Wearable Wireless Speaker

SP-A7W

User Manual

Rev 1.0 ENG

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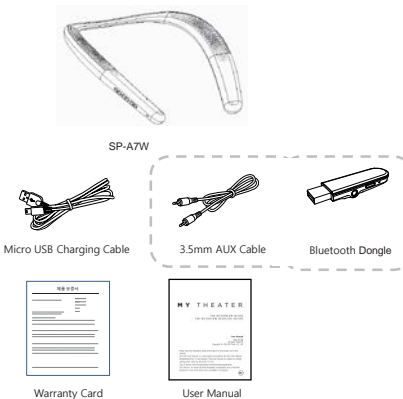Copyright © 2018 S&O Electronics (Malaysia) Sdn. Bhd.

Please read and keep all safety and use instructions.

Store this User Manual in a place easily accessible to all users.

EM-Tech reserves right to change this User Manual without prior notice.

This device has been tested and found to comply with the limits for a Class B digital device(Home broadcasting communication equipment). It has class B electromagnetic compatibility and is primarily designed for but not limited to home use.

BC

Product Components

SP-A7W

Micro USB Charging Cable   3.5mm AUX Cable   Bluetooth Dongle

Warranty Card   User Manual

If you have bought SP-A7W, confirm that all above parts are included.
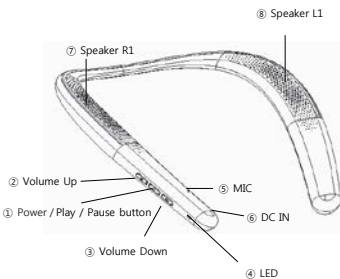
Actual product design may differ from images shown in this manual.

⚠CAUTION

Make sure that only components specified by the manufacturer are used.

Using non-authentic components may damage the product and thus void the warranty period.

Product Description

⑧ Speaker L1

⑦ Speaker R1

② Volume Up

① Power / Play / Pause button

③ Volume Down

⑤ MIC

⑥ DC IN

④ LED

NOTE: For the purpose of preventing hearing damage, we have put warning sound for the upper 6 levels of total 16 volume control.

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™ audio is a product of Qualcomm Technologies International, Ltd.
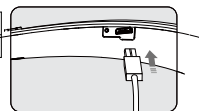

Battery Charging and Alerts

Open the **Charging port** cover and connect the charging cable.

LED	Red	Purple	Blue
Battery Status	Charging	80 %	Completed

If you plug in the charger while the power is [ON], it automatically turns off. The speaker does not operate while charging.

To turn the power on, slide the power switch toward [OFF] and then slide it back toward [ON].

To check the battery status, press and hold the Jog Button toward any of (-) or (+) direction for 2 seconds, and voice prompts and status LEDs will guide you.

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

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

⚠CAUTION

● 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 in 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, VDE, CCC).
● The equipment shall be connected to a power supply with limited power source.
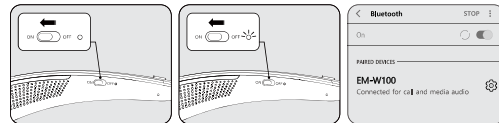

Paring and Connecting

Wearable Wireless Speaker 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

EM-W100
Connected for call and media audio

1 Turn Wearable Wireless Speaker on by sliding the power switch toward the ON position. The device switches to Search Mode and the Blue LED turns on.
2 Select Wearable Wireless Speaker from your device to connect with. When connection is complete, it is announced by voice prompt.

Manual Connection

1 Turn Wearable Wireless Speaker on by sliding the power switch toward the ON position.
2 Press and hold the Play/Pause button and Call button simultaneously for two seconds. Wearable Wireless Speaker switches to Search mode.
3 Select Wearable Wireless Speaker from your device to connect with.

⚠Caution

Please be noted that there can be certain devices that may not be paired/connected with Wearable Wireless Speaker , for various reasons including but not limited to data security settings.

Automatic Reconnection

Wearable Wireless Speaker automatically reconnects to the Bluetooth enabled device it was last connected.

If voice prompt says that the battery is insufficient, then you are advised to recharge the battery before proceeding to pair and connect.

If automatic reconnection does not work, manually connect it as explained above.

⚠Caution

In some cases, any of Automatic Reconnection or Manual Connection may not work. In this case, delete Wearable Wireless Speaker from the pairing device list, and search and pair Wearable Wireless Speaker again.

LED Indicator

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

Media Playback

Function	What to do
Play/Pause	Press the Play/Pause button.
Volume Control	Press the Volume Up button or the Volume Down button changes the volume one level at a time.
Previous Song	Press and hold the Volume Down button for 1 second while playing the media.
Next Song	Press and hold the Volume Up button for 1 second while playing the media.
Change Acoustic Vibe Mode	Press the Volume Up button and the Volume Down button to turn Acoustic Vibe on and off.
Access voice control	Press and hold Volume Down button to activate voice control. To cancel voice control, press and hold Volume Down button again. This function is not applicable in case your mobile device does not support voice control.

Out of Communication Range

The speaker may lose connection if device is out of range(10m or 33 ft.)
This status of losing connection will be notified of by voice prompt, and the speaker 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 speaker stops to reconnect and LED indicator will blink 2 times quickly in every 5 seconds in red color.

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

Call Functions

Function	What to do
Answer a call / End a call	Press the Play/Pause button.
Access voice control to make a call	While not on a call, press and hold Volume Down button to activate voice control. To cancel voice control, press and hold Volume Down 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	Press and hold Volume Up button 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 Play/Pause button for 1 second.
Decline an incoming Call	Press and hold the Play/Pause Button for 2 seconds.
Switch between two calls	With two active calls, press and hold the Play/Pausebutton for 1 second.
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.

Specifications and Features

Item	Comments
Model	SP-A7W
Name	Specific low power wireless device (Data transmission wireless device)
Bluetooth Specification	V 5.0 (HSP/HFP/A2DP/AVRCP Profile)
Battery	DC 3.7 V / 410 mAh , Lithium-ion Polymer
Standby Time	Up to 750 hours
Talk Time	Up to 17 hours
Music Play Time	Up to 14 hours
Charging Time	Less than 2.5 hours
Input Voltage	DC 5 V, 200 mA (Operating Voltage 4.75 V ~ 5.3 V)
Operating Temperature	-10 °C(+14 °F) ~ +50 °C(+122 °F)
Dimension / Weight	181 mm (W) X 181 mm (L) x 16 mm (H) / 88 g
Operating Frequency	2402 MHz - 2480 MHz
Antenna power supply	3 mW
The recipient of the conformity assessment	EM-Tech
Manufacturer	EM-TECH VIETNAM CO., LTD.
Country of Origin	Vietnam
Manufacturing year	Marked on the box separately (S/N : 1st-3rd number ~ Yr/Mon)
Certification Number	R-R-eMT-SP-A7W

Safety Cautions

• Do not drop the product from a high place.
• Do not repair or disassemble the product.
• Keep the product away from water, alcohol, benzene, etc.
• Avoid contact with flammable materials.
• Do not place or store the product near excessive heat or flammable material.
• Please keep away from damp and dusty places.
• Do not place any heavy objects on the product.
• Warranty is immediately voided if the product or its associated accessories are serviced or repaired by any entity, including persons, not authorized by S&O Electronics .
• Do not arbitrarily replace the battery because it may explode.
• If you use an incompatible recharger, the product may be damaged.
• This product is not waterproof. Avoid humidity or water when using the product.
• Make sure that an infant or a child does not swallow a small components of the product.
• If you have a medical device implanted, contact your doctor before using this device. This device is not a medical device.
• Disconnect the charger from the wall outlet to prevent unnecessary power consumption.

❗**Reference**

If the product is exposed to a large amount of sweat, wipe the product clean.

Additional Information

1. Radio frequency exposure
This Bluetooth® Wireless Stereo Neckband Speaker SP-A7W is a radio transmitter and receiver. When in operation it communicates with a Bluetooth® equipped mobile device by receiving and transmitting radio frequency (RF) electromagnetic fields (microwaves) in the frequency range 2.4 to 2.4835 GHz. Your Bluetooth® Headset is designed to operate in compliance with the RF exposure guidelines and limits set by national authorities and international health agencies when used any compatible mobile phone.

Declaration of Confirmation

FCC NOTICE TO USERS:
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.

DECLARATION OF CONFORMITY :
Hereby, S&O Electronics Sdn. Bhd. declares that these SP-A7W are in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU .

Bluetooth® is a registered trademark of Bluetooth SIG, Inc. worldwide.
Qualcomm® aptX™ audio is a product of Qualcomm Technologies International, Ltd.

Bluetooth® CE marks

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Additional Information

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 is used in low temperatures, the battery capacity will be reduced. The battery 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.

Important Safety Information

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 can not 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.

FCC Compliance information

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 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 correct the interference by one 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 which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Caution : Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

IC Radiation Exposure Statement for Canada

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with IC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance. Operation is subject to the following two conditions:
-This device may not cause interference and
-This device must accept any interference, including interference that may cause undesired operation of the device. To prevent radio interference to the licensed service (i.e. co-channel Mobile Satellite systems) this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
This device complies with Industry Canada licence-exempt RSS standard(s).

CAN ICES-3(B)/NMB-3(B)
The radiated output power of the Wireless Device is below the Industry Canada(IC) radio frequency exposure limits. This equipment complies with IC RF exposure requirements set forth for an uncontrolled environment.

Déclaration d'Industrie Canada relative à l'exposition aux ondes radio

Cet appareil est conforme aux limites d'exposition aux radiations d'Industrie Canada définies pour un environnement non-contrôlé. Pour maintenir la conformité avec les exigences d'exposition RF d'IC, veuillez éviter tout contact direct avec l'antenne pendant l'émission. Les utilisateurs finaux doivent suivre les instructions de fonctionnement spécifiques pour satisfaire la conformité aux expositions RF.
Son utilisation est sujette aux deux conditions suivantes:
-Cet appareil ne peut pas causer d'interférence, et
-Cet appareil doit accepter toute interférence, y compris les interférences qui pourraient causer un fonctionnement non souhaité de l'appareil. Pour éviter les interférences radio avec le service sous licence (c'est à-dire le partage de canal avec les systèmes de téléphonie satellite), cet appareil est destiné à être utilisé en intérieur et loin des fenêtres pour fournir un blindage maximal.
Tout appareil (ou son antenne d'émission) qui est installé en extérieur est sujet à cette licence.
Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

CAN ICES-3(B)/NMB-3(B)
La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC).