



VHF UHF Ultra Wide Band Discone Antenna

AWD-20-3000

20-3000 MHz

2 dBi Gain

High-Performance Design & Tactical Applications: The AWD-20-3000 is an ultra-wideband passive discone antenna engineered for continuous omni-directional coverage across an exceptionally wide frequency spectrum of 20–3000 MHz. Featuring a 2 dBi gain and low VSWR throughout its entire operational band, this high-efficiency antenna seamlessly handles both transmitting and receiving functions, making it an ideal single-antenna solution for base stations, spectrum monitoring, and signal jamming applications. Built to survive extreme environments, the antenna complies with MIL-STD-810G military standards and features an epoxy-based powder coating on all metallic surfaces that provides comprehensive protection against UV radiation, acid rain, coastal salt spray, and desert sandstorms.

Rugged Construction & Rapid Deployment: The AWD-20-3000 constructed for all-weather durability, this compact and lightweight antenna requires absolutely no field tuning or manual adjustments. The cone and disc hubs are crafted from premium 6063T6 ultra-corrosion-resistant architectural aluminum alloy, while all fasteners and hardware are made of marine-grade 304 stainless steel. To ensure complete weatherproofing, the antenna termination and feed cable are fully enclosed within the mounting pipe. The entire system is finished in a protective olive green powder coating and features a highly packable design with removable elements, allowing for easy shipment and rapid installation in the field using the included specialized mounting hardware.

Removeable Elements: AWD-20-3000 optimized for rapid tactical deployment, the antenna's modular architecture includes removable cone and disc elements to streamline transport and logistics, while its integrated design completely encloses the N-Type RF termination and coaxial feed line within the mounting mast for absolute weatherproofing.

Electrical Specifications:

Frequency Range	20 - 3000 MHz.
Gain - Typical	2 dBi
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni-Directional
Vertical Beam-width –Half Power Points.	76 Degrees Typical
VSWR – Better Than	3:1
RF Power Handling Capacity	500 Watts (Higher Optional)
Input Termination	N-Female

Mechanical Specifications:

Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	High Grade Stainless Steel
Weight Approx	35 Kgs.
Wind Rating	150 Km/Hr.
Overall Length	4 Meters
No. of Disk/Cone Elements	12/9 Nos.
Shipping Length	2.7 Meters
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.

