



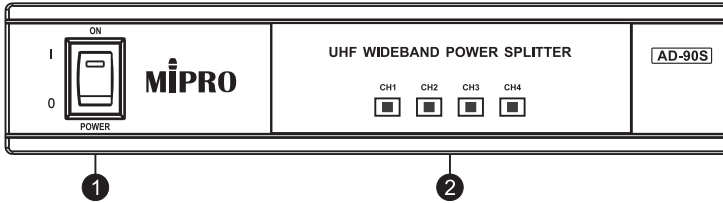
AD-90S UHF Wideband High Power Splitter

User Guide



I. Part Names. Fig. 1

Front Panel



Rear Panel

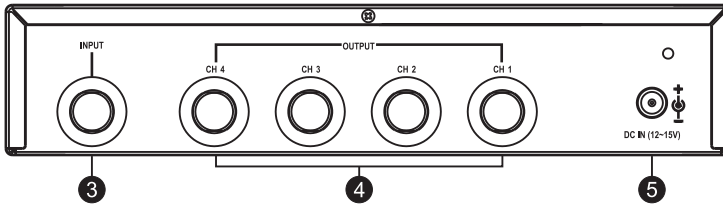


Fig. 1

- ❶ Power Switch & Indicator
- ❷ Input Signal Indicator
- ❸ Input Signal Connector
- ❹ Output Signal Connectors
- 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 AD-90S input via a coaxial cable having a TNC connector on both ends. Ascertain coaxial cable length should be minimized.

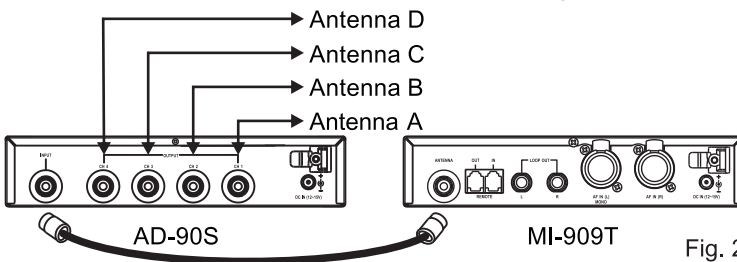


Fig. 2

2. System Application:

- (A) The AD-90S provides four sets of transmit signals for use with AT-90W in four different directions for long-range wireless transmission applications in multiple directions. Ascertain to select quality coaxial cable, and the length should be minimized. The height of the antenna installation should be as high as possible and away from obstacles, as shown in Fig. 3.

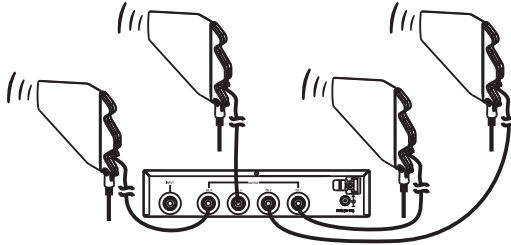


Fig. 3

- (B) When the antenna cable between AD-90S and external antenna is too long, AD-90A wide-band high-power amplifier can be used to enhance the transmit power of the signal, which is suitable for outdoor rugged terrain or multiple indoor floors. In special places such as large-area audio broadcasting, the transmission quality and signal stability of long distances in various regions can be greatly improved, as shown in Fig. 4.

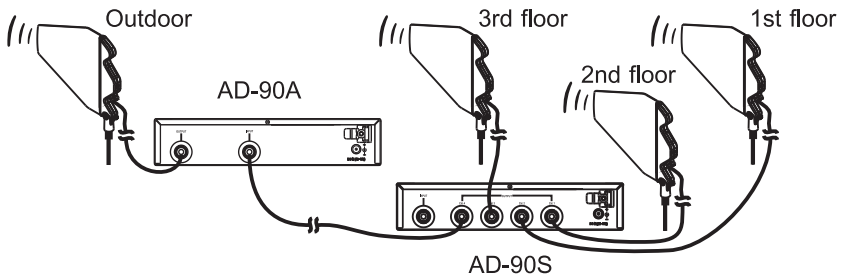


Fig. 4

3. Power On: The power LED indicator will be lit once power is turned on. When the input signal strength is greater than +3 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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