

AT-100 Wideband Circularly Polarized Antenna

Introduction

Providing an optimized solution for both transmitting and receiving RF signals throughout the UHF bandwidth, the AT-100 has a distinctive appearance and is patented in multiple countries.

Antenna features affect transmission range, stability and anti-interference performance. Therefore, the antenna is a vital component in any system installation, especially in complicated and demanding RF environments for wireless microphones and wireless monitoring systems. It greatly improves signal stability and reduces interference and signal drop-outs caused by polarization problems.

The AT-100 is an ideal antenna system for providing the utmost signal stability. The front area is the main focus of antenna direction for either vertical or horizontal polarization. The AT-100 circularly polarized antenna can effectively reduce the polarization loss of the antenna to improve signal strength. It is the optimal solution for the 470 ~ 1000 MHz bandwidth with a 6 ~ 8 dBi antenna gain and is certified to meet the latest CE/FCC new telecom regulations.

The AT-100 has two built-in signal connectors: The "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. The "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 a coaxial cable to improve reception range and signal quality.

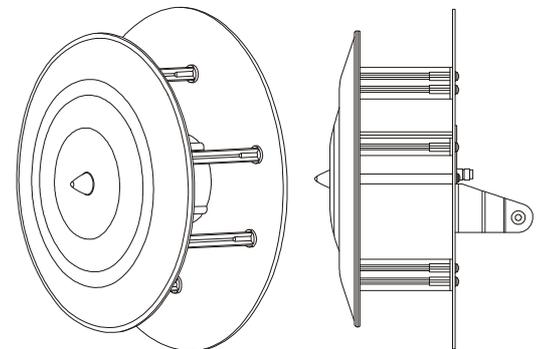
The power of the gain-controllable booster can be provided by a MIPRO AD-708 antenna divider or any MIPRO ACT Series receiver which provides bias by adding an AD-702 auto gain controller on their antenna connectors. Waterproof and weather resistant, the AT-100 is ideal for both outdoor and indoor applications.

Accessories

MS-30	Tripod Microphone Stand
MS-90	Wall Mount

Technical Specifications

Frequency Range	UHF 470 – 1,000 MHz
Antenna Gain	6 – 8 dBi
Polarization	Circular polarization
3-dB Beam Width	72°
Booster Gain	RX Connector: 0 – 12 dB gain adjustable; 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 Ω
Connector	2 \times TNC female
Dimensions (W \times H \times D)	350 \times 350 \times 225 mm 13.8 \times 13.8 \times 8.8 "
Net Weight	1.5 kg 3.3 lbs



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