



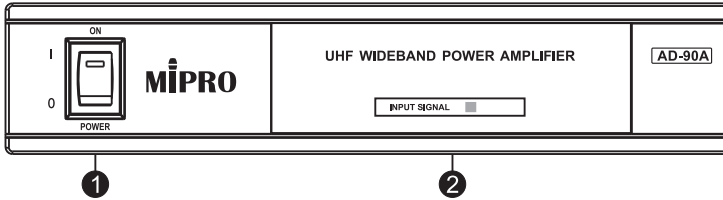
# AD-90A UHF Wideband High Power Amplifier

## User Guide



## I. Part Names. Fig. 1

### Front Panel



### Rear Panel

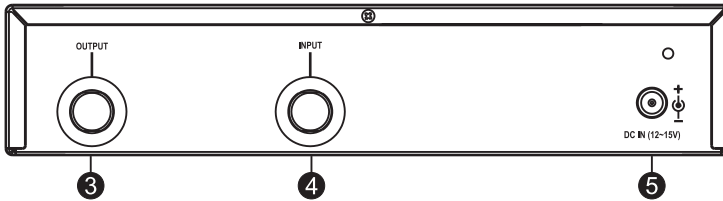


Fig. 1

- ❶ Power Switch & Indicator
- ❷ Input Signal Indicator
- ❸ Output Signal Connector
- ❹ Input Signal Connector
- ❺ DC Input Socket: Input socket for 12-15 Volt DC power. Polarity of the central pin in the socket is positive (+).

## II. Operational Instructions

### 1. Installing the Input Signal. Fig. 2:

Connect and fasten MI-909T output to the input of AD-90A with both ends of the coaxial cable. Ascertain coaxial cable length should be minimized.

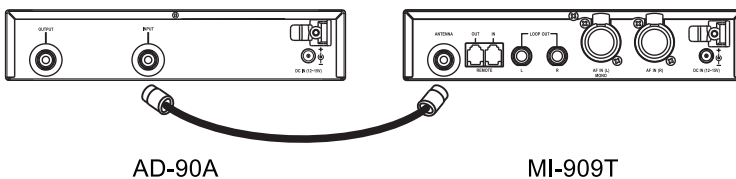


Fig. 2

## 2. Installing Receiver Antenna. Fig. 3:

Install the original coaxial antenna from the transmitter into the output connector. For best transmitting performance, ascertain the transmitter antenna and MI-909T transmitter are matched and have the same frequency band codes.



Fig. 3

## 3. Installing Extension Antenna. Fig. 4:

MIPRO AT-70W, AT-90W or AT-100 wideband directional transmit antenna can be used along with MIPRO MS-90 antenna wall mount bracket or general tripod microphone stand and connected by coaxial cable. Select quality coaxial cable and ascertain the length should be minimized and height of the antenna installation should be as high as possible and away from obstacles for optimal performance.

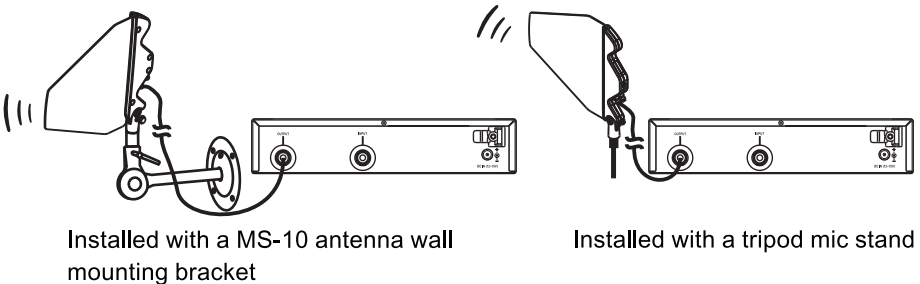


Fig. 4

4. **Power On:** The power LED indicator will be lit once power is turned on. When the input signal strength is greater than +6 dBm, the Input Signal Indicator will remain lit.

### III. Notes

1. This device works in the frequency range of 470 MHz ~ 960 MHz. Any MI-909T transmitter within this frequency range will be compatible with this device. However, ascertain the detachable transmitting antenna and MI-909T transmitter have the same frequency band code (same frequency range) for optimal transmission. We recommend it is paired with MIPRO AT-90W wideband transmitting and receiving log antenna for optimal performance.
2. When using coaxial cable, ascertain a quality 50Ω coaxial cable is used (RG-58 cable or better) and the cable length should be exceed 10 meters for the optimal performance.

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