



VHF UHF Broad Band Discone Antenna

AWD-100-3000

100-3000 MHz

2 dBi Gain

Multi-Role Design & Continuous Broadband Performance: The AWD-100-3000 is an ultra-wideband VHF/UHF discone antenna engineered to provide seamless omni-directional coverage across the 100–3000 MHz frequency range with a 2 dBi gain. Unlike conventional antennas that restrict transmission to selective sub-bands, this high-efficiency system is fully capable of transmitting and receiving across the entire 100–3000 MHz spectrum simultaneously. This continuous broadband capability makes it an ideal single-antenna solution for multi-role base stations, tactical spectrum monitoring, and signal jamming applications, eliminating the logistical need for multiple dedicated antennas.

All-Weather Construction & Rapid Field Setup: The AWD-100-300 built to endure severe environmental conditions, this rugged, all-weather antenna requires zero field tuning or technical adjustments. The cone and disc hubs are crafted from ultra-corrosion-resistant 6063T6 architectural anodized aluminum alloy, reinforced by marine-grade stainless steel fasteners. For total protection against harsh elements, the antenna termination and feed cable are completely enclosed within the heavy-duty mounting pipe, and the entire assembly is finished in a protective Military Olive Green powder coating. Designed with portability in mind, the compact unit ships with removable disc and cone elements, allowing for fast, tool-free field installation using specialized mounting hardware.

Environmental Protection: The entire metallic assembly of AWD-100-300 antenna is finished with a specialized, epoxy-based powder coating in military olive green, offering high-durability protection against UV degradation, corrosive gases, coastal salt spray, acid rain, and abrasive desert sandstorms. This compact, maintenance-free discone antenna is engineered to deliver reliable, long-term survivability for fixed-station infrastructure and mobile deployable defense communication networks.



Electrical Specifications:

Frequency Range	100-3000 MHz.
Gain - Typical	2 dBi.
Bandwidth	Entire 100-3000MHz Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni-Directional
Vertical Beam-width –Half Power Points.	72 Degrees
VSWR – Better Than	2.5:1
RF Power Handling Capacity	500 Watts
Input Termination	N-Female

Mechanical Specifications:

Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	High Grade Stainless Steel
Weight Approx	6 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	0.9 Meter
Shipping Length	1.0 Meter
No. of Disk & Cone Elements	12 & 9 Nos.
Max. Mount Pipe Diameter	52mm (2 Inches)
Corrosion Protection	Epoxy-Based Powder Coating

Environmental Specifications:

Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Please contact us for further information like Azimuth & Elevation radiation patterns, Image and frequency Vs VSWR graph.