

AT-90A

UHF Wideband Active Directional Antenna

FEATURES

- Wideband UHF 470–1000 MHz coverage supports various wireless microphone system applications.
- Directional reception characteristics help focus RF signal coverage while reducing side and rear interference for improved multi-channel system stability.
- Built-in low-noise, wideband linear RF amplifier compensates for signal loss caused by coaxial cable runs to improve RF signal transmission stability.
- Four-position gain selector provides +12 dB, +6 dB, 0 dB, and -6 dB settings for flexible adjustment according to different RF environments and installation conditions.
- TX/RX shared design allows use as a TX antenna when no bias power is applied.
- High dynamic range amplifier design helps reduce RF overload and intermodulation interference in multi-channel wireless systems.
- RF overload LED indicator allows quick confirmation of RF signal overload conditions.
- $\pm 45^\circ$ adjustable mounting angle allows flexible positioning for optimal RF reception performance.
- IP65-rated enclosure is suitable for indoor and outdoor installation applications.
- Compatible with microphone stands and mounting brackets for flexible installation applications.



SPECIFICATIONS

Frequency Range	UHF 470 – 1000 MHz
Reception Pattern	Directional
Antenna Gain	4–6 dBi
3 dB Beam Width	75° Vertical / 130° Horizontal
Gain Settings	+12 dB / +6 dB / 0 dB / -6 dB
RF Amplifier	Low-noise wideband linear amplifier, +30 dBm IIP3
RF Overload LED	Activates at -6 dBm
Impedance	50 Ω
VSWR	$\leq 2:1$
Connector Type	TNC Female
Power Supply	DC 8–18 V bias via coaxial cable, 0 dB gain without bias power
Mounting	Compatible with microphone stands and mounting brackets
Angle Adjustment	$\pm 45^\circ$
Waterproof Rating	IP65
Dimensions	313 × 270 × 29 mm (W × H × D)
Weight	Approx. 433 g