



# ANTENNA EXPERTS

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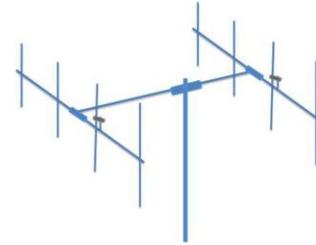
Model ADY-75

66 – 88 MHz.

13dBi. Gain

## VHF DUAL STACKED YAGI ANTENNA

**DESIGN FEATURES:** Antenna Experts dual stacked yagi antenna design reflects innovative modern antenna construction. The dual stacked yagi antenna uses special feed which eliminates the use of folded dipole. The dual yagi antenna when packed comes with elements removed from the antenna boom for ease of packing and transportation. This yagi antenna can be assembled at site with simple hand-tools. The dual stacked yagi antenna is supplied with a stacking pipe and phasing harness as standard accessories.



**CONSTRUCTIONS:** Radiating elements, supporting booms and adjoining metal castings of dual yagi antenna have been constructed in high quality aluminum alloys to prevent corrosion. The unique design of the yagi antenna feed which works as matching device to keep the VSWR low resulting in increased efficiency of the dual yagi antenna. The antenna can be mounted to obtain any horizontal or vertical polarization. Similarly the antenna can be stacked either horizontally or vertically to control the beam-width in desired plane.

### **ELECTRICAL SPECIFICATIONS:**

Frequency Range	66 - 88 MHz.
Gain	13 dBi.
Bandwidth	5 MHz.
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms.
Horizontal Beam-width –Half Power Points	40 Degrees (if stacked horizontally)
Vertical Beam-width –Half Power Points	60 Degrees (if stacked horizontally)
Horizontal Beam-width –Half Power Points	80 Degrees (if stacked vertically)
Vertical Beam-width –Half Power Points	30 Degrees (if stacked vertically)
Front to Back Ratio	18 dB.
VSWR	1.5 : 1
RF Power Handling Capacity	250 Watts.
Input Termination	N-Female

### **MECHANICAL SPECIFICATIONS:**

Mounting Hardware	Stainless Steel
Gross Weight	13 Kgs.
Wind Rating	180 Km/Hr.
Overall Length	2.7 Meters
Shipping Length	2.75 Meters
Support Boom-Materials -Cross Section-Outer Diameter	Aluminum-Square Tube-25 mm
Elements-Materials- Cross Section-Outer Diameter	Aluminum-Round Tube-19 mm
Maximum Mount Pipe Diameter	52mm ( 2 Inches )

### **ENVIRONMENTAL SPECIFICATIONS:**

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

Note: All information contained in the datasheet is subject to change without any prior notice.