



# ANTENNA EXPERTS

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Model AC3-150      134 – 174 MHz.      3dBi. Gain

## INSTALLATION MANUAL – OMNI DIRECTIONAL COLLINEAR 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.

Support pipe:	6063T6 Aluminum.
Radiating Elements:	Brass
Radome:	ABS
Mounting Hardware:	All stainless steel.
Fasteners:	All stainless steel.
Connector:	Silver plated brass body & Gold plated pin.
Insulator:	TEFLON.

### PACKING LIST

<u>Sl. No.</u>	<u>ITEM/DESCRIPTION</u>	<u>QUANTITY</u>
1.	Antenna Omni-directional Collinear Complete in assembled condition	1 Each.
2.	Mounting Clamp to Mount the Antenna.	2 Nos.
3.	Installation Manual.	1 Each.
4.	Test Report.	1 Each.

### INSTALLATION INSTRUCTION:

1. Unpack the Collinear antenna and mounting hardware from the packing box and remove the plastic sleeve/tube from the fiberglass radome.
2. Install the Collinear Antenna on the top of the mast, by using two mounting clamps, supplied with the antenna.
3. The mounting clamps are suitable to mount the antenna on 25 to 45 mm O.D. round pipe.
4. Take extreme care during Installation that the ABS plastic portion of antenna must be clear/above from any metallic structure like mounting pipe/mast.
5. Connect the antenna feeder cable to the N-Female connector (provided at the bottom) of the Collinear antenna and secure it with cable ties.
6. Seal the connector against moisture ingress with a sealing tape.
7. Take VSWR reading by using through-line RF Power meter. The VSWR should never increase 1:1.5.
8. Keep the record of VSWR measurements for future reference.
9. Tighten all nuts and bolts.