

1.9 GHz Wireless Pendant Microphone

# K-STM24

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

# Safety precautions

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 B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For U.S.A. and Canada

This device complies with Part 15 of the FCC Rules and Innovation, Science and Economic Development Canada's licence-exempt RSS(s). 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.

For Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

For Canada

CAN ICES-003(B)/NMB-003(B)

### **Radio Frequency (RF) Exposure Warning**

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. K-STM24 has been tested and found to comply with FCC/ ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules.

### **Notice**

FCC ID can be found on the battery compartment of the units.

### **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 radiated power is less than 5.0 mW.

(Conducted Power is 6.3 mW (8.0 dBm))

### **DANGER:**

**Do not use unspecified batteries.**

**Do not disassemble the battery or dispose of it in fire.**

**Do not allow the + and - terminals of the batteries to come into contact with metallic objects such as necklaces or hairpins.**

**Do not charge, use or store batteries in hot places, such as under direct sunlight, inside closedoff cars during the summer, near open fires, stoves, etc.**

- Danger of explosion or fire if battery is incorrectly replaced or mistreated.
- Short-circuiting may occur across the terminals, causing the battery to heat up, and you may seriously burn yourself if you touch the battery in this state.
- Battery fluid on your skin or clothing could result in skin inflammation or injury. Rinse with clean water and seek medical advice immediately.
- Battery fluid coming in contact with your eyes could result in loss of sight. In this case, do not rub your eyes. Rinse with clean water and seek medical advice immediately.

**WARNING:**

- 1) To prevent fire or electric shock hazard, do not expose this apparatus to rain or moisture.
- 2) 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.

A lithium ion/polymer battery that is recyclable powers the product you have purchased.  
Please call 1-800-8-BATTERY for information on how to recycle this battery.



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. \_\_\_\_\_

# **Precautions**

**Turn off the power supply when inside an aircraft.**

The product might interfere with operational safety of the aircraft.

**Do not attempt to disassemble or short-circuit rechargeable batteries.**

An exploding battery or leaking battery fluid may result in fire, injury and burns.

**Avoid placing the product in unstable conditions.**

Failure to do so may cause injury.

**Stop operation immediately when something is wrong with the product.**

When smoke goes up from the product or the smell of smoke comes from the product, continued use will result in fire. Immediately remove the battery and the battery charger, and contact your dealer.

**Do not swing the product around on its strap.**

The strap might come off, resulting in personal injury or damage to the product.

**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 pour liquid such as water or get it wet.**

It may lead to fire or electric shock. It may lead to overheating and bursts in the batteries. Immediately remove the batteries and contact the retailer.

**Do not use this apparatus near water.**

**Do not attempt to disassemble or remodel the product.**

It may lead to fire or electric shock.

**Do not let foreign substances into the product.**

Water or metals entering the product may lead to fires or electric shocks. Immediately remove the battery and contact the retailer.

**Only use attachments/accessories specified by the manufacturer.**

**Do not touch the battery pack with wet hands.**

## [Precautions for use]

- Operating temperature:  
5 °C - 35 °C {41 °F - 95 °F}  
When calculating the battery life, note that temperatures below 10 °C {50 °F} shorten the battery duration.
- Do not disassemble the product or touch internal parts.
- Exercise care when using the product in high places. If it falls down, it may cause personal injury or suffer damage.
- Do not use or leave the battery in places where it will be exposed to high temperatures, such as in strong direct sunlight, in a sun-heated car, by the fire, or in front of a stove.
- Do not touch the battery poles or contacts inside the battery cover with dirty hands. Otherwise poor contact or noise may result. If dirty, wipe off with a dry soft cloth. The contacts inside the battery cover tend to get dirty. Clean them regularly (about once a month) with ethyl alcohol. Do not use solvents, such as benzine or thinner, or a metal polish. Otherwise the contacts may become deformed or discolored, or the brass plating may come off.
- Do not use a deteriorated or short-circuited battery. A battery in this condition may leak fluid, overheat and cause damage.
- The product is not made to drip-proof specification. Do not use the product with the wet hands in a place where it is directly exposed to water.
- Do not swing the product around on the neck strap. To prevent strangling, the closure of the strap provided for hanging the product around the neck is designed to give way under pressure. If swung around on the neck strap, the closure will open and the product will fly away, resulting in personal injury or damage to the product.
- 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.
- Use the product in a location where it is relatively shielded from noise produced by rotating machinery, transformers or the ignition system or automobiles.
- Do not place the product on top of heatgenerating equipment, such as powered amplifiers, video monitors or measuring instruments, and do not leave it in a closed car in hot summer. When storing the product, do so in a dry place.
- The product is high-precision adjusted; exposing it to strong impact or dropping it on the floor may change its characteristics. Handle the product with due care. Do not expose the product to shock or impact as this will cause the audio output of the receiver to give off noise on impact.

## Product care

- Clean the power source with a dry cloth.
- Do not clean with volatile liquids such as benzine and thinner.
- When using a chemical cloth for cleaning, observe the cautions provided with that product.

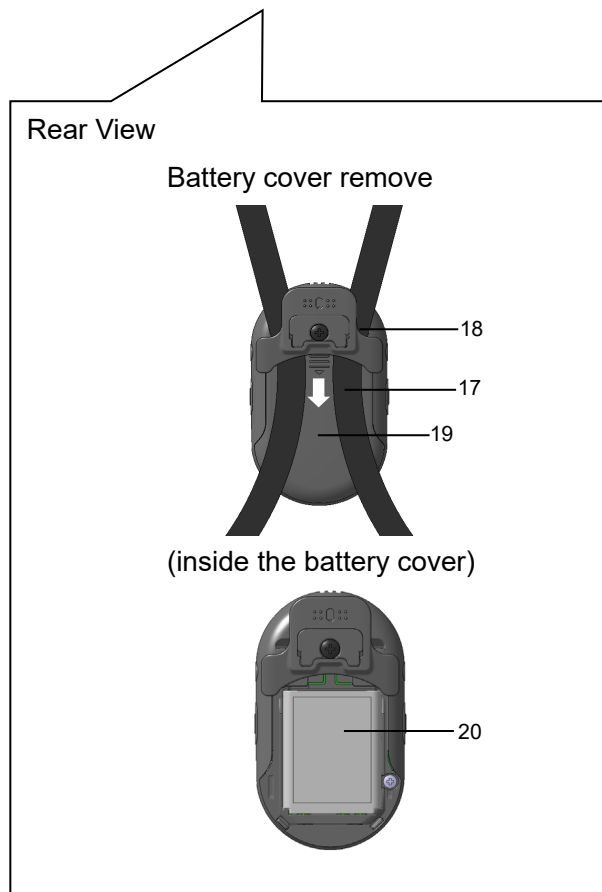
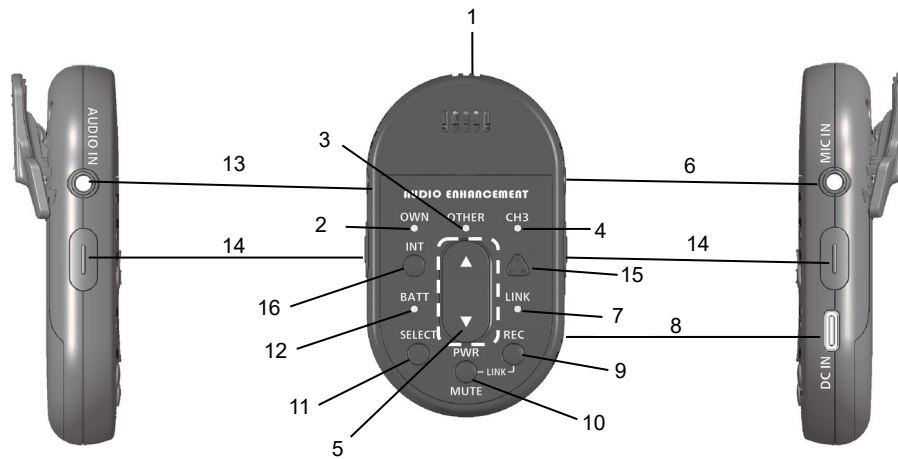
## Useful hints

- Noise prevention  
Turn off the power of this product, and turn down the volume of a powered amplifier, mixer, etc. before replacing, removing, or inserting the battery, as this might produce a large noise from these devices.
- Volume control  
When the volume control from this product goes wrong, move closer to the receiver and then try again to adjust the volume.

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# Major operating controls and their functions





**[1] Microphone opening**

This opening picks up the speaker's voice.

**[2] Microphone selection indicator (green) [OWN]**

Lights when [OWN] (audio from [1], [6], or [13]) is selected for adjusting the volume.

Blinking indicates that the microphone is muted.

**[3] Microphone selection indicator (green) [OTHER]**

[OTHER] microphone refers to other microphone receiving audio at the same receiver.

Lights when the [OTHER] microphone is selected for adjusting the volume.

**[4] CH3 selection indicator (green) [CH3]**

[CH3] refers to external devices connected to the line input terminal of the receiver. Lights when [CH3] is selected for adjusting the volume.

**[5] Volume control buttons [▲/▼]**

Adjust the volume of [OWN], [OTHER] and [CH3]. (Adjustment step range: refer to the manual of the device with the receiver (K-SRB20)). Adjust when any one of the indicators in [2] to [4] is on.

Pressing the [▲] button will increase the volume.

Pressing the [▼] button will decrease the volume.

Keeping the buttons pressed will continuous increase/decrease the volume.

**[6] Microphone input terminal [MIC IN] (side)**

Transmits the audio from a connected external microphone to the receiver.

When an external microphone is connected to this terminal, the audio from the [1]

Microphone opening is muted.

**[7] Link indicator [LINK]**

Indicates the status of the microphone as follows:

**Green light:** Talking

**Red light:** E2 state

**Yellow light:** E4 state

**Light Off:** Power is turned "OFF".

**Blinking (green):** Connected to a receiver\* or audio is interrupted.

\* When trying to connect a fourth microphone while three microphones are connected to the receiver.

**Blinking (yellow):** Out of range or pairing with a receiver.

**Blinking (red):** Pairing error with the receiver (Refer to Troubleshooting)

**[8] DC input terminal [DC IN] (side)**

Used to connect the charger for charging the battery installed in the microphone.

#### [9] **[REC] button**

Pressing this button will activate E1 output. (A signal is sent from E1 contact of a receiver.)

#### [10] **[PWR/MUTE] button**

Pressing this button will turn the microphone power [ON/OFF]. To turn "ON", press it for 1 second or more, to turn "OFF", press it for 2 seconds or more.

While the power is on, pressing this button short once will mute the microphone, and pressing this button again will cancel muting.

#### [11] **[SELECT] button**

Selects the target for volume control.

Each time the button is pressed, the selection indicator changes as follows:

[OWN] -> [OTHER] -> [CH3] -> [OWN].

#### [12] **Battery indicator [BATT]**

Indicates the status of the microphone power supply and the battery condition as follows:

**Green light:** Power is turned "ON".

**Yellow light:** Power is turned "ON", but battery is nearing its end.

**Red light:** Battery is depleted. Charge the battery.

**Light off:** Power is turned "OFF".

When charging, the charging status is displayed as follows.

**Red light:** Charging completed.

**Blinking (red):** (blinks periodically by lighting up for 1 second and turning off for 2 seconds) Charging

\* When fully discharged, the LED lights red for the first minute.

**Blinking (red):** (blinks periodically by lighting up for 0.5 seconds and turning off for 0.5 seconds) Charge Error (Refer to Troubleshooting)

#### [13] **External input terminal [AUDIO IN] (side)**

Transmits the audio from a connected external device to the receiver.

When an external device is connected to this terminal, audio from the [1] Microphone opening and [6] Microphone input terminal is muted.

#### [14] **E2 Button (side)**

Pressing simultaneously both side E2 button it for 2 seconds more will be an activate E2 output.

A signal is sent from E2 contact of a receiver.

(An alert can also be sent from the state of power supply off.)

E2 release PWR/MUTE after pushing it and doing power off for 2 seconds or more, please turn on a power on once again.

However, E2 mode on the device with the receiver (K-SRB20) is not disabled.

To disable, refer to the manual of the device with the receiver (K-SRB20).

During an E2 state, all button operation except power OFF (press its [PWR/MUTE] button

for 2 second or more) is not possible.

When sending an alert out of range, an alert is sent in the time when reception connected with a possible receiver.

(Refer to the manual of the device with the receiver (K-SRB20) : Alert message and sound at E2.)

#### [15] **Alert button**

Pressing the Alert button for 2 seconds or more will put the microphone into E4 mode (minor alert mode).

(It will go into E4 mode even if you press the button while the power is off.)

To disable E4 mode, press PWR/MUTE for 2 seconds or more to turn off the power, and then turn on the power again.

However, E4 mode on the device with the receiver (K-SRB20) is not disabled.

To disable, refer to the manual of the device with the receiver (K-SRB20).

In E4 mode, you cannot perform button operations other than turning off the power (pressing the [PWR/MUTE] button for 2 seconds or more) and simultaneously pressing the E2 button.

If you press the Alert button while out of range, a minor alert will be sent when the microphone connects to a receiver that can receive the signal.

#### [16] **INT button**

Press this button while talking to request use of the intercom function. Refer to the manual of the device with the receiver (K-SRB20).

#### [17] **Neck strap**

For hanging the microphone around the neck.

#### [18] **Clip (rear)**

For adjusting the neck strap to an appropriate length. The clip can be attached to the speaker's clothes.

#### [19] **Battery cover (rear)**

The battery cover can be removed by pulling in the direction of the arrow.

#### [20] **Battery slot (inside the battery cover)**

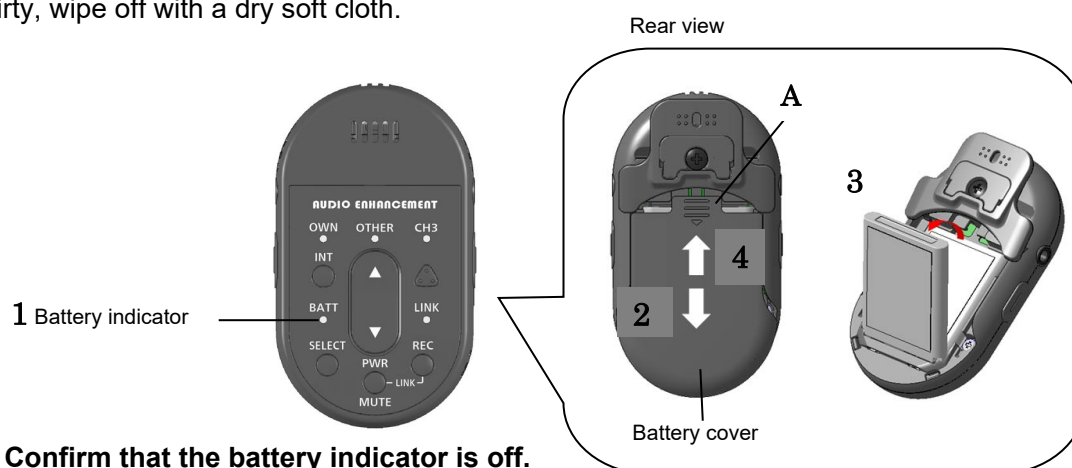
Install one lithium-ion rechargeable battery, paying attention to the charging terminal inside the battery cover.

## Inserting a battery

- To insert a battery, turn off the power of the microphone, and make sure that the microphone is not connected to the charger.
- To replace a battery, refer to “Replacing a battery”.

### **Note:**

- Do not touch the battery poles with hands. Otherwise poor contact or noise may result. If dirty, wipe off with a dry soft cloth.



**1 Confirm that the battery indicator is off.**

### **2 Remove the battery cover.**

Pull the battery cover in the arrow direction while pressing the A position with both right and left thumb to remove cover.

### **3 Install a battery.**

Insert the battery, making sure that their orientation is correct.

About batteries that you can use with this unit

The XD-5001 (Lithium Ion Battery) is the only battery that can be used in this microphone.

### **4 Attach the battery cover.**

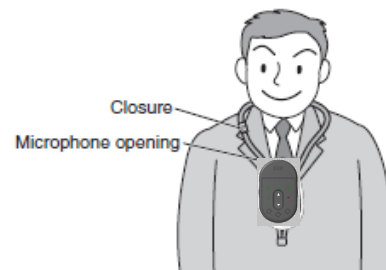
Push up the battery cover to the direction of the arrow in the figure, and fit it to its original position.

# Fitting the microphone

When fitting, removing, or adjusting the position of the microphone, turn off the power of the microphone, and make sure that the microphone is not connected to the charger.

## **1 Hang the microphone around the neck of the speaker.**

Widen the looped part of the strap above the microphone and hang it around the speaker's neck, with the front of the microphone facing outward as shown in the illustration at right.

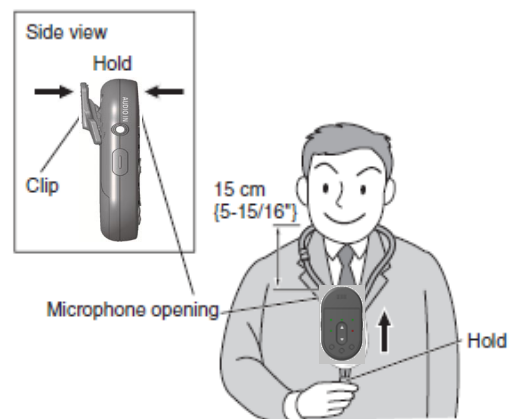


## **2 Adjust the position of the microphone.**

While holding the lower end of the neck strap with one hand and opening the clip at the rear of the microphone with the other, pull up the microphone to the level of the speaker's chest.

Adjust so that the distance between the speaker's mouth and the microphone opening is approx. 15 cm {5-15/16"} as shown in the illustration at right.

Let go of the clip in the desired position.

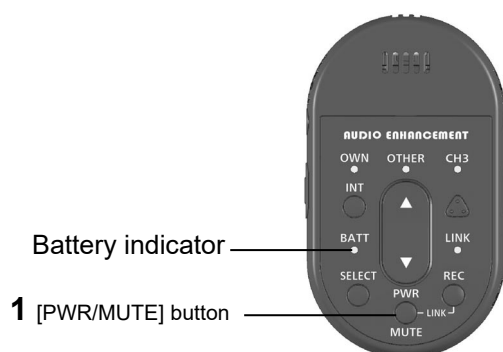


If bothered by the sound of the microphone rubbing against your clothes, fix the clip at the rear of the microphone to your shirt pocket or placket.

### **Note:**

- The neck strap is provided with a safety closure to prevent strangling. It is not meant to fit the microphone.
- To remove, reverse the above procedure.

## Using the microphone



**1 To turn on the microphone, press its [PWR/MUTE] button for 1 second or more.**

The battery indicator of the microphone lights. To turn off the power, press the button for 2 seconds or more. The battery indicator of the microphone turns off.

### **Important:**

- While using the microphone, do not take the microphone close to the speaker. Loud noises such as feedback may damage your hearing.

### **Note:**

If the LINK indicator flashes red or continues flashing yellow when you turn on the microphone, pair the microphone and receiver with the procedure below.

- Remove the battery cover and remove the battery.
- Insert the battery and attach the battery cover.
- Turn on the receiver's [LINK] button. (The link indicator of the receiver blinks.)
- With the microphone power OFF, press the microphone's [PWR/MUTE] button and [REC] button for at least 1 second.

The LINK indicator on the microphone will flash yellow and the microphone will pair with the receiver.

### **Note:**

- After "out of range" \* is maintained for approx. 5 minutes, the microphone is turned off automatically.

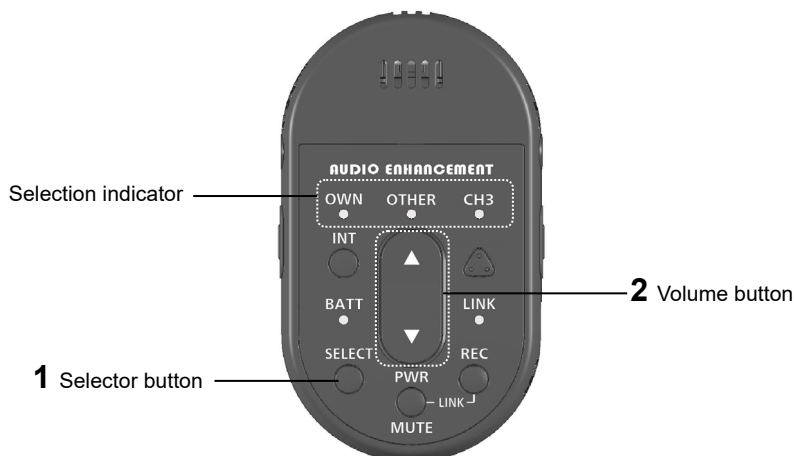
The following needs operation to use it again:

Press its [PWR/MUTE] button for 1 second or more.

- When using 3 microphones, the LINK button on the device with the receiver (K-SRB20) is disabled.
  - Also refer to the manual of the device with the receiver (K-SRB20).
- (\*: Add out of range = radio waves do not reach (NOT equal sound stops area))

# Adjusting the volume

You can use the microphone to adjust the volume of the audio signal output from the device with the receiver (K-SRB20).



## 1 Press the selector button

When the selector button is pressed for the first time after turning on the power, the [OWN] selection indicator lights, and after that the selection indicator for the preceding selection ([OWN], [OTHER], [CH3]) will light. Then press the selector button repeatedly to select the desired selection. The selection indicators light in the following order:

[OWN] -> [OTHER] -> [CH3] -> [OWN].

\* The selection indicator lights for 5 seconds. If no operation takes place within this period, the indicator turns off automatically.

## 2 Press the volume button [▲/▼]

While the selection indicator for the selection made in 1 is lit, either press the volume button or keep it pressed.

Pressing the volume button [▲] will increase the volume, pressing [▼] will decrease it. For the adjustment range, refer to the manual of the device with the receiver (K-SRB20). The selection indicator goes off 5 seconds after the volume button was pressed for the last time.

- When [OWN] is lit

Adjust the audio volume of this microphone (input from the microphone opening, external input and microphone input).

\* Adjustment is not possible while muted ([OWN] selection indicator is blinking)

- When [OTHER] is lit

Adjust the volume of another microphone

- When [CH3] is lit

Adjust the volume of the external device (CD player or MD player) that is connected to the line input connector of the receiver that receives the audio from the microphone.

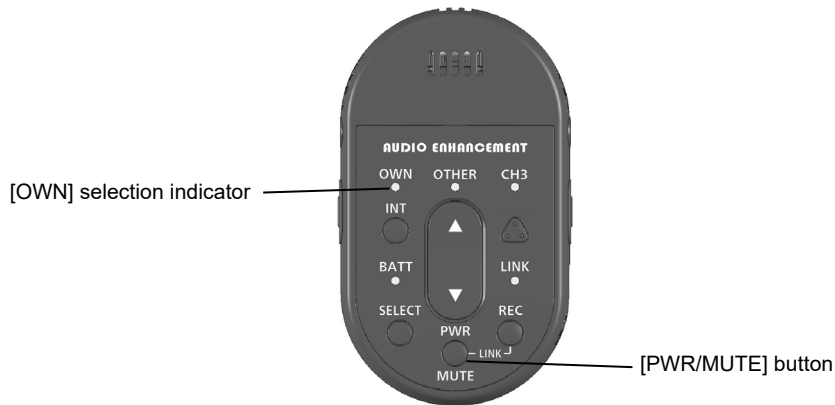
**Note:**

- While the microphone is muted, volume control of the [OWN] microphone is disabled but enabled for [OTHER] and [CH3].



# Muting

If you want to temporarily stop the audio transmitted from this microphone to the receiver for one reason or another, without turning off the microphone, you can temporarily mute the audio signals.



## **1 Press the [PWR/MUTE] button.**

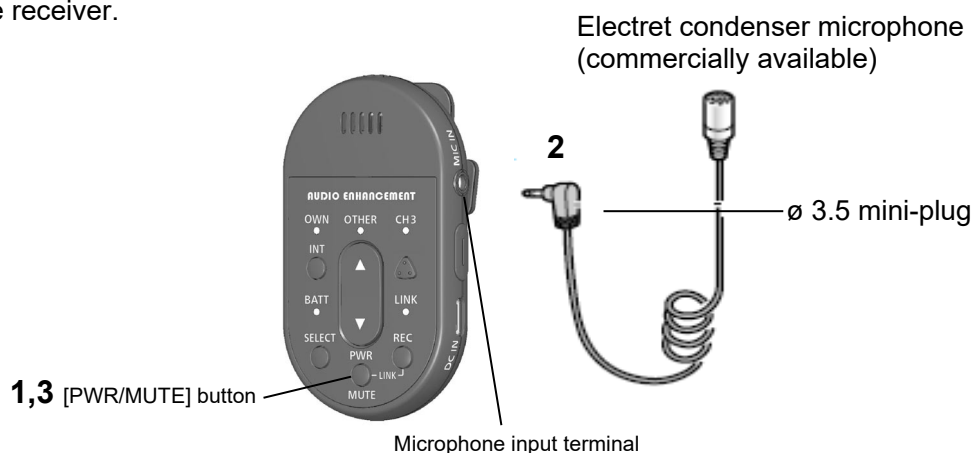
When pressing the [PWR/MUTE] button once, the [OWN] selection indicator starts blinking and the audio transmitted from the microphone to the receiver is muted. While muting is activated, audio input of the [OWN] microphone (audio input from microphone opening, external input and microphone input terminal) is muted. To cancel muting, press the [PWR/MUTE] button again.

### **Note:**

- After muting is maintained for approx. 5 minutes, the microphone is turned off automatically.  
The following needs operation to use it again:  
Press its [PWR/MUTE] button for 1 second or more.
- In the muted state, volume control of the [OWN] microphone is disabled, but [OTHER] and [CH3] are enabled.
- During MUTE, if E2 mode is activated by pressing the E2 button or if E4 mode is activated by pressing the ALERT button, MUTE will be forcibly canceled.
- When want to do MUTE automatically as soon as possible in the place where a teacher left the classroom, do MUTE automatically in voice call areas; can set it.  
(Refer to the manual of the device with the receiver (K-SRB20). "Serial communication command "SAA"")

## Connecting an external microphone

This function allows you to use an external microphone instead of the microphone opening of this microphone. Connect an external microphone (for example, an electret condenser microphone) to the microphone input terminal of the microphone, and transmit the audio to the receiver.



**1 Turn off the power of the microphone.**

**2 Using the ø3.5 mini-plug, connect the external microphone (for example, a commercially available electret condenser microphone) to the microphone input terminal.**

**3 Turn on the power of the microphone.**

### **Important:**

- Do not connect external devices (CD players or MD players) to the microphone input terminal.

Loud noises may damage your hearing. When an external device is mistakenly connected, turn off the power of the microphone and the external device, disconnect the plug, and connect the device to external input terminal.

### **Note:**

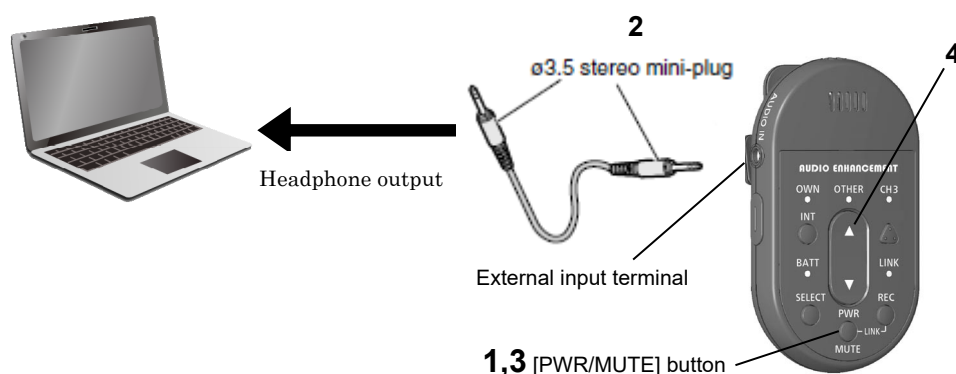
- Once the ø3.5 mini-plug is plugged into the microphone input terminal, priority is given to this audio transmission from an external microphone and the audio from the microphone opening will not be transmitted.
- The microphone input terminal of the microphone is a monaural terminal. If a stereo external microphone is plugged into the microphone input terminal, either the right or the

left channel audio will be transmitted.

- When fine-tuning the volume of external microphone using this microphone, select [OWN] by pressing the selector button. For fine tuning, refer to “Adjusting the volume”.
- Use a unidirectional microphone. The use of an omnidirectional microphone may cause feedback.
- In addition to this manual, refer to the operating instructions of the external microphone to be connected.

## Connecting an external device

You can connect an external device (for example, MP3 player or computer) to the external input terminal and transmit the audio to the receiver.



**1 Turn off the power of the microphone.**

**2 Connect an external device.**

Use a  $\varnothing 3.5$  stereo mini-plug to connect the external device (for example, the headphone output of a MP3 player, or computer) to the external input terminal.

**3 Turn on the power of the microphone.**

**4 Adjust the volume.**

Adjust the audio volume of the external device.

### **Note:**

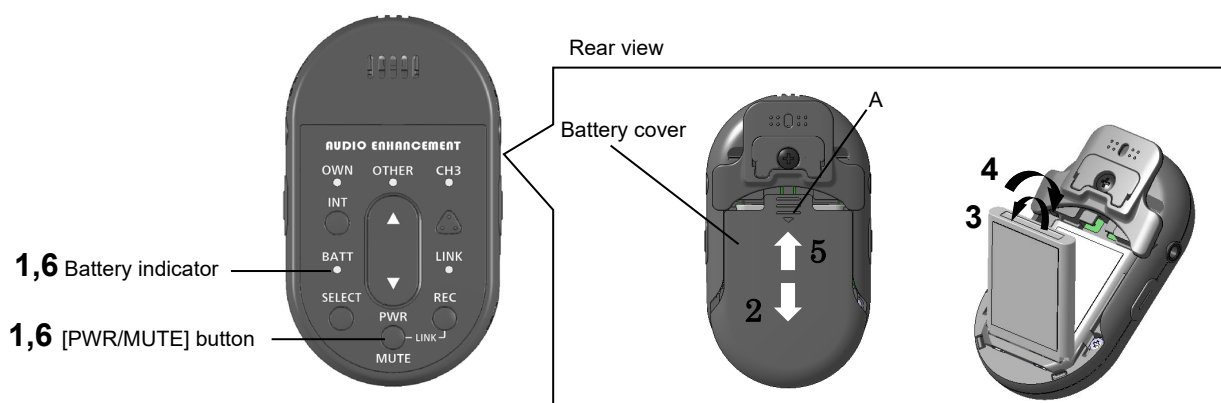
- Once a  $\varnothing 3.5$  stereo mini-plug is plugged into the external input terminal, priority is given to this input and the audio from the microphone opening and the microphone input terminal will not be transmitted.
- If an external microphone is mistakenly connected to the external input terminal, the audio of the external microphone will not be transmitted. Turn off the power of the microphone, disconnect the plug, and connect the external microphone to microphone input terminal.
- If the audio of the external device is stereo, stereo signals will be mixed.
- When fine-tuning the volume of external device using this microphone, select [OWN] by pressing the selector button. For fine tuning, refer to "Adjusting the volume".
- In addition to this manual, refer to the operating instructions of the device to be connected.

## Replacing a battery

- Carefully read the “Precautions” and proceed accordingly.
- To replace the battery, turn off the power of the microphone, and make sure that the microphone is not connected to the charger.

### **Note:**

- Do not touch the battery poles with hands. Otherwise poor contact or noise may result. If dirty, wipe off with a dry soft cloth.
- Battery power is slightly consumed even when the power of this product is OFF. If the battery is left unused, that may result in liquid leakage. To prevent this, remove the battery from the product when unused for a long time.



**1 Turn off the power by pressing the [PWR/MUTE] button for 2 seconds or more.**  
Confirm that the battery indicator is off.

**2 Remove the battery cover.**

Pull the battery cover in the arrow direction while pressing the A portion with both right and left thumbs to remove the cover.

**3 Remove a battery.**

Please take out an inserted battery

**4 Install a new battery.**

Insert the battery, making sure that their orientation is correct.

About batteries that you can use with this unit

The XD-5001 (Lithium Ion Battery) is the only battery that can be used in this microphone.

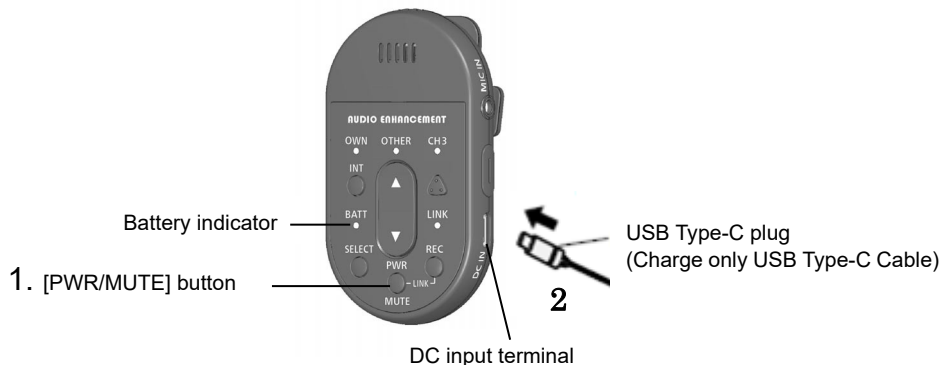
**5 Attach the battery cover.**

Push up the battery cover to the direction of the arrow in the figure, and fit it to its original position.

**6 Confirm that the battery indicator lights.**

Press the [PWR/MUTE] button for 1 second or more, turn on the power of the microphone, and confirm that the battery indicator lights green or yellow.

# Charging a battery



## 1 Turn off microphone.

## 2 Connect the USB Type-C plug of the charger to the DC input terminal of the microphone.

After connecting the microphone to the charger, the battery indicator indicates the charging status as follows:

**Blinking (red):** (blinks periodically by lighting up for 1 second and turning off for 2 seconds) Charging

\* In the case of a complete discharge state, the first about 1minute battery indicator lights RED.

**Blinking (red):** (blinks periodically by lighting up for 0.5 seconds and turning off for 0.5 seconds) Charge Error. (Refer to Troubleshooting)

**Light off:** The charging connector is not connected or the battery is not installed.

### Important:

- If the microphone is connected to the charger with the power turned on, the microphone will be powered off and-charging will start.  
Only the ALERT button and E2 button work while the charging connector is connected.

### Note:

- If the charger remains connected after charging is completed, it will restart charging to make up for any amount lost due to self-discharge.
- If the microphone is turned off and the charger is connected, but the charge indicator does not light, check to see that the USB Type-C plug of the charger is properly plugged into the DC input terminal, the power cable of the charger into the charger.
- Charging takes up to 4 hours(5V/500mA), but the charging time varies depending on status of use.
- Charging at temperatures outside the normal range may result in significantly longer charging times or may not reach full charge.  
Note, however, that charging times may become longer even within the operating temperature range, if the temperature of the microphone is higher or lower than the normal condition.
- The charger and the microphone may get hot slightly during charging.
- Do not charge a rechargeable battery that has just been fully charged. Otherwise you will shorten the life of the battery.

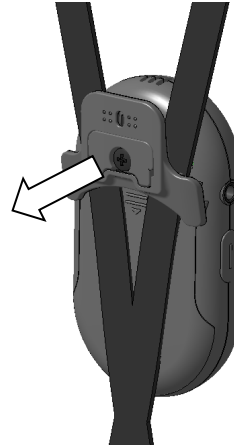
- Also read the operating instructions of the charger.
- Do not recommend charging a battery from PC.

## **Replacing the neck strap**

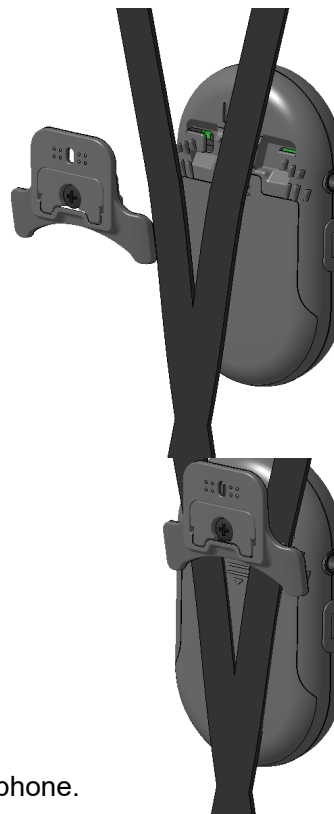
- When replacing the neck strap, turn off the power of the microphone, and make sure that the microphone is not connected to the charger.

**Remove the neck strap from the microphone.**

**1 The screw of a pendant microphone is removed with a driver.**



**2 Remove the other side of the neck strap.**



**When attaching a neck strap to the microphone, hook each side of the strap to each claw, and reverse the above procedure.**

After the neck strap is attached to the microphone, make sure both sides of neck strap are hooked to the claws.

### **Important:**

- Use only the neck strap that is intended for this microphone. (This neck strap is provided with a safety closure to prevent strangling.) Otherwise, that may result in accidental injury.



# Trouble shooting

**Before asking for repairs, check the symptoms with the following table.**

Contact a dealer if the suggested remedies do not correct the problem or if the problem is not described below.

Symptom	Cause/solution
The power cannot be turned on.	<ul style="list-style-type: none"> <li>• Does rechargeable battery into the microphone (with no battery)?</li> </ul> >> Insert the battery to the microphone.
	Is microphone charging? (BATT indication RED or RED brink) >>Please extract a charge cable.
	<ul style="list-style-type: none"> <li>• Is the battery depleted?</li> </ul> >> Charge the battery.
Can not use (Link indicator Red blinking)	A pairing registration error with a receiver. >> Please check registration in the following procedure. <ul style="list-style-type: none"> <li>• Remove the battery cover and remove the battery.</li> <li>• Insert the battery and attach the battery cover.</li> <li>• Press a receiver's [LINK] button, and a receiver is made into register mode.</li> <li>• When an LINK button is pressed, the LINK LED blinks yellow at 20s (pairing registration mode)</li> <li>• During this time, please register pairing by the following operation. Pressing [PWR/MUTE] button and [REC] button for one second or more will register for receiver.</li> </ul>
Can not use (Link indicator is Yellow blinking)	Pairing registration with a receiver has not been performed. >> (1) Press a receiver's [LINK] button, and a receiver is made into register mode. (2) Press simultaneously [PWR/MUTE] button and [REC] button will register for receiver. (microphone power OFF state) (Refer to the manual of the device with the receiver (K-SRB20).)
	Microphone is out of range. >>Please use in the range.
	Is the receiver's power supply on? >>Please check a receiver's power supply.

Volume too low (No sound)	Is the volume of the [OWN] microphone turned down? >> With the [OWN] selection indicator lit, press the [▲] volume button to increase the volume.
	Is the receiver set up correctly? >> Check the settings.
No sound from the microphone opening	Is any external device connected to the external input terminal or microphone input terminal? >> Connection of an external device or external microphone, even if not powered up, disables sound transmission from the microphone opening of the microphone. Unplug the connected devices
No sound	Does the [OWN] selection indicator blink? >> Press the [PWR/MUTE] button to cancel muting.
No sound from an external microphone	Is the external microphone connected to the external input terminal? >> Connect the external microphone to the microphone input terminal.
Loud noise	Is an external device (for example, a portable CD player) connected to the microphone input terminal? >> Connect the external device (for example, a portable CD player) to the external input terminal.
No operation possible (muting, volume adjustment, etc.)	Are the [OWN], [OTHER] and [CH3] selection indicators all lit? >> Press the [PWR/MUTE] button for 2 seconds or more to turn off the microphone, and then turn the power on again.
Does not charge (Battery indicator is off)	• Is a battery installed? >> Install a battery.
	• Is the USB Type-C plug of the charger inserted all the way into the DC input terminal? >> Confirm the connection.
Does not charge (Battery indicator is blinking red (blinks periodically by lighting up for 0.5 seconds and turning off for 0.5 seconds))	Has the battery deteriorated? >> Deteriorated rechargeable battery will shorten the battery duration or cannot turn on the microphone. Replace the deteriorated battery with a new rechargeable one.
It takes time by charge completion	Aren't you charging it from a PC? >> Please charge it from a charger connected to power outlet. Do not recommend charging a battery from PC.

## **Specifications**

Radio Standard	DECT
Frequency Range:	1,920.0-1,930.0 MHz
Coverage (*1)	20m (NORMAL) 30m (Hi POWER)
Microphone type	Unidirectional electret condenser microphone
Audio Frequency Response	100 Hz to 7 kHz (From Microphone to receiver)
External input level	-55 dBV ø3.5 mini jack (plug-in power compatible)
External input	-24 dBV ø3.5 stereo mini jack (monaural mix)
Battery	Lithium Ion Battery (Chargeable)
Battery life	about 2 years (Battery needs to be replaced every 2 years)
Talk time	Around 8 hours
Charge Time	Around 4 hours(5V/500mA)
Charging method	Power Supply with USB Type-C charging terminal
Dimensions	3.31"(H) x 1.89"(W) x 0.63"(D) 84 H x 48 W x 16 D [mm], excluding projections.
Weight	0.121 lbs. (55 g) (including Strap and Clip, not including Battery)
Temperature Range	5°C - +35°C {41 °F - 95 °F}
Humidity Range	10% - 90%
The Condition of Installation	Indoor use

(\*1): Coverage is the distance to the microphone used for classroom audio.

Weights and dimensions indicated are approximate.

Specifications are subject to change without notice.