



Wide Band Shipboard Mount Discone Antenna

WD-75-3000

75-3000 MHz

2 dBi Gain

High-Efficiency Wideband RF Performance & Spectrum Versatility: The WD-75-3000 is an ultra-wideband, **heavy-duty fully-welded** shipboard discone antenna engineered for high-efficiency omni-directional RF communication, spectrum monitoring, and electronic warfare (jamming) applications. Operating seamlessly across a broad **75–3000 MHz** frequency range with a 2.15 dBi gain, this passive discone antenna maintains an exceptionally low VSWR across the entire operational spectrum, **completely eliminating the need for multiple antenna arrays**. Its wide vertical beamwidth ensures robust, **uninterrupted signal** propagation for critical ground-to-ground, maritime, and ground-to-air (aerospace) communication links. By providing uniform multi-band coverage in a **single consolidated footprint**, it serves as an ideal high-power broadband base station antenna for high-density naval and tactical communication networks.

Ruggedized Marine-Grade Engineering & Environmental Survivability:

Built to withstand the most punishing deployment environments, the WD-75-3000 features a fully welded discone structure fabricated from Mil-grade **6063-T6 architectural anodized aluminum** alloy. Specifically optimized for **oceanic and arctic applications**, its ultra-rugged design delivers extreme resilience against severe vibration and ice loading. All internal electrical junctions are sealed within a **ruggedized protective radome**, while the external metal surfaces feature an advanced corrosion-resistant powder coating that shields the system from UV radiation, salt spray, acid rain, and desert sandstorms. For maximum weatherproofing, the RF termination is entirely enclosed within the heavy-duty mounting pipe, and all structural hardware is constructed from **316 marine-grade stainless steel**, delivering a completely **maintenance-free, zero field-tuning** antenna solution.



Electrical Specifications:

Frequency Range	75 - 3000 MHz.
Gain - Typical	Unity (2.15 dBi.)
Bandwidth	Entire 75-3000MHz Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni-Directional
Vertical Beam-width –Half Power Points.	78 Degrees
VSWR – Better Than	2.5:1
RF Power Handling Capacity	500 Watts (1.5KW Optional)
Input Termination	N-Female

Mechanical Specifications:

Major Materials Used	6063T6 Aluminum Alloy
Mounting Hardware -Materials	High Grade Stainless Steel
Weight Approx	7.5 Kgs. with Brackets
Wind Rating	200 Km/Hr.
Overall Length	1.4 Meter (55 Inches)
Shipping Length	1.45 Meter (57 Inches)
Mounting Type	Mast or NATO 4 Holes Flange
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.