Antenna Specifications

- **Bandwidth:** 470MHz to 1GHz
- **Gain:** 2～4dBi
- **Amplifier Gain:** 12±1dB (RX connector), 0dB (RX/TX connector)
- **VSWR (Voltage Standing Wave Ratio):** ≦2:1 (RX connector),
  ≦2:1 (RX/TX connector)
- **Power Consumption:** 1120mW (RX connector), 0mW (RX/TX connector)
- **Connector:** TNC female
- **Dimensions:** 120×261×32(mm)

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.

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

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User Guide

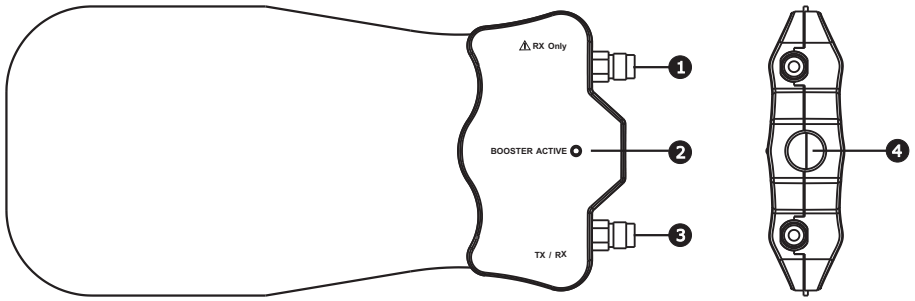
AT-70W
Wideband Transmitting & Receiving Omni-Directional Antenna

AT-70W is a professional wideband transmitting & receiving omni-directional antenna. Optimized for 470MHz～1GHz in 2～4dBi high directional effect design for environments that radiates or receives equally well in all directions. The most unique feature of AT-70W is that it can be connected to either transmitter or receiver for usage. Built-in 12dB high gain booster is designed specifically to increase the signal strength as well as the longer distance coverage and compensates for coaxial cable signal loss. The amplifier power derives from the coaxial cables connected to MIPRO AD-707 or AD-707a antenna divider or ACT-Series receivers. AT-70W is ideal for both indoor and outdoor applications.

This product has following accessories:

1. User Guide x 1

Part Names and Functions



❶ **RX Antenna Cable Connector:** The connector is installed with a 12dB-booster. It is needed to have at least 20m antenna cable and connected to the receivers or antenna dividers which offer 8V DC output power.

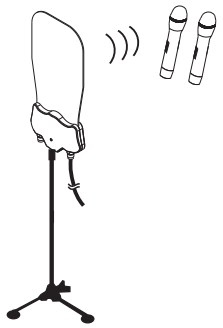
❷ **Power LED Indicator:** The LED light with the 8V DC power input from receivers and the booster will be started at the same time.

❸ **TX/RX Antenna Cable Connector:** Transmission output or antenna input connector, 0dB gain, can be connected with maximum 20m cable or antenna to transmitters or receivers.

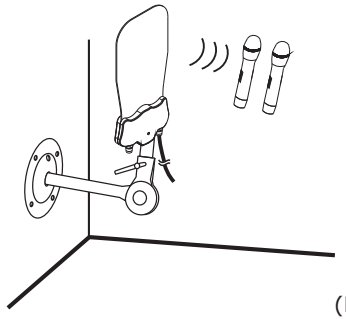
❹ **Swivel Adapter Bracket:** Can be setup on any 35mm tripod or mounted on to MIPRO's MS-90 wall-mounting kit.

Setup Instruction

- Set the base on any 35mm tripod or on top of MIPRO's MS-90 wall-mounting kit. When done, tighten the knob (see illustrations below)



(Figure 1)
(Setup on a 35mm microphone tripod)



(Figure 2)
(Setup on to of MS-90 wall-mounting kit)

- TX/RX antenna cable connector ❸ can be connected with 20m antenna cable to MI-808T transmitters, AD-808 antenna combiner. This connector can also be connected to ACT-Series receivers or AD-707 or AD-707a antenna dividers.
- RX connector ❶ has to adopt the antenna cable which the length is over 20m to connect to the ACT receiver and AD-707 or AD-707a. While switching on the receiver or antenna divider AD-707 or AD-707a, it is required to check the power indicator of AT-70W. If the indicator does not light up, it means the built-in booster is failed.
- Adjust antenna's directional angel to proper position (see illustrations below) for best performance result.

Notes

- When using the RX connector ❶ , please be aware that the inside wire of antenna cable can not touch the case itself to avoid the short circuit. This is due to the connection socket equipping with the 8V DC power.
- RX connector socket is only for the receiver and hence it can not apply to the transmitter. If doing so, it may cause the damage to the transmitter.
- The shorter length of coaxial cable is the better when it comes to connect the TX/RX socket ❸ to the receiver. It is recommended to remain the cable length within 20m to avoid the reception signal decrease too much. However the coaxial cable length has to keep over 20m when using the RX connector ❶ , or the signal saturation would occur due to the over-gain from booster then lead to the anti-interference deterioration. Hence it will improve the sensitivity by using RX connector ❶ , but meanwhile it requires being aware the anti-interference feature may deteriorate.