

# SHARP®

SOUND PARTNER  
PENGERAS SUARA

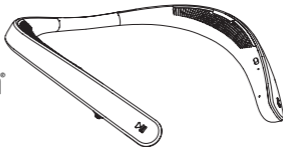
ซาวด์พาร์ทเนอร์  
音伴

MODEL รุ่น  
MODEL 型號

## AN-SS1

OPERATION MANUAL  
PETUNJUK PENGOPERASIAN

คู่มือการใช้งาน  
操作手冊



ENGLISH

... Please refer to pages EN-1 to EN-24.

INDONESIA

... Silakan lihat halaman IN-1 sampai IN-24.

ไทย

... โปรดดูหน้า TH-1 ถึง TH-24

中文

... 請參閱第ZH-1-ZH-24頁。

## Introduction

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Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

AN-SS1 consists of Sound Partner and AN-WD1 (*Bluetooth*<sup>®</sup> Wireless Transmitter).

## Special Notes

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### 1. Radio frequency exposure

Sound Partner AN-SS1 is a radio transmitter and receiver. When in operation it communicates with a *Bluetooth*<sup>®</sup> equipped mobile device by receiving and transmitting radio frequency (RF) electromagnetic fields (microwaves) in the frequency range 2.4 to 2.48 GHz. This product is designed to operate in compliance with the RF exposure guidelines and limits set by national authorities and international health agencies when using compatible mobile phone.

### 2. Battery information

- A rechargeable battery has a long service life if treated properly.
- A new battery or one that has not been used for a long period of time could have reduced capacity the first few times it is used. Do not expose the battery to extreme temperatures, never above 50°C (122°F) or below -10°C (14°F).
- For maximum battery capacity, use the battery at room temperature.
- If the battery is used in low temperatures, the battery capacity will be reduced. The battery can only be charged in temperatures between 10°C (50°F) and 45°C (113°F).
- RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

### 3. Removal of waste batteries and accumulators

(Product with embedded battery ONLY)

- In case this product contains a battery incorporated within the product which cannot be readily removed by end users, SHARP recommends that only qualified professionals remove the battery, either for replacement or for recycling at the end of this



Recycle the battery

## Special Notes (continued)

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product's working life. To prevent damage to the product, and for their own safety, users should not attempt to remove the battery and should contact authorised independent service providers for advice.

### CAUTION:

Internal lithium battery in the unit should not be replaced by end users due to danger of explosion if battery is incorrectly replaced and must be replaced with the exact type battery by authorised service providers.

### Avoiding hearing damage

If volume on the headset is too high, permanent hearing loss may occur. Please set the volume to a safe level. You can become habitual to hear at high volume that may sound normal but can damage your ears. If you experience ringing in your ears or muffled speech, stop listening and have your ears checked by the specialist doctor. The louder the volume, the more quickly the hearing can be damaged.

Hearing experts suggest how to protect your hearing

- Limit the amount of time you use the headset at high volume.
- Avoid the habit of increasing the volume so that you do not hear the loud noises around you.
- Turn the volume down if you cannot hear people speaking around you.

For setting the maximum volume limit of the connection device, refer to the instruction manual supplied with the connection device.

Class B equipment (home-use broadcasting communication equipment):

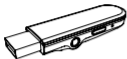





This equipment is intended for home-use (Class B) electromagnetic compatibility equipment and can be used in all areas.

The *Bluetooth*<sup>®</sup> word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by SHARP is under license. Other trademarks and trade names are those of their respective owners.

Qualcomm<sup>®</sup> aptX<sup>™</sup> is a product of Qualcomm Technologies, Inc. and/or its subsidiaries. Qualcomm is a trademark of Qualcomm Incorporated, registered in the United States and other countries. aptX is a trademark of Qualcomm Ltd., Technologies International, registered in the United States and other countries.

## Accessories

The following accessories are included.

 <p><i>Bluetooth</i> Wireless Transmitter x 1 (AN-WD1)</p>	 <p>USB Charging Cable x 1</p>	 <p>3.5mm AUX Cable x 1</p>
 <p>USB Extension Cable x 1</p>	 <p>Detachable Tape (Hook) x 1</p>	 <p>Detachable Tape (Loop) x 1</p>

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## Precautions

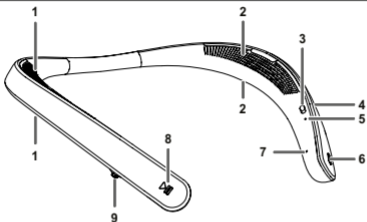
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### ■ General

- Do not drop the product from a high place.
- Do not place anything heavy on the unit.
- Do not replace the battery, the unit may explode.
- This device is not a medical device.
- If you have a medical device implanted, contact your doctor before using this unit.
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic / electrical equipment which generate electrical noise.
- **Do not expose the unit to moisture, to higher temperatures or to extremely low temperatures.**
- Do not repair or disassemble the unit. Refer internal service to your local SHARP service facility.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Make sure that an infant or a child does not swallow a small component of the product.
- If the unit is exposed to a large amount of sweat, wipe the product clean.

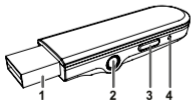
## Controls and indicators

### ■ Sound partner



1. Right Speaker
2. Left Speaker
3. Power Switch
4. DC IN Socket
5. LED Indicator
6. Call Button
7. Microphone
8. Play/Pause Button
9. Jog (Volume Control, Skip Up/Down, Mode Button)

### ■ Bluetooth Wireless Transmitter



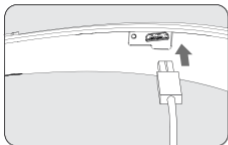
1. USB Port
2. Audio Cable Input
3. Pairing Button
4. LED Indicator

## Preparation Before Use

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### ■ Charging the battery

Open the DC IN cover and then connect the charging cable. Connect the Micro USB charging cable to the slot and to AC adapter of which DC voltage output ranges 4.75~5.3V(Typical)



### Charging Indication:

LED	Red	Purple	Blue
Battery Status	Charging	≥ 80%	Completed

If the charger is plug in while the power is ON, the unit will automatically turns off.

The speaker does not operate while charging.

### ■ To turn the power on

Slide the power switch towards [ON] position.

## Preparation Before Use (continued)

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### ■ Checking the battery status

While in pairing mode, slide and hold Jog Button towards (-) position for 2 seconds, voice prompts and LED will blink to indicates battery status.

#### Indication:

Battery Status	Sufficient	Normal	Insufficient
LED	Blue flashes three times	Purple flashes three times	Red flashes three times

#### Cautions:

- At extremely high or low temperatures, the battery may not be fully charged.
- To maintain functionality, the device needs to be charged at least once every six months.
- Battery of the device has limited life, as with any other rechargeable batteries.
- Capacity may gradually be decreased over time of which extent may vary depending on the conditions of use and external environment.
- There are multiple factors such as volume level, external environment etc that may affect the time of device power turning off, other than the percentage of battery left.
- Use this product only with an agency approved power supply which meets local regulatory requirements (e.g., UL, CSA).
- The equipment shall be connected only to a power supply with limited power source.



## Listening to *Bluetooth* enabled devices

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### ■ *Bluetooth*

*Bluetooth* wireless technology is a short-range radio technology that enables wireless communication between various types of digital devices, such as mobile phone or computer. It operates within a range of about 10 meters without the hassle of having to use cables to connect these devices.

#### **AN-SS1 supports the following:**

Communication System: *Bluetooth* Specification version 4.1. Support Profile: HSP (Headset Profile), HFP (Hands-free Profile), A2DP (Advance Audio Distribution Profile), and AVRCP (Audio/Video Remote Control Profile)

#### **Qualcomm® aptX™ audio**

Qualcomm® aptX™ audio is a *Bluetooth* wireless technology that prevents loss of sound and provides CD-quality audio. You can enjoy clear audio sound when listening to music and watching movies. Qualcomm® aptX™ audio works automatically only on the phones or the audio devices that support Qualcomm® aptX™ audio.

Qualcomm® aptX™ is a product of Qualcomm Technologies, Inc. and/or its subsidiaries.

#### **Notes when using unit with a mobile phone**

- Please refer to the operating manual supplied with the mobile phone for details on operation of your mobile phone while transmitting the sound using a *Bluetooth* connection.

*Bluetooth* devices need to be initially paired first before they can exchange data. This unit can memorise up to a maximum of 8 devices. Once paired, it is not necessary to pair them again unless:

- pairing is made with more than 8 devices. Pairing can only be made one device at a time. If subsequent device is paired, the oldest device paired will be deleted and replaced with the new one.

## **Listening to *Bluetooth* enabled devices (continued)**

### **Indicators:**

<b>Status</b>	<b>Description</b>
Turning Power On	LED blinks in blue colour 4 times, LED blinks 3 times in the colour indicating Battery status, and LED blinks indicating Connection Status.
Turning Power Off	LED blinks 4 times in blue colour.
Search Mode	Blue LED is on.
Being connected	LED alternately blinks in Red and Blue colour.
Connected	LED blinks in blue colour once every 5 seconds.
Call / Music play	LED blinks in blue colour once every 5 seconds.

## **Listening to *Bluetooth* enabled devices (continued)**

This unit can easily be paired / connected with the help of voice prompts. If voice prompt says that the battery is insufficient, then you are advised to recharge the battery before proceeding to pair and connect. In case pairing is not completed within three minutes for various reasons, the power automatically turns off, with power switch still in ON position. To turn the device on, slide the Power Switch to OFF position and then back to ON position.

### **Quick Connection**

- 1** Turn on the unit by sliding the power switch towards the ON position. The unit switches to Search Mode and the Blue LED turns on.
- 2** Perform pairing procedure on the source device to detect this unit. "AN-SS1 SHARP" will appear in the detected devices list (if available) in the source device. (Refer to the source device operating manual for details).

### **Notes:**

- Place the devices to be paired within 1 meter (3 feet) of each other when pairing.
  - Some source devices are unable to display lists of detected devices. To pair this unit with the source device, refer to the source device operating manual for details.
- 3** Select "AN-SS1 SHARP" from the source list. If Passcode\* is required, enter "0000". When connection is complete, it is announced by voice prompt.

\* Passcode may be called PIN Code, Passkey, PIN number or Password.

## **Listening to *Bluetooth* enabled devices (continued)**

### **Manual Connection**

- 1** Turn on the unit
- 2** Press and hold the Play/Pause button and Call button simultaneously for two seconds.

The unit switches to Search Mode and the Blue LED turns on.

- 3** Select “AN-SS1 SHARP” from the source list.

### **Automatic Reconnection**

This unit automatically reconnects to the *Bluetooth* enabled device it was last connected. If automatic reconnection does not work, perform ‘Manual Connection’ from step 1 onwards.

### **Cautions:**

- Please note that there can be certain devices that may not be paired/connected with this unit for various reasons including but not limited to data security settings.
- In some cases, any of Automatic Reconnection or Manual Connection may not work. In this case, delete “AN-SS1 SHARP” from the pairing device list, and pair the unit again.

## **Listening to *Bluetooth* enabled devices (continued)**

### **Notes:**

- If a device such as microwave oven, wireless LAN card, *Bluetooth* device or any other device that uses the same 2.4 GHz frequency is placed near the system, some sound interruption may be heard.
- The transmission distance of the wireless signal between the device and the unit is about 10 meters (33 feet), but may vary depending on your operating environment.
- If a steel concrete or metallic wall is between the device and the unit, the system may not operate at all, because the wireless signal cannot penetrate metal.
- If this unit or the source device is turned off before *Bluetooth* connection is completed, pairing will not be completed and the pairing information will not be memorised. Start pairing again.
- To pair with other devices, repeat Manual Connection for each device. This unit can memorise up to a maximum of 8 devices. If subsequent device is paired, the oldest device paired will be deleted.
- Once a device is ousted or deleted from the pairing list, the pairing information for the device is also deleted. Perform Quick or Manual Connection to listen to the sound from the device again.

## **Listening to *Bluetooth* enabled devices (continued)**

### **■ Listening to the sound**

#### **Media Playback**

<b>Function</b>	<b>What to do</b>
Play/Pause	Press the Play/Pause button.
Volume Control	Sliding the Jog button towards (+) or (-) position changes the volume one level at a time.
Previous Song	Slide and hold the Jog button towards (+) position for 1 second while playing the media.
Next Song	Slide and hold the Jog button towards (-) position for 1 second while playing the media.
Change Acoustic Vibe Mode	Press the middle of Jog button and hold for 2 seconds to turn Acoustic Vibe on and off.
Access voice control	Press the Call button to activate voice control. To cancel voice control, press the call button again. This function is not applicable in case your mobile device does not support voice control.

#### **Out of Communication Range**

The Sound Partner may lose connection if device is out of range (10 meters (33 feet)). This status of losing connection will be notified of by voice prompt, and the Sound Partner will automatically try to reconnect for 10 minutes. If automatic reconnection is not made, you can try to connect it manually. After 10 minutes, the Sound Partner stops to reconnect and LED indicator will blink 2 times quickly in every 5 seconds in red colour.

## **Listening to *Bluetooth* enabled devices (continued)**

### **Call Functions**

<b>Function</b>	<b>What to do</b>
Answer a call / End a call	Press the Call button.
Redial	Press and hold the Call button for 1 second to dial the last number you have called.
Access voice control to make a call	While not on a call, press the Call button to activate voice control. To cancel voice control, press the call button again. This function is not application in case your mobile device does not support voice control.
Switching to Speaker or to Mobile device while on a call	Slide the Jog button towards (+) and hold for 2 seconds to switch the call to the speaker or to your mobile phone.
Answer a second incoming call and put the current call on hold	While on a call, press and hold the Call button for 1 second.
Decline an incoming Call	Press and hold the Call Button for 2 seconds.
Switch between two calls	With two active calls, press and hold the Call button for 1 second.

## **Listening to *Bluetooth* enabled devices (continued)**

### **Call Functions (continued)**

<b>Function</b>	<b>What to do</b>
Mute a call	While on a call, press and hold the Play/Pause Button for 1 second.
Unmute a Call	While on a call, press the Jog Button in the middle.

**Note:**

Remote control of call functions with the Speaker may not be applicable in some mobile devices/applications.



## Listening to the sound through *Bluetooth* wireless transmitter

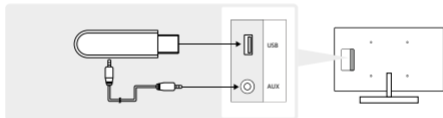
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The transmitter has different functions which depends on the connected devices.

### ■ Connecting the transmitter to TV

When you connect the transmitter to a TV that does not support USB Audio, you need to connect AUX cable to the Audio / Headphone output terminal of the TV and the Audio input terminal of the transmitter as shown in Figure 1 and Figure 2. Microphone function is not supported in this case.

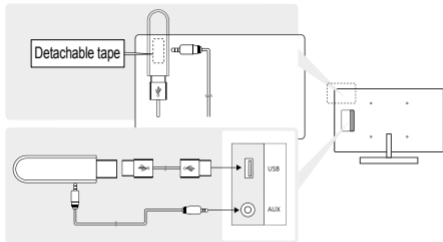
Fig. 1) Connecting to TV with Audio cable



## Listening to the sound through *Bluetooth* wireless transmitter (continued)

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Fig. 2) Connecting to TV with USB extension cable + Audio cable



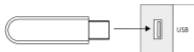
### Cautions:

- Connecting as shown in Figure 2 may decrease interference and hence increase the performance of *Bluetooth* connection
- If your TV does not support USB audio and does not have Audio/Headphone output terminal at the same time, the transmitter cannot be connected and work.
- Set TV volume at moderate level for better sound quality output from the speaker.
- SHARP does not guarantee the best performance of transmitter connection for every single TV in the market. The transmitter may not be connected and work with some TV.

## Listening to the sound through *Bluetooth* wireless transmitter (continued)

### ■ Connecting to PC

This transmitter supports plug and play with PC.



### ■ Pairing with the Sound Partner

#### Manual Connection

- 1 Connect the transmitter to PC or TV.
- 2 Press the pairing button for 3 seconds, and the transmitter switches into pairing mode.  
The unit switches to Search Mode and the Blue LED turns on.
- 3 Turn on the Sound Partner.
- 4 Press and hold the Play/Pause button and the Call button of the Sound Partner simultaneously
- 5 Voice prompt will be confirmed when the connection is complete.

#### Dual streaming connection

The transmitter can be paired to a maximum of 2 Sound Partners simultaneously. To pair with a second Sound Partner, repeat 'Manual connection' from step 2 onwards.

#### Automatic reconnection

Turn on the Sound Partner while the transmitter is on, and reconnection will be made automatically. If automatic reconnection does not work, manually connect it as explained above.

#### Caution:

If pairing/connecting fails, try again by putting the transmitter out and then insert it again and repeat the steps.

## Listening to the sound through *Bluetooth* wireless transmitter (continued)

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### Transmitter LED Indicator

Function	What to do
Turning Power On	When there is no connection history, the blue LED blinks quickly for 30 seconds and blinks three times quickly in every 5 seconds. The cycle repeats. When there is previous connection history, the blue LED blinks twice quickly in every 5 seconds.
Turning Power Off	The LED turns off.
Connection Request Mode	The blue LED blinks quickly for 30 seconds and blinks three times quickly in every 5 seconds. The cycle repeats.
Connected Status	The blue LED blinks once in every 5 seconds.

### Sound Partner function when connected to TV

Function	What to do
Speaker on/off	Press the Play / Pause button.

## Listening to the sound through *Bluetooth* wireless transmitter (continued)

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### Sound Partner functions when connected to PC

Function	What to do
Mic On	Press the call button. Speaker Volume changes to default level every time Mic turns on.
Speaker On / Off	Press the Play/Pause Button.
Mic & Speaker On	Press the Play/Pause Button while both Mic and Speaker are off and then turn them „ON“ at the same time. Speaker Volume changes to default level in this case.
Mic & Speaker Off	Press the Play/Pause Button while both Mic and Speaker are on and then turn them „OFF“ at the same time.

## Troubleshooting

If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

### ■ General

Symptom	Possible cause
● When a button is pressed, the unit does not respond.	● Turn off the unit and then turn it back on.
● No sound is heard.	● The volume level set to minimum ● The unit is turned off

### ■ Bluetooth

Symptom	Possible cause
● No sound is heard.	● The unit is too far from the <i>Bluetooth</i> audio source device. ● The unit is not paired with the <i>Bluetooth</i> audio source device.
● <i>Bluetooth</i> sound is interrupted or distorted.	● The unit is too near to a device that generates electromagnetic radiation. ● There is an obstacle between the unit and the <i>Bluetooth</i> audio source device.

## Maintenance

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### ■ Cleaning the unit

Periodically wipe the unit with a soft damped cloth, then with a dry cloth.

**Caution:**

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the unit.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

## Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations of these values by individual unit.

### ■ Sound Partner

<b>Bluetooth Specification</b>	V 4.1 (HSP/HFP/A2DP/AVRCP Profile)
<b>Battery</b>	DC 3.7 V / 420 mAh , Lithium-ion Polymer
<b>Standby Time</b>	Up to 750 hours
<b>Talk Time</b>	Up to 17 hours
<b>Music Play Time</b>	Up to 14 hours
<b>Charging Time</b>	Less than 2.5 hours
<b>Rated Input Voltage</b>	DC 4.75 V - 5.3 V, 230 mA
<b>Operating Temperature</b>	-10 °C(14 °F) ~ 50 °C(122 °F)
<b>Dimension</b>	Length: 181 mm (7 - 1/8") Width: 181 mm (7 - 1/8") Height: 16 mm (0 - 5/8")
<b>Weight</b>	88 g (0.19 lbs.)
<b>Operating Frequency</b>	2.402 GHz - 2.480 GHz
<b>Antenna power supply</b>	3 mW



## Specifications (continued)

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### ■ Bluetooth Wireless Transmitter

<b>Bluetooth Specification</b>	V 4.2 (HFP/A2DP/AVRCP Profile)
<b>Rated Input Voltage</b>	DC 4.75 V - 5.3 V
<b>Operating Temperature</b>	-10 °C(14 °F) ~ 50 °C(122 °F)
<b>Dimension</b>	Length: 67 mm (2 - 5/8") Width: 18 mm (0 - 11/16") Height: 10.4 mm (0 - 7/16")
<b>Weight</b>	9,5 g (0.02 lbs.)
<b>Operating Frequency</b>	2.402 GHz - 2.480 GHz
<b>Antenna power supply</b>	3 mW

### Out of Communication Range

The Sound Partner may lose connection if device is out of range (10 meters (33 feet)). This status of losing connection will be notified by voice prompt, and the Sound Partner will automatically try to reconnect for 10 minutes. If automatic reconnection is not made, you can try to connect it manually. After 10 minutes, the Sound Partner stops to reconnect and Red LED of the Sound Partner and Blue LED of the transmitter will blink 2 times quickly in every 5 seconds

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