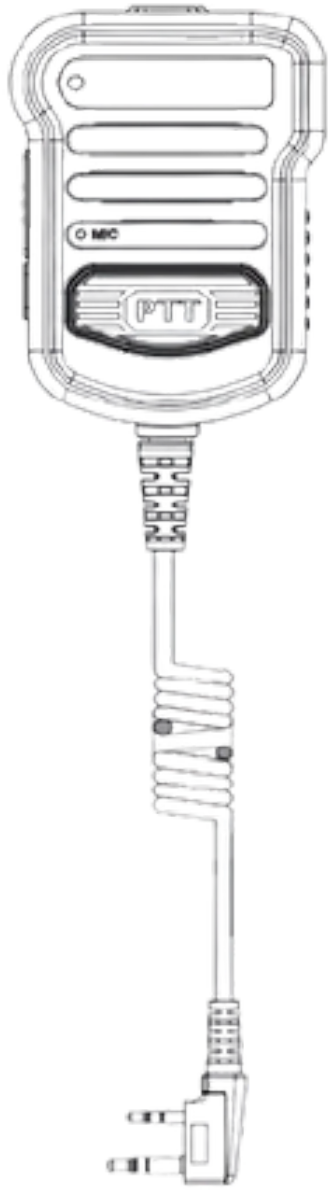
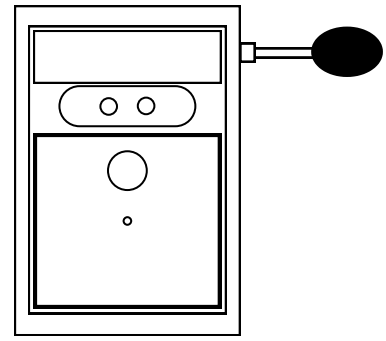
aimwell™
BREATHE SAFER & BETTER

AYO™ TALK-MIC

Two-way Radio-Enabled Wireless Microphone Speaker System





USER MANUAL

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Foreword

Congratulations on purchasing the Aimwell™ AYO™ TALK-MIC Two-way Radio-Enabled Wireless Microphone Speaker System - an advanced enhancement for communication while wearing AYO™ WX series PAPRs.

This User Manual aims to let you master the use of the system quickly. Before using the system, users must read and understand the User Manual. Keep these instructions for future use. Not following these instructions may damage your devices, harm your health, or void the warranty.

Safety Information

- No Modification or Improper Use: Do not open, replace, modify, add to, or remove any parts of the devices unless specified in the User Manual.
- No repair can be done by the users.
- Only use the included charging cable to charge the devices.
- Only a compatible cable shall be used to connect the AYO™ TALK with your two-way radio model.
- Do not charge the devices in an explosive environment.

Know Your AYO™ TALK-MIC System

System Overview

The AYO™ TALK-MIC System comprises an AYO™ TALK multifunction speaker and an AYO™ MIC customized wireless microphone, where the AYO™ MIC, when fitted in an AYO™ WX mask, picks up your voice and sends it to the AYO™ TALK via Bluetooth wirelessly.

AYO™ TALK-MIC can be used for both face-to-face and two-way radio communications.

Face-to-Face Communication

The AYO™ TALK receives the voice information sent by the AYO™ MIC, then processes it with a unique noise-cancelling algorithm before amplifying the voice for communication in dusty and noisy environments.

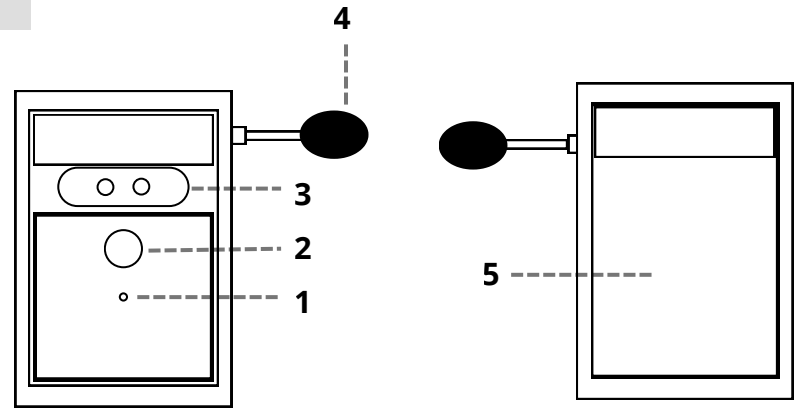
Two-Way Radio Communication

Once connected with a two-way radio device, the AYO™ TALK can also send the voice to a remote two-way radio device while wearing the mask or play audio information from the remote two-way radio device.

The AYO™ TALK also has its built-in microphone, and if you take off your mask and talk to the AYO™ TALK directly, the two-way radio communication can still function without interruption.

AYO™ MIC

1. LED Indicator
2. Pairing Button
3. Charging Contact
4. Microphone
5. Mounting Side



Mounting:

1. Fit the AYO™ MIC into the mounting bracket dedicated for the AYO™ WX mask to be fitted.
2. Place the assembly on the mask at the location required for each mask type shown below:

AYO™ WX FFM-LF:

Mounting Bracket + AYO™ MIC

AYO™ MIC Assembly

Fitted AYO™ MIC Assembly

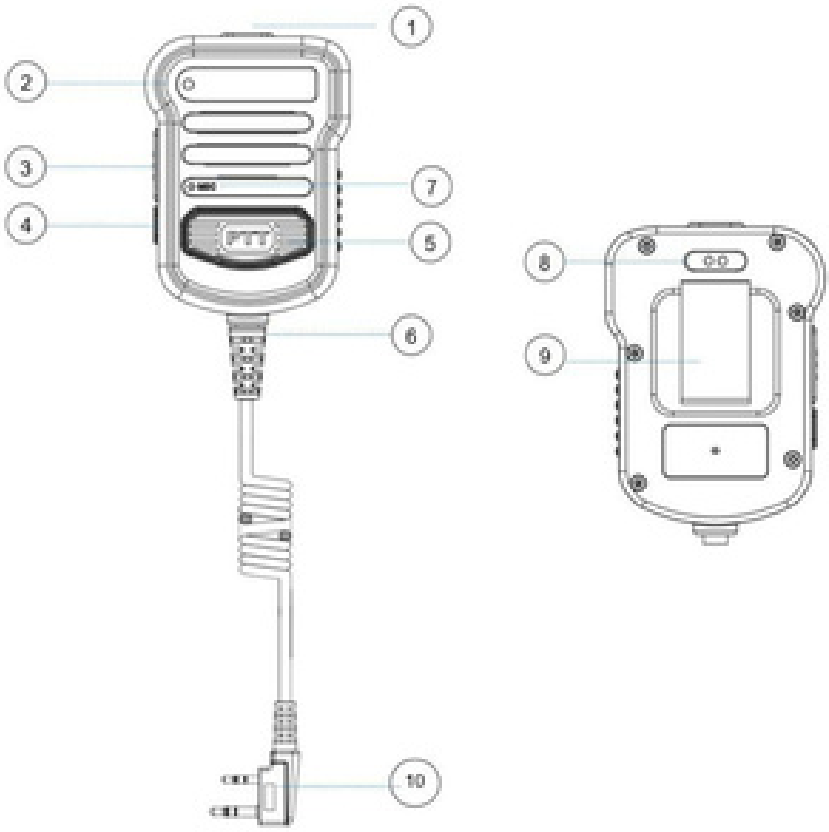
AYO™ WX HFM:

Mounting Bracket + AYO™ MIC

AYO™ MIC Assembly

Fitted AYO™ MIC Assembly

AYO™ TALK



1. On/Off Button
2. LED Indication
3. PTT Button - Side
4. Sound Volume Button
5. PTT Button – Front
6. Audio Cable Interface with two-way Radio
7. AYO™ TALK Built-in Mic
8. Charging Contact
9. AYO™ TALK Mounting Clamp
10. Two-way Radio Audio Cable Plug

Mounting:

Attach the AYO™ TALK to a suitable position on your clothing via the mounting clamp, such as on the outside of a pocket, on your shoulder, or on your waist belt.

Use in Two-Way Radio Communication

- Connect a compatible two-way radio audio cable to the AYO™ TALK and your two-way radio device accordingly.
- Hold the AYO™ TALK in your hand and operate the PTT button as usual for two-way radio communication.

Note:

- The two-way radio cable can vary with different brands and models of two-way radio devices. Make sure to provide the exact model number of your two-way radio device when ordering to confirm if a compatible cable can be provided with your AYO™ TALK-MIC system.
- The AYO™ TALK does not support full-duplex communication.

Operation - AYO™ MIC

Operation On and Off:

The AYO™ MIC will automatically turn on once a movement of the Mic is detected, and the Blue LED will flash briefly.

When the AYO™ Mic is not connected to the AYO™ TALK and the AYO™ MIC has been still for one minute, it will automatically turn off.

Paring:

Pressing the Pairing Button twice quickly will enter the Pairing Mode to pair with the companion AYO™ Talk. The Red and Green LEDs will be flashing until the pairing is completed, then the Red and Green LEDs will be turned off.

Once paired, no need to pair them again next time when the paired AYO™ TALK is turned on; they will connect automatically.

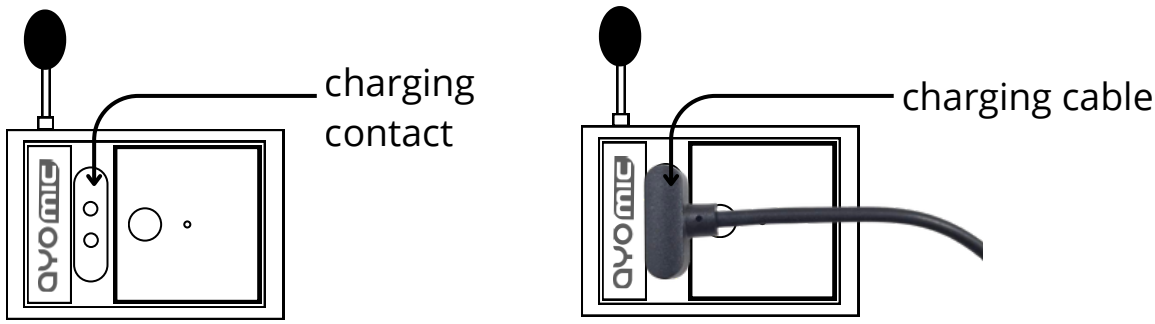
The Blue LED will be on briefly each time the AYO™ MIC moves.

Battery Indication

- When the battery is sufficient, the Red LED will be turned off.
- When the battery is low, the Red LED will be flashing.
- When the Red LED flashes for the first time, the AYO™ MIC can still work for another 5 hours.

Battery Charging:

- Remove the AYO™ MIC from its mounting bracket first.
- Place the magnetic connector of the charging cable to the charging contact on the AYO™ MIC as shown below:



- During charging, the Green LED will be flashing, and once fully charged, the Green LED will be constantly on.
- Fit the AYO™ MIC back to its mounting bracket.

Operation - AYO™ TALK

Operation On and Off:

Pressing the On/Off button once will turn on the operation with a confirming sound. If the device is idle for more than 5 minutes, it will automatically turn off with a confirming sound.

Alternatively, if you press the On/Off button for 3 seconds, it will turn off with a confirming sound too.

Paring:

Pressing the On/Off Button twice quickly after the device is turned on will enter the Pairing Mode to pair with the companion AYO™ MIC; the Red and Green LEDs will be flashing alternately, indicating the device is in Pairing Mode.

If AYO™ MIC is also in Pairing Mode, the pairing will be completed in seconds with a confirming sound, and the Red LED will be turned off. The system is ready to use.

The Blue LED will be on briefly if the AYO™ TALK moves.

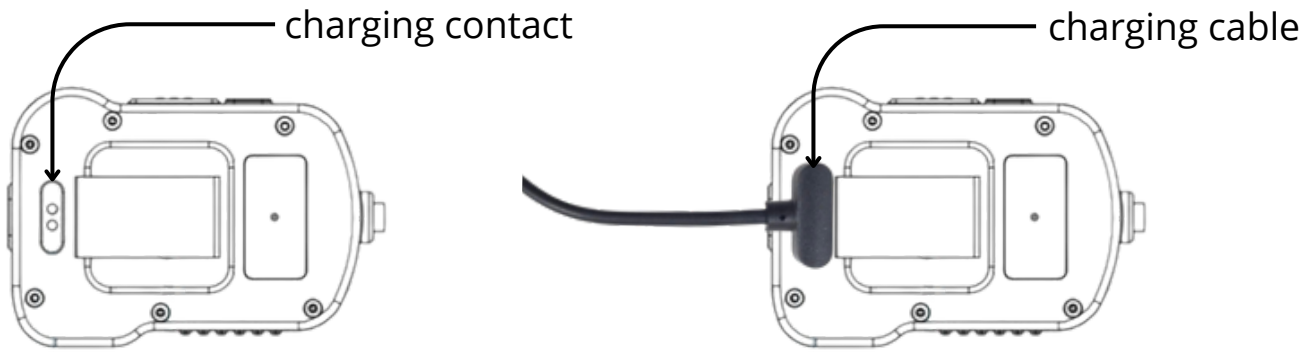
If the AYO™ TALK has been paired with the AYO™ MIC before, once Power-On, the AYO™ TALK will automatically pair with the previously paired AYO™ MIC with a confirming sound.

Battery Indication

- When the battery is sufficient, the Green LED will flash once every 3 seconds.
- When the battery is low, the Red LED will be flashing.
- When the Red LED flashes for the first time, the AYO™ TALK can still work for another 5 hours.

Battery Charging:

Place the magnetic connector of the charging cable to the charging contact on the AYO™ TALK as shown below:



During charging, the Green LED will be flashing, and once fully charged, the Green LED will be constantly on.

Volume Adjustment:

Pressing the Volume Button will toggle the volume setting between Low and High levels.

Note:

- The adjustment works for AYO™ TALK only.
- Volume adjustment for your two-way radio is done within the two-way radio device.

AYO™ TALK Functions:

Operation On State with AYO™ MIC

- When the two-way radio is receiving audio, the AYO™ TALK will stop amplifying sound sent from the AYO™ MIC and play the audio sent from the remote two-way radio.
- When pressing the PTT button (Front or Side), the AYO™ TALK will transmit the audio normally received from the AYO™ MIC wirelessly via Bluetooth.
- The AYO™ TALK can also receive voice directly via the built-in microphone in case you take the mask off and talk closely to the AYO™ TALK.

Operation Off State with the AYO™ MIC While Connecting with a Two-way Radio

- The built-in speaker can still play the audio received by the two-way radio.
- Pushing the PTT buttons (Front or Side) will enable talking to the remote two-way radio via the built-in microphone.

Noise-Cancelling

- The AYO™ TALK is equipped with AI-based noise-cancelling algorithms that effectively remove motor and breathing noise present inside the mask.
- The noise-cancelling feature greatly improves the speech intelligibility, especially when you speak a bit slower than your normal speech.

System Packing List

SKU	Product Name	Quantity
AP152	AYO™ TALK	1
AP153	AYO™ MIC	1
AP154	AYO™ MIC Mounting Bracket – FFM-LF	1
AP155	AYO™ MIC Mounting Bracket – HFM	1
AP158	AYO™ Talk Two-Way Radio Audio Cable*	1
AP159	AYO™ Talk Charger and Charging Cable	1
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Note:

By default, the system does not contain a two-way radio cable. It is only included when it is specified at the time of ordering and when a compatible cable is available for the intended two-way radio device.

Specification

Function / Parameter	AYO™ MIC	AYO™ TALK
On/Off	Auto On by movement Auto Off if idle for 1 minute when not connected with the AYO™ TALK	Manual On and Off, or Auto Off when idle for 5 minutes.
Communication Mode	Wireless	Wireless with AYO™ MIC, Cable with two-way Radio Device
Sound Output		> 85dB at 1m.
Battery Idle Time After Full Charge	50 hours (no movement)	80 hours (no amplification)
Battery Operation Time After Full Charge	25 hours	30 hours
Battery Life	Typical 3 years or 1000 full cycles, whichever comes earlier	Typical 3 years or 1000 full cycles, whichever comes earlier

First Low Battery (Red LED) Indication		Can still use for 5 hours	Can still use for 5 hours
Charging Time		3 hours	4 hours
Weight		15g	148g
Operation Conditions	**Altitude**	Up to 5500m	Up to 5500m
	Temperature	-20°C to 50°C	-20°C to 50°C
EX Protection Rating		Ex ib IIC T4 Gb	Ex ib IIC T4 Gb
IP Protection Rating		IP67	IP67

Replacement/Consumable Items

Scan the QR code for available accessory information

Disclaimer

You acknowledge and agree that at all times you will use AYO WX in accordance with any user documentation, instruction manuals, guides, and/or requirements we provide to you.

Aimwell makes no representations or warranties and shall not be responsible for the competency of any person who uses AYO WX. If you do not feel well using the AYO WX or have difficulty in breathing, please stop using the AYO WX.

Limited Liability

To the extent permitted by law, you will not hold Aimwell liable for any personal injury, loss of use, loss of profit, interruption of business, or any indirect, special, incidental, punitive, or consequential damages of any kind (including lost profits), regardless of the form of action, whether in contract, tort (including negligence), strict product liability, or otherwise, even if Aimwell has been advised or should have been aware of the possibility of such damages. To the extent permitted by law, Aimwell's liability to you for any claim, whether in contract, tort, or any other theory of liability, does not exceed the purchase price of the system paid by you.

It is further understood that Aimwell shall also have no liability whatsoever concerning damages arising out of or relating to unauthorized access, use, and/or alteration or destruction, by any third party, including any users, of the system or any data contained thereon or created by the system or your computer system.

Warranty

The warranty is valid for 12 months from the date of purchase, during which we offer repair or replacement of faulty products free of charge.

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