



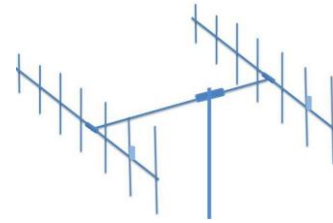
# ANTENNA EXPERTS

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Model ADY-450 400 – 512 MHz. 16dBi. Gain

## UHF 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. This ADY-450 dual antenna system comes in pre-assembled design with permanently fixed elements in to the support boom and does not require any field tuning or adjustments. The dual stacked yagi antenna is supplied with a stacking pipe and phasing harness as standard accessories.



**CONSTRUCTIONS:** Radiating elements and supporting booms 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	400 - 512 MHz.
Gain	16 dBi.
Bandwidth	15 MHz.
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms.
Horizontal Beam-width –Half Power Points	25 Degrees (if stacked horizontally)
Vertical beam-width –Half Power Points	40 Degrees (if stacked horizontally)
Horizontal Beam-width –Half Power Points	50 Degrees (if stacked vertically)
Vertical Beam-width –Half Power Points	20 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	8 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	1.6 Meters
Shipping Length	1.7 Meters
Number of Yagi Booms	2 Nos.
Support Boom-Materials-Cross Section- Outer Diameter	Aluminum -Round Tube-25 mm
Elements - Materials - Cross Section- Outer Diameter	Aluminum -Round Tube-12.7 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.