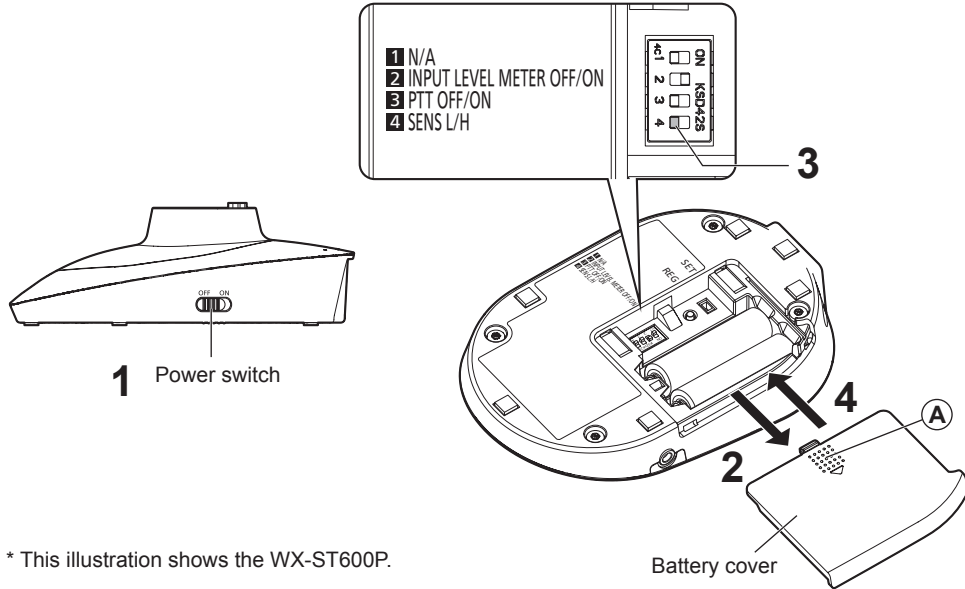* This illustration shows the WX-ST600P.

To AC120 V
60 Hz
electric outlet

USB power
adaptor
(locally
procured)

USB
Type-A

USB
Type-C

USB charging cable
(included)

1 **Make sure that the USB power adaptor is NOT connected to the AC120 V outlet.**

2 **Connect the USB charging cable to the USB power adaptor, then connect the USB Type-C plug of that cable to this product.**

3 **Connect the USB power adaptor to the AC120 V outlet.**

4 **Slide the power switch to the [ON] position to turn the microphone ON.**

Check that the status indicator lights up.

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memo

● Use a USB power adaptor that has a rated output of 5 V DC, 500 mA or more.
● Do not try to force the USB cable plug connection. Forcing it may result in damage.
● Even if dry-cell batteries have been inserted, priority is given to the USB power adaptor when a USB power adaptor has been connected.

Setting the microphone sensitivity

Sets the sensitivity to audio collected by the microphone unit.

1 N/A
2 INPUT LEVEL METER OFF/ON
3 PTT OFF/ON
4 SENS L/H

3

1 Power switch

4

2

Ⓐ

Battery cover

* This illustration shows the WX-ST600P.

1 Confirm that the power switch is set to "OFF".

2 Remove the battery cover

Press on the portion labeled as Ⓐ on the bottom of the battery cover and slide the cover in the indicated direction to remove it.

3 Set the microphone sensitivity

Set the sensitivity setting switch. Use the tip of a pen, screwdriver, or other narrow pointed object to control the switch. The settings for the switch are as follows.

[SENS L]: Low sensitivity (factory default)   [SENS H]: High sensitivity

4 Place the battery cover back on

Slide the battery cover in the indicated direction to place it back on.

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● Changing this setting while the microphone is turned ON could lead to noise. Confirm that power is "OFF" before changing the setting.

● When 2 green indicators are on, the volume when you are talking towards the microphone is acceptable.
● Set to [SENS L] if the input level meter constantly shows red.
● When using the microphone away from your mouth or when speaking in a low voice and the level shows only 1 green indicator occasionally, set to [SENS H].

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Pairing

The microphone and the receiver must be paired to each other in order to establish a connection.
Perform pairing when using a microphone which has not yet been paired to the receiver or when a registration error occurs.
The maximum number of microphones which can be paired to a receiver and the maximum number of microphones which can be used simultaneously is as follows. When the maximum number of pairable microphones is exceeded, the newest microphone will overwrite the oldest one.

| Receiver	Maximum number of pairable microphones	Maximum number of simultaneously usable microphones
WX-SR202P	6 per channel	2 (1 per channel)
WX-SR204P	6 per channel	4 (1 per channel)
WX-SE200P	6 per channel	4 (1 per channel)

Also refer to the wireless receiver / extension receiver manual.

■ Pairing with the WX-SR202P / WX-SR204P / WX-SE200P (wireless connection)

Pair the microphone to a wireless antenna via a wireless connection. Perform the pairing within the connection range of the wireless antenna connected to the wireless receiver / extension receiver to which you want to pair the microphone.

1 Remove the battery cover

Press on the portion labeled as Ⓐ on the bottom of the battery cover and slide the cover in the indicated direction to remove it.
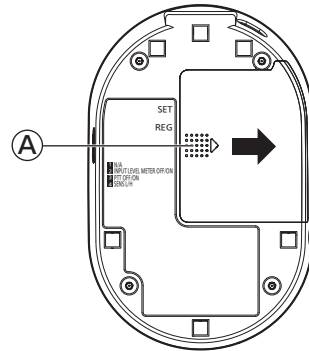
2 Set the wireless receiver / extension receiver to pairing mode

Make sure that the [POWER] indicator on the wireless receiver / extension receiver lights green, then press for at least two seconds the [REG] button of the channel to which you want to pair a microphone.
When the wireless receiver / extension receiver is in pairing mode, the [REG] indicator of the channel whose [REG] button has been pressed will blink orange. Pairing mode lasts for 30 seconds, so pair the microphone within this time.

Power indicator   Register indicator

Register button

* This illustration shows the WX-SR202P.

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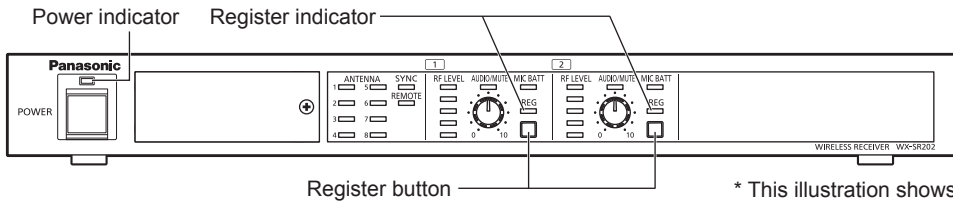
Pairing

3 Pair the microphone

With the microphone powered on, keep the [REG] button pressed for at least two seconds to start pairing (the status indicator will blink orange).

If pairing is completed successfully, the status indicator on the microphone will switch to the normal status according to the remaining battery level (green, orange, or red), and the [REG] indicator on the paired channel on the wireless receiver / extension receiver lights green for one second and then goes off.

● If pairing could not be completed successfully, the status indicator on the microphone will blink red. In that event, place the microphone as close as possible to the antenna and try pairing it again. (Pairing may fail if the microphone is too far away from the antenna or under bad connection conditions.)

Status indicator

SET
REG

Register button
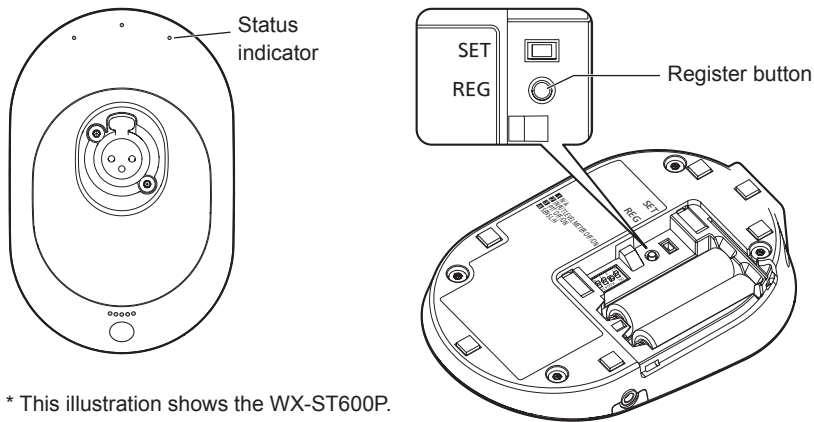
* This illustration shows the WX-ST600P.

4 Place the battery cover back on

Place the battery cover back onto the product.

memo

● While the microphone is in use, the [REG] button of the corresponding channel on the wireless receiver or extension receiver is disabled. Turn the currently paired microphone power OFF, then you can pair a different microphone to the channel that is already in use.
● The wireless receiver / extension receiver cannot enter pairing mode on multiple channels simultaneously.
● When a channel on the wireless receiver / extension receiver is in pairing mode, all other channels can still be used as normal.

■ Pairing via USB cable connection

This product (WX-ST600P / WX-ST700P) cannot be paired via a USB cable (wired) connection.

- This product can also be used in the conference mode, which enables talking if there are available channels apart from the registered channels.
- Refer to the operating instructions for the Operations Support Software (Conference mode) for information about registering of the conference mode.
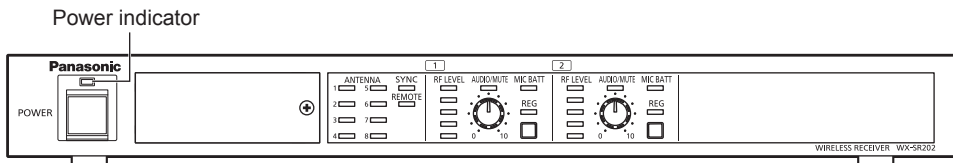
Confirming pairing

1 **Remove the battery cover**

Press on the portion labeled as Ⓐ on the bottom of the battery cover and slide the cover in the indicated direction to remove it.
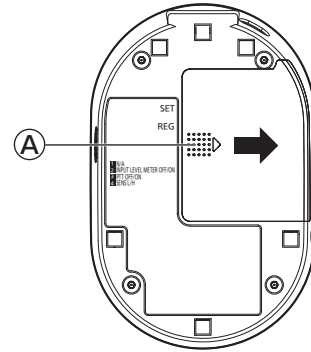
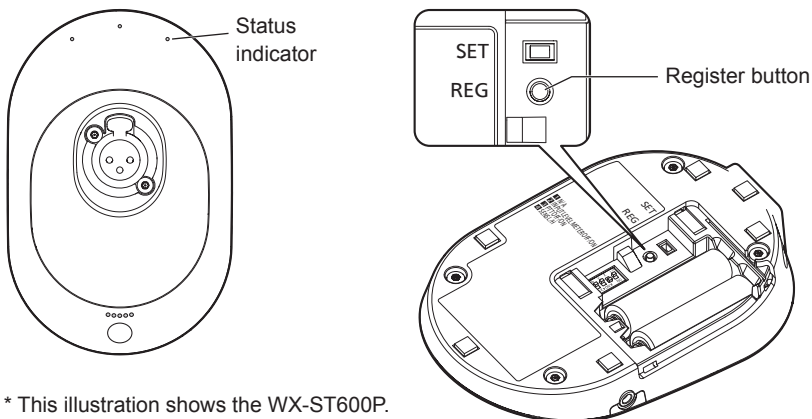**2** **Make sure the wireless receiver / extension receiver is turned ON**

Make sure that the [POWER] indicator on the wireless receiver / extension receiver lights green.

Power indicator

* This illustration shows the WX-SR202P.

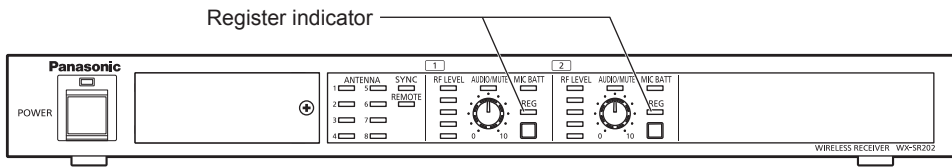**3** **Set the microphone to pairing confirmation mode**

With the microphone powered on, press the [REG] button once to enter pairing confirmation mode (the status indicator will turn green and orange alternately for five seconds).

Status indicator

Register button

* This illustration shows the WX-ST600P.

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4 Check the [REG] indicator on the receiver

While the microphone is in pairing confirmation mode, the [REG] indicator of the paired channel on the wireless receiver / extension receiver will turn green and orange alternately. This allows to confirm the pairing. The pairing confirmation mode lasts for five seconds, after which the devices will go back to their normal operation mode. Press the [REG] button once during pairing confirmation mode to go back to the normal operation mode.

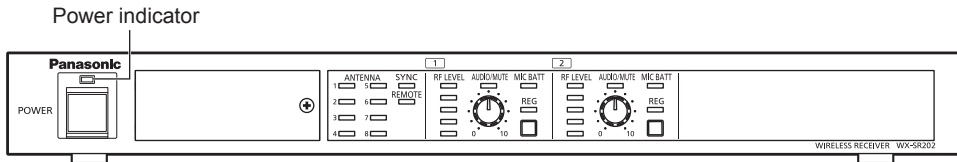Register indicator

* This illustration shows the WX-SR202P.

- If the status indicator on the microphone blinks red, the microphone is not paired to a wireless receiver / extension receiver. Perform the steps described in "Pairing" (page 24).
- The pairing confirmation can also be performed from the wireless receiver / extension receiver.
- The microphone audio will be kept on transmitting during pairing confirmation.
- Also refer to the wireless receiver / extension receiver manual.

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Using the microphone
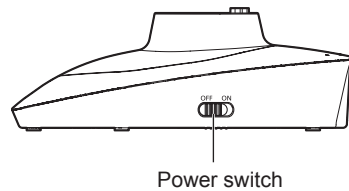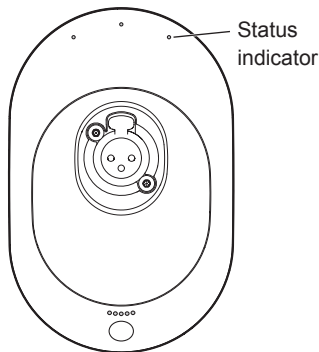
1 **Make sure that the receiver is turned ON**

Make sure that the [POWER] indicator on the wireless receiver / extension receiver lights green.

Power indicator

* This illustration shows the WX-SR202P.

2 **Slide the power switch to the [ON] position to turn the microphone ON.**

The status indicator on the microphone lights up.
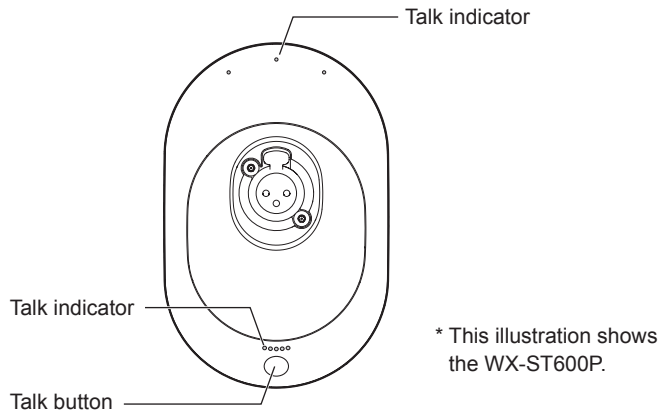

Status indicator

Power switch

* This illustration shows the WX-ST600P.

memo
- If the status indicator on the microphone blinks red, the microphone is not paired to a wireless receiver / extension receiver. Perform the steps described in "Pairing" (page 24).

3 Press the talk button to enable talking on the product.

The talk indicators on the product light green and the audio collected by the microphone unit is amplified.

Talk indicator

Talk indicator

Talk button

* This illustration shows the WX-ST600P.

● After use, turn OFF the microphone.
Slide the power switch to the [OFF] position to turn the microphone OFF. The status indicator goes off.

**●Important**

● Do not place the microphone near the speakers. Doing so may cause howling and other loud noises which may cause injuries to the ears.

memo

● If the microphone moves out of the antenna range, the status indicator blinks orange and the microphone stops audio transmission. Move the microphone back into the antenna range to resume transmission. Refer to the wireless receiver / extension receiver manual for specifics on the wireless transmission range.
● Keep a distance of at least 50 cm (19-5/8 inch) between this microphone and other wireless microphones. Placing multiple microphones within 50 cm (19-5/8 inch) of each other may cause transmission lag, audio dropouts, and noise.
● Refer to the input level meter (page 16), etc., and talk at an appropriate distance from the microphone.

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Connecting an external device

Connect an external device (eg: music player) to the external input connector of the microphone to input the audio output from the device to the receiver.

1, 4
Power switch

External input connector

2

Music player, etc. (locally procured)

Ø3.5 mm stereo mini plug
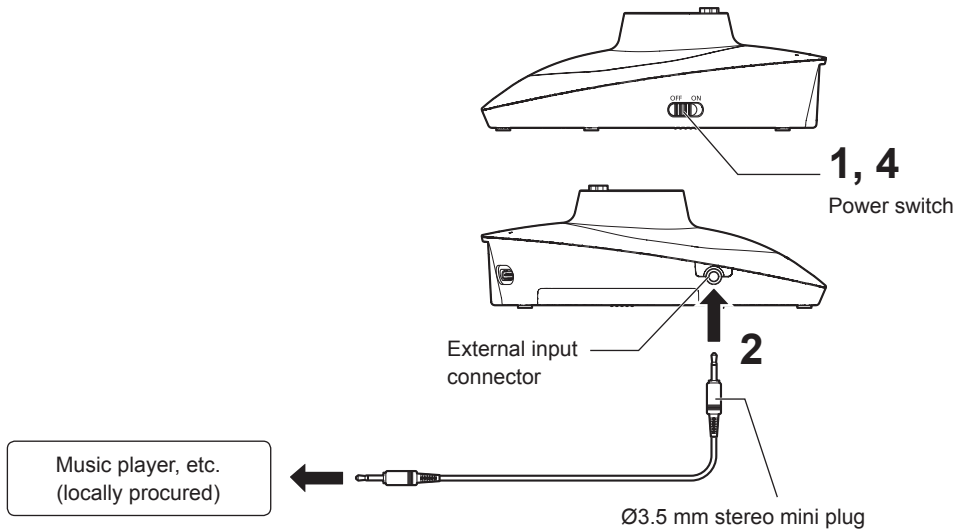
* This illustration shows the WX-ST600P.

1 **Turn OFF the microphone and the external device**

2 **Connect the external device**

Use a Ø3.5 mm stereo mini plug to connect the audio output from the external device (eg: music player) to the external input connector.

3 **Turn ON the external device (eg: music player)**

4 **Turn ON the microphone**

memo
- When a Ø3.5 mm stereo mini plug is connected to the external input connector, this audio source is given priority and the audio from the microphone unit stops transmission.
- If the external device outputs stereo audio, the L/R channels will be mixed.
- Also refer to the manual of the external device you are connecting to the microphone.
- Use different power outlets for the external device and this product. Using the same outlet may result in noise.

Replacing the batteries

Carefully read the "Precautions" section and follow all of its instructions.
Turn the microphone OFF before replacing the batteries.
In the following cases, the dry-cell batteries are depleted or remaining capacity of the rechargeable batteries is insufficient. Replace the dry-cell batteries with new ones or recharge the rechargeable batteries.
- The status indicator lights red
- The status indicator does not light up

memo	● Do not touch the battery poles with your hands. Doing so may cause connection problems or noise. If the battery poles become dirty, clean them with a dry, soft cloth.
	● Even when the power is turned OFF, batteries left inside the product will slowly be drained. Remove the batteries when you are not using the microphone for an extended period of time, as failing to do so may cause battery leaks.
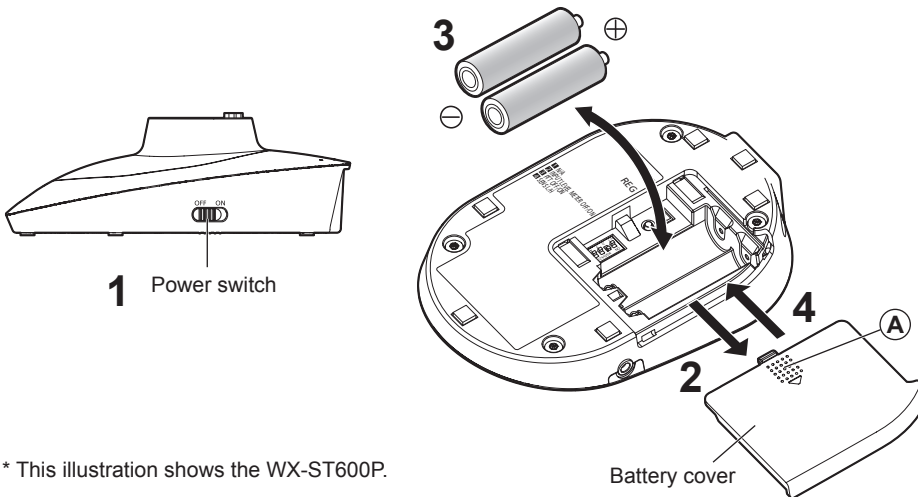
1 Power switch

* This illustration shows the WX-ST600P.

Battery cover

1 Confirm that the power switch is set to "OFF".

2 Remove the battery cover

Press on the portion labeled as Ⓐ on the bottom of the battery cover and slide the cover in the indicated direction to remove it.

Replacing the batteries

3 Replace the batteries

When removing batteries, take them out from the positive ⊕ pole.
Check the polarity of the batteries (positive ⊕ and negative ⊖), and insert either two rechargeable Ni-MH AA-type batteries or two AA-type alkaline dry-cell batteries in the battery slot according to the polarity indication (⊕, ⊖).

4 Place the battery cover back on

Slide the battery cover in the indicated direction to place it back on.

5 Check the status indicator

Slide the power switch to the [ON] position to turn the microphone ON and check that the status indicator lights either green or orange.

---

memo
- The charging time for Ni-MH batteries when using the dedicated charger (WX-SZ600P) depends on the type of rechargeable batteries and the usage conditions, but at longest it will be around ten hours.
- Some batteries may not perform well with this product. If possible, use one of the recommended batteries. The recommended batteries are as follows.
  Rechargeable battery: BK-3MCCA Panasonic Ni-MH AA-size battery
  Dry-cell batteries: LR6PA Panasonic alkaline AA-size battery
                                   LR6XE Panasonic alkaline AA-size battery

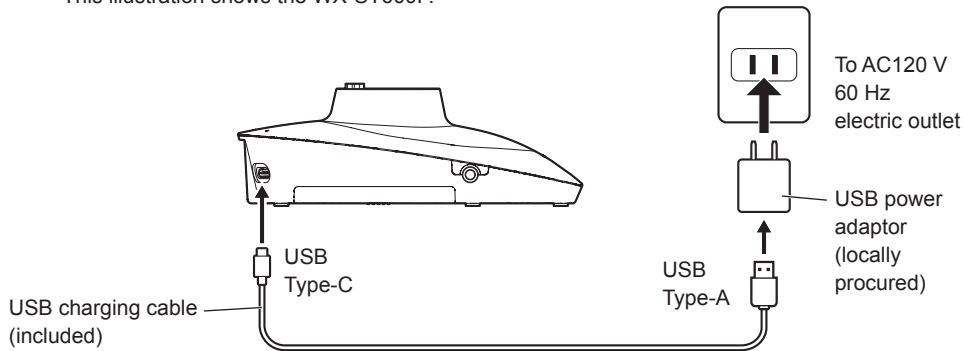---

34

Recharging the batteries

■ Recharging with a charger

Refer to the operating instructions for WX-SZ600P.

■ Recharging with a USB power adaptor

Carefully read the "Precautions" section and follow all of its instructions.

* This illustration shows the WX-ST600P.

To AC120 V 60 Hz electric outlet

USB power adaptor (locally procured)

USB Type-C

USB Type-A

USB charging cable (included)

1 **Make sure rechargeable batteries have been inserted in the microphone.**

Rechargeable batteries

2 **Make sure that the USB power adaptor is NOT connected to the AC120 V outlet.**

3 **Connect the USB charging cable to the USB power adaptor, then connect the USB Type-C plug of that cable to this product.**

4 **Connect the USB power adaptor to the AC120 V outlet.**

5 **Make sure that the charge indicator (USB) lights red.**
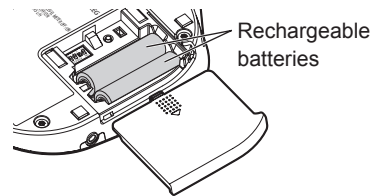
Recharging the batteries

Important
- Use only the dedicated charger (WX-SZ600P) when charging with a charger.
- The [CHARGE] indicator on the charger blinks red if you try to recharge while there is an obstruction between the product and the charger, and then the indicator lights red. Failing to remove the obstruction may cause overheating. Remove any foreign matter which may be causing the obstruction.
- Set the power switch on the microphone to OFF while charging. Even when you insert the microphone into the charger with the power switch in ON position, the microphone is automatically turned OFF and the batteries will be charged. However, in such event, you still need to move the power switch to the OFF position. (This is because the battery power will be slightly consumed after charging when the switch is in ON position.)
- Hold the charger with your hand when removing a microphone from it.

memo
- If, once charging is complete, the batteries in the microphone spontaneously drain, charging will not start again even if the microphone is still inserted into the charger.
- If the charge indicator does not light up despite the microphone being inserted into the charger, confirm that all the links between charger, AC adapter, power cable, and electric plug are securely connected.
- The charging time depends on the battery type and the specific use situation, but at longest it will be around ten hours.
- Charging the batteries outside of their operating temperature range may substantially increase the amount of time required for charging. Even if the batteries are within their operating temperature range, charging while the microphone is very hot or cold may increase the amount of time required for charging.
- Both the microphone and the charger normally become hot during charging. This is not due to a malfunction.
- Do not try to charge already full batteries. Doing so will reduce the lifespan of the batteries.
- Some kinds of batteries may not be fully recharged in just one cycle and the runtime becomes small. This happens to the batteries which are being used for the first time, batteries which have not been used for a long (more than three months) time, and batteries which have been recharged and depleted numerous times. This phenomenon is characteristic of the rechargeable batteries. The battery runtime may be recovered to the normal level by completely charging and then depleting (by using the microphone) the batteries two or three times.

- The charger automatically recognizes the dry-cell batteries inside the microphone to cancel charging, and then the charge indicator will blink. However, depending on the type of dry-cell battery, this automatic recognition may take some time and the charge indicator stay lit until the recognition completes.
- Sometimes, when trying to recharge almost-full batteries at very low temperatures, these may be mistakenly recognized as dry-cell batteries, and the charge indicator may start blinking.
- Charging of this product with WX-SZ600P is inductive charging. Because of inductive charging regulations, the status indicator on the microphone may go off multiple times just before charging is completed, but this does not indicate a malfunction.
- Sometimes, when trying to charge almost-empty batteries, these may be mistakenly recognized as dry-cell batteries, stopping the charging and making the charge indicator start blinking. If this happens, remove the microphone from the charger and re-insert it multiple times until the batteries are properly recognized. If the batteries cannot be recharged despite multiple attempts, it means that they are completely exhausted and need to be replaced.

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Troubleshooting

Please check the common problems listed in this table before seeking professional help.
If none of the tips provided here help, if you are dealing with a problem not listed here, or if you are otherwise uncertain, contact your retailer for more information.

Phenomenon	Cause/measure	Reference page
The product does not turn ON	● Have you inserted the dry-cell batteries or the rechargeable batteries? ➡ Make sure that the batteries are inserted.	19
	● Is the microphone currently inserted into the charger? ➡ Even if the charge indicator does not light up, the microphone cannot be turned ON as long as it is inserted into the charger. Take the microphone out of the charger and then turn it ON.	35
	● Are the batteries depleted? ➡ If they are, replace them (if they are the dry-cell batteries) or charge them (if they are the rechargeable batteries).	33, 35
	● Are the batteries inserted according to the correct polarities? (Positive $\oplus$, negative $\ominus$) ➡ Make sure that the batteries are inserted correctly.	19, 33
The status indicator blinks red and I cannot use the microphone	● The microphone is not paired. Alternatively, there could have been an error during the pairing process due to a bad connection. ➡ Place the microphone as close as possible to the antenna and try pairing it again.	24
The status indicator blinks orange and I cannot use the microphone	● The microphone may be outside of the antenna range, and it cannot establish a connection. ➡ Move the microphone inside the antenna range.	15
	● Is the receiver turned ON? ➡ Make sure that the receiver is powered.	30

Phenomenon	Cause/measure	Reference page
Audio from the microphone unit is not transmitted	● Is an external device connected to the external input connector? ➡ When an external device is connected, even if it is turned OFF, it will take precedence over the microphone unit, which will stop audio transmission from the microphone unit. Disconnect the plug from the external input connector.	32
	● Is the volume on the receiver, connected amplifier, etc. high enough? ➡ Adjust the volume with the volume adjustment knob.	—
	● Is the status of the product "Not talking"? (Is the talk indicator red?) ➡ Press the talk button.	15, 16
I cannot talk even after pressing the talk button (The talk indicators remain off)	● Has the paired microphone been deleted by the operations support software? ➡ Pair the microphone again.	25
	● Is the PTT setting switch set to "PTT ON"? ➡ When set to "PTT ON", you need to keep pressing the talk button while talking to output.	16, 17
I cannot charge the microphone (The charge indicator stays off)	● Is the microphone properly inserted into the charger? ➡ Make sure that the microphone is properly inserted into the charger.	35
I cannot charge the microphone (The charge indicator only stays on for a few minutes)	● Are the batteries already charged? ➡ The batteries may already be fully charged. Take the microphone out of the charger and use it as normal.	35

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Troubleshooting

Phenomenon	Cause/measure	Reference page
I cannot charge the microphone (The charge indicator blinks)	● The batteries inside the microphone may be dry-cell batteries or deteriorated rechargeable batteries. ➡ Make sure that the proper type of batteries are inserted.	35
	● Almost empty rechargeable batteries may be incorrectly detected as dry-cell batteries. ➡ Remove the microphone from the charger and insert it back in multiple times until the batteries are properly recognized.	37
	● Are the batteries extremely hot? ➡ Check the battery temperature.	35
	● Have you inserted the rechargeable batteries? ➡ Make sure that you have inserted the rechargeable batteries.	19
	● Are the batteries inserted according to the correct polarities? (Positive $\oplus$, negative $\ominus$) ➡ Make sure that the batteries are inserted correctly.	19, 33
The battery runtime is short despite being fully charged	● Are the batteries you are using deteriorated, for example because of extensive use? ➡ Deteriorated battery may hold less charge, may be unable to power ON the microphone, and cause other problems. Replace them with new rechargeable batteries.	33

Specifications

WX-ST600P

Wireless	Used frequencies	1921.536 MHz to 1928.448 MHz
	Antenna	Internal antenna
Microphone input connector		Phantom power 12 V DC XLR 3 pin (female, XLR-3-11C equivalent) Pin 1: Ground Pin 2: Hot Pin 3: Cold
Frequency response		100 Hz to 15 kHz
External input connector		-14 dBV line-in Ø3.5 mm stereo mini jack (Monaural mix)
Connector for charge (USB Type-C)		USB Type-C (Battery charging and power supply to WX-ST600P) * WX-ST600P can be used when powered by USB Type-C Use a USB power adapter of DC 5 V 500 mA or more for power supply

Battery type		Rechargeable battery:
		  Ni-MH AA-size battery (sold separately) × 2
		Dry-cell battery:
		  alkaline AA-size battery (sold separately) × 2

Battery operating time ⎛Assuming continuous use at⎞ ⎜a 25 °C (77 °F) temperature⎟ ⎝with Panasonic batteries⎠		Approx. 13 hours (Ni-MH AA-size battery BK-3MCCA)
Front indicator		Talk indicator Input level meter (4 steps) Charge indicator (when using the charger)
Rear indicator		Charge indicator (when charging via USB) Talk indicator Status indicator
Operating temperature range		5 °C to 35 °C (41 °F to 95 °F)
Operating humidity range		10 % to 90 % (no condensation)
Dimensions		88 mm (W) × 46 mm (H) × 135 mm (D) (3-15/32 inches x 1-13/16 inches x 5-5/16 inches)
Mass		Approx. 345 g (0.77 lb) (including LR6PA alkaline battery)
Finish		Black finish

Specifications

WX-ST700P

Wireless	Used frequencies	1921.536 MHz to 1928.448 MHz
	Antenna	Internal antenna
Microphone type		Unidirectional electret condenser microphone
Sound collection range		120 degree range symmetrically from the front
Max SPL		130 dB SPL (Sensitivity setting [SENS L])
Frequency response		100 Hz to 15 kHz
External input connector		-14 dBV line-in Ø3.5 mm stereo mini jack (Monaural mix)
Connector for charge (USB Type-C)		USB Type-C (Battery charging and power supply to WX-ST700P) * WX-ST700P can be used when powered by USB Type-C Use a USB power adapter of DC 5 V 500 mA or more for power supply

Battery type		Rechargeable battery:
		   Ni-MH AA-size battery (sold separately) × 2
		 Dry-cell battery:
		   alkaline AA-size battery (sold separately) × 2

Battery operating time ⌈Assuming continuous use at a 25 °C (77 °F) temperature with Panasonic batteries⌋		Approx. 13 hours (Ni-MH AA-size battery BK-3MCCA)
Front indicator		Talk indicator Input level meter (4 steps) Charge indicator (when using the charger)
Rear indicator		Charge indicator (when charging via USB) Talk indicator Status indicator
Operating temperature range		5 °C to 35 °C (41 °F to 95 °F)
Operating humidity range		10 % to 90 % (no condensation)
Dimensions		88 mm (W) × 35 mm (H) × 135 mm (D) (3-15/32 inches x 1-3/8 inches x 5-5/16 inches)
Mass		Approx. 260 g (0.58 lb) (including LR6PA alkaline battery)
Finish		Black finish

Standard accessories

Operating Instructions (this booklet)..1
Warranty Card 1
Microphone identification sticker 1
USB charging cable: About 0.5 m
   (Input: USB Type-A, Output: Type-C)..1

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