

# AT-90W Wideband Transmitting & Receiving Log Antenna

## Introduction

The AT-90W is a bi-functional log antenna for professional receiving and transmitting applications. Optimized for 470 ~ 1000 MHz, it is compatible with US and EU new telecom regulations. It has a 4 ~ 6 dBi gain which is ideal for any installation requiring specific directionality. The wideband AT-90W can be easily distinguished from its predecessor, the AT-90, by its new "W-Shaped" design.

The AT-90W has two input connectors: "TX/RX" connector can be connected to a transmitter or receiver, however, connection to a short coaxial cable is recommended when connected to a receiver. "RX" connector can be connected to a receiver only and has a built-in 0 ~ 12 dB  $\pm$  1 dB gain-adjustable booster, thus providing extended reception range and compensating for the signal loss of coaxial cable to improve reception range and signal quality.

The power of a gain-controllable booster can be provided by a MIPRO AD-708 antenna divider or any MIPRO ACT Series receiver which provides bias by adding an AD-702 auto gain controller on their antenna connectors. It is water resistant and ideal for both outdoor and indoor applications.

## Accessories

MS-30	Tripod Microphone Stand
MS-90	Wall Mount

## Technical Specifications

Frequency Range	UHF 470 – 1,000 MHz
Antenna Gain	4 – 6 dBi
3-dB Beam Width	75° Vertical; 130° Horizontal
Booster Gain	RX Connector: 0 – 12 dB gain controllable; TX/RX Connector: 0 dB
VSWR	< 2:1
Voltage Range of RX Connector	8 – 15 V DC
Power Consumption	RX Connector: 1.3 W / 8 V DC; TX Connector: 0 mW
Impedance	50 $\Omega$
Connector	2 $\times$ TNC female
Dimensions (W $\times$ H $\times$ D)	319 $\times$ 270 $\times$ 25 mm   12.5 $\times$ 10.6 $\times$ 1"
Net Weight	Approx. 430 g   15.2 oz



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