ANTENNA EXPERTS

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Model # AWD-20-500 20 – 500 MHz. 2.15dBi Gain

INSTALLATION MANUAL – WIDE BAND DISCONE ANTENNA

NOTICE:

Installation, maintenance or dismounting of the antenna system requires qualified and experienced personnel. Antenna Experts antenna Installation instructions have been prepared and are meant for skilled personnel only.

Antenna Experts disclaims any liability or responsibility as a result of improper or unsafe installation practices.

MATERIALS:

Following materials are used for the fabrication of Antennas and its accessories.

Radiating Elements Materials:	6063T6 Powder Coated Aluminum
Cone Elements:	6063T6 Powder Coated Aluminum
Disc Elements:	6063T6 Powder Coated Aluminum
Mounting Pipe:	6063T6 Powder Coated Aluminum
Disc and Cone Hub:	Powder Coated Brass
Fasteners:	All Marine Grade Stainless Steel.
Connector:	Silver Plated Brass body with Gold plated pin.
Insulator:	Teflon.

PACKING LIST:

Sl. No.	DESCRIPTION	QUANTITY
1.	Ground Plane Body (Cone Hub), Disc Hub fitted with mounting pipe.	1 Each.
2.	Cone Elements (Longer).	8 Nos.
3.	Disc Elements (Smaller).	8 Nos.
4.	Mounting clamps complete with all accessories.	2 Nos.
5.	Installation Instruction.	1 Each.
6.	Test Report.	1 Each.

INSTALLATION INSTRUCTIONS:

1. The discone antenna when packed comes with Cone and Disc elements removed from the antenna body for ease of packing and shipment.
2. Unpack the discone Antenna and it's accessories from the packing box.
3. Connect the 8 Nos. of Disc (smaller) elements to the Disc Hub and 8 Nos. of Cone (longer) elements to the Ground Plane Body (Cone Hub).
4. N-Female termination of the discone antenna is fitted at the bottom end, enclosed inside the mounting pipe for complete weather protection. Connect the N-Male connector of the coaxial cable to the N-Female termination of discone antenna.
5. The mounting hardware is suitable to mount the antenna on 1.5 Inches to 2 Inches (38-51mm) outer diameter pipe. Install the discone antenna on the top of the mast by using the two mounting clamps supplied with antenna and tighten all nuts and bolts.
6. Secure the flexible coaxial cable with cable ties.
7. Make sure that the frequency of the Transmitter / Receiver should be within the frequency band marked on the antenna. **Do not operate the antenna other than the specified frequency band of the antenna.**
8. Take VSWR reading by using through-line RF Power meter. The VSWR should never exceed 1:3. Keep the record of VSWR measurements for future reference.
9. Qualified, skilled personnel to verify proper installation and maintenance should inspect the antenna system once a year.