## Specifications

1. Frequency Range: 470~960 MHz
2. Attenuation: 3.5 dB (typical)
3. Isolation: 20 dB (typical)
4. Impedance: 50 Ω
5. Maximum Volt/Current: 50VDC/1.5A
6. Connector: TNC x 3
7. Dimension (mm): 90.3 (L) x 55.4 (W) x 25 (H)
8. Weight: Approx. 105 g

**NOTE:**
AT-90 = MIPRO Unidirectional Antenna with Booster
MP-10 = MIPRO Booster Relay Power Supply
AT-70B = MIPRO Antenna Signal Booster
RX1 & RX2 = MIPRO Wireless Receivers

## 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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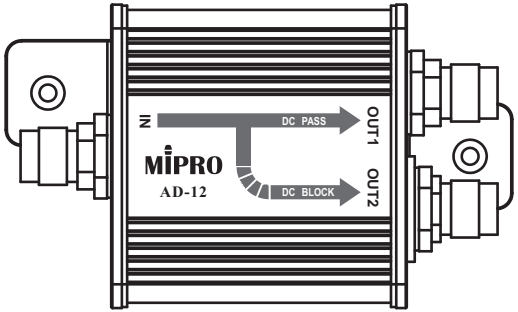
MIPRO®



# **AD-12** Passive Divider/Combiner

# User Guide

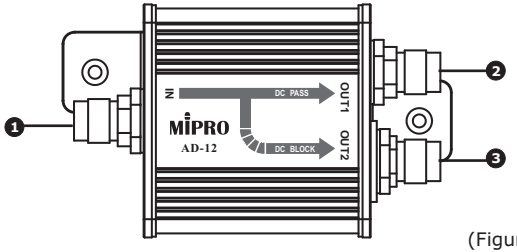



Please read this guide thoroughly before operating the unit

## KEY FEATURES

- AD-12 divides a high frequency signal into two signal outputs or combines two signals into one signal output. Simultaneously, it provides bias voltage to boosters in post stage. This is a necessary accessory to set up antenna systems.
- AD-12 encompass isolated grounding design to prevent multiple receivers operation from current noise due to ground loop problem.

## PART NAMES AND FUNCTIONS




(Figure 1)

❶ **1-to-2 Input Socket / 2-in-1 Output Socket:**
RF input socket for dividing one signal into two signals; RF output socket for combining two signals into one signal.

❷ **1-to-2 Output Socket / 2-in-1 Input Socket (DC PASS):**
RF output socket for dividing one signal into two signals; RF input socket for combining two signals into one signal. This socket is "DC PASS" with socket.

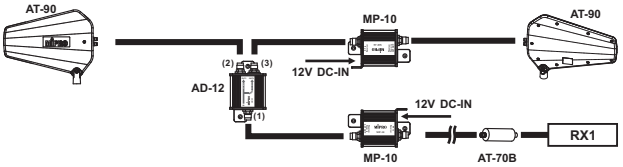
❸ **1-to-2 Output Socket / 2-in-1 Input Socket (DC BLOCK):**
RF output socket for dividing one signal into two signals; RF input socket for combining two signals into one signal. This socket is "DC BLOCK" and ground-isolation with socket.

AD-12 Passive Divider/Combiner

## AD-12 APPLICATION

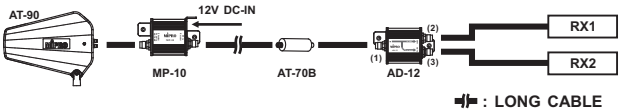
**Application 1**

**Power Supply for Combining Antennas**




**Application 2**

**Power Supply for Dividing Antennas**




**Application 3**

**Application for free of Signal Drop-outs in an Expanded Area**