



AT-24 2.4 GHz Multi-function Directional Antenna

AT-58 5.8 GHz Multi-function Directional Antenna

User Guide

AT-24

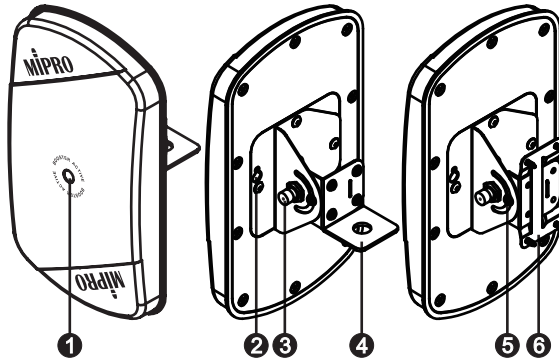


AT-58

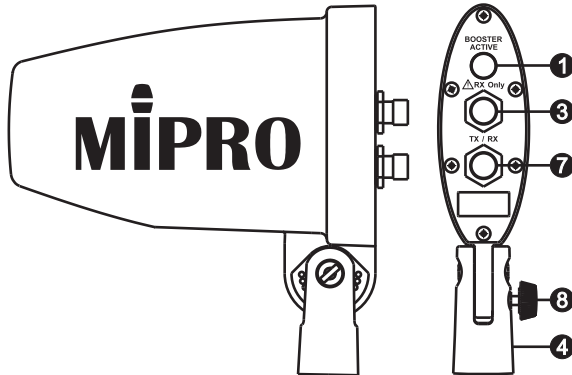


I. Part Names

1. AT-24:



2. AT-58:



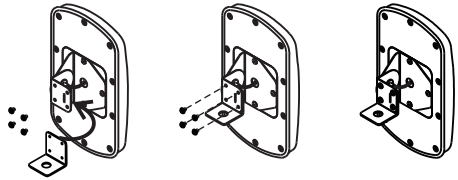
- 1** Power Indicator: Ensure the cable is connected to AT-24 / AT-58 and the receiver. The LED indicator glows once the receiver is powered on and the booster is now active.
- 2** Wall-mounting Keyhole: Line up keyholes with installed nail or hook in the wall.
- 3** RX Only Antenna Cable Connector: Built-in 20 dB (AT-58) gain booster. Connects to 12V DC power receiver's antenna connector.
- 4** Connecting Base: For mounting on a tripod or onto MIPRO MS-90 wall-mounting kit.

- 5 Adjustable Screw: Enables tightness tension adjustment for ideal directional antenna position.
- 6 Wall-mounting Plate: Enables direct wall-mounting installation.
- 7 TX / RX Antenna Cable Connector:
AT-58: For connecting transmitter output signal or receiver antenna input signal at 0 dB gain.
AT-24: When used as a transmitting antenna, connect to the MI-24T digital stereo transmitter; when used as a receiving antenna, connect to the receiver antenna input that supplies 12V DC bias for the built-in booster at 12 dB gain.
- 8 Fixed Rotator: To fix the antenna. Loose the rotator to adjust the antenna to the desired position, and then tighten the rotator.

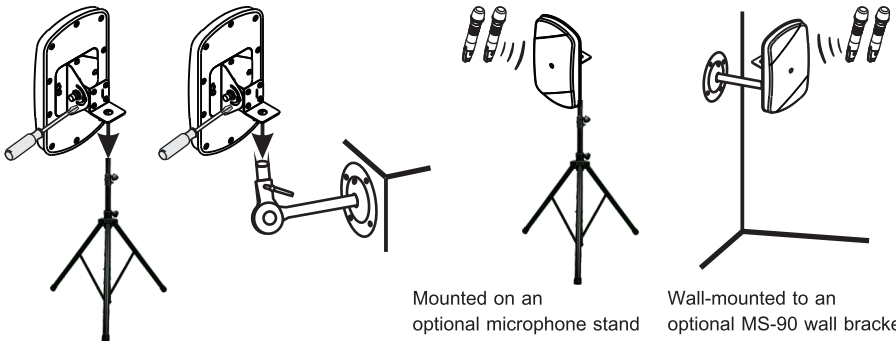
II. AT-24 Installation Instructions

1. Back Panel Assembly:

- (A) Align and screw up the Connecting Base 4 and the Wall-mounting plate.

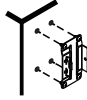


- (B) Once the back panel is fully assembled, the AT-24 can be mounted on a 35 Ø microphone stand or mounted into a wall using a MIPRO MS-90 wall-mounting bracket.

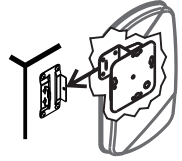


2. Direct Wall-Mounting without MIPRO MS-90:

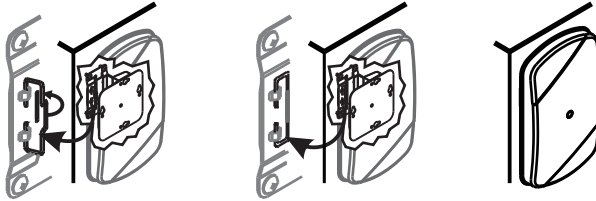
(A) Align, screw and tighten the Wall-mounting Plate ⑥.



(B) Align and insert the AT-24 in place.

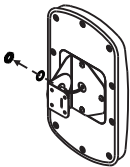


(C) Clamp to the fixed hook for a secured fit.

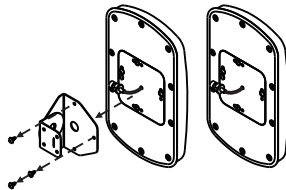


3. Mounting Installation:

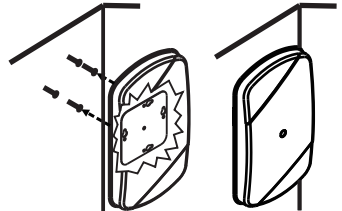
(A) Remove the antenna cable holder washer.



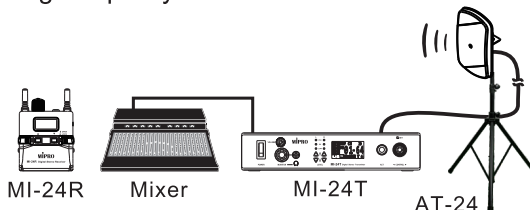
(B) Remove fixed base frame and screws.



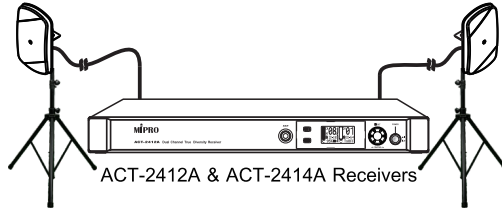
(C) Four rear hooks can be used for wall mounting.



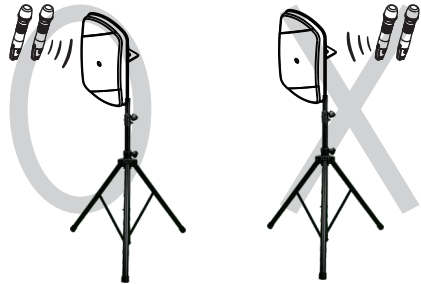
4. Transmitting Antenna Installation & Recommendation: use an antenna cable when connected to the MI-24T transmitter. Connect one end of the antenna cable to the TX/RX connector ⑦ and the other to the transmitter. The MI-24R receivers should be operating in front and facing the antenna to ensure optimal signal quality.



5. Receiving Antenna Installation & Recommendation: use an antenna cable when connected to the ACT-2412A or ACT-2414A receiver. Connect one end of the antenna cable to the TX/RX connector ⑦ and the other to the receivers. The LED indicator ① glows once the receiver is powered on and the booster is now active.



6. Mount the antenna so that it points toward the intended coverage area. The transmitters should always be operating in front and facing the antenna and not behind it.



Correct. Transmitter Microphones are facing the AT-24.

Incorrect. Transmitter Microphones are behind the AT-24.

III. AT-58 Installation Instructions

1. Back Panel Assembly:

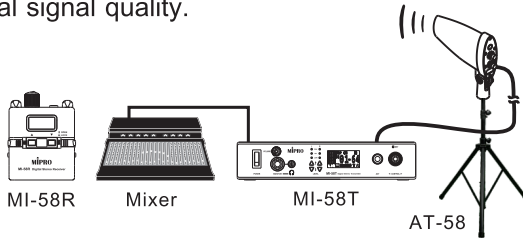
Once the back panel is fully assembled, the AT-58 can be mounted on a 35 Ø microphone stand or mounted into a wall using a MIPRO MS-90 wall-mounting bracket. Adjust the antenna to the desired position and tighten the fixed rotator.



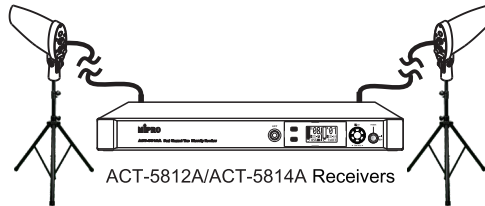
Mounted on an optional microphone stand

Wall-mounted to an optional MS-90 wall bracket

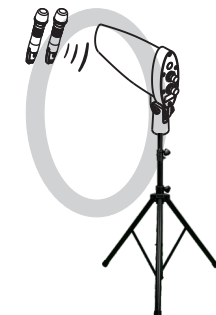
2. Transmitting Antenna Installation & Recommendation: use an antenna cable when connected to the MI-58T transmitter. Connect one end of the antenna cable to the TX/RX connector ⑦ and the other to the transmitter. The MI-58R receivers should be operating in front and facing the antenna to ensure optimal signal quality.



3. Receiving Antenna Installation & Recommendation: use an antenna cable when connected to the ACT-5812A or ACT-5814A receiver. Connect one end of the antenna cable to the AT-58 RX Only connector and the other to the receiver. The LED indicator ① glows once the receiver is powered on and the booster is now active.



4. Mount the antenna so that it points toward the intended coverage area. The transmitters should always be operating in front and facing the antenna and not behind it.



Correct.
Transmitter Microphones
are facing the AT-58.



Incorrect.
Transmitter Microphones
are behind the AT-58.

IV. Cautions

1. To prevent a short circuit, do not allow the internal antenna core cable to be in contact with the casing since the connector has 12V DC power supply.
2. RX Only antenna cable connector is designed for receivers only. DO NOT apply to the transmitter; otherwise, it may cause product damage.
3. Refer to the actual product in the event of product discrepancy.

V. General Specifications of 50Ω Coaxial Cable

Cable Type	2.4GHz Signal Loss (dB/10m)	2.4GHz Maximum Length (m)	5.8GHz Signal Loss (dB/10m)	5.8GHz Maximum Length (m)
RG-58A/U	11	10		
RG-58/U			18	10
3D-2V	9	12	12	15
5D-FB	3.3	33	5	37
8D-FB	2.6	42	3	60

Note: Characteristics of the above coaxial cables are industry standard.

The signal loss might vary depending on each brand's specifications.

Hence, for accurate calculations, always refer to specifications provided by the manufacturers.

FC & IC - ID

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES AND RSS-123 ISSUE2 OF CANADA. 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. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

Disposal

Dispose of any unusable devices or batteries responsibly and in accordance with any applicable regulations.

Disposing of used batteries with domestic waste is to be avoided!

Batteries / NiCad cells often contain heavy metals such as cadmium(Cd), mercury(Hg) and lead(Pb) that makes them unsuitable for disposal with domestic waste. You may return spent batteries/ accumulators free of charge to recycling centres or anywhere else batteries/accumulators are sold.



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By doing so, you contribute to the conservation of our environment!

MIPRO[®]
MICROPHONE PROFESSIONALS

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