



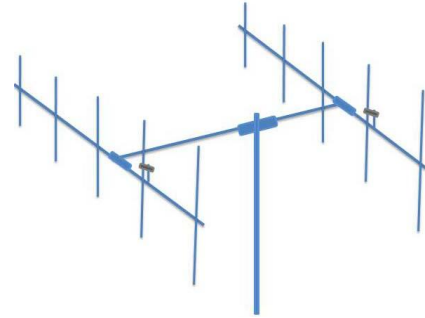
ANTENNA EXPERTS

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Model # ADY-156-162 156 – 162 MHz. 15 dBi. Gain

VHF Marine Band Dual Stacked Yagi Antenna

DESIGN FEATURES: Antenna Experts dual stacked yagi antenna design reflects innovative modern antenna construction and designed to **increase 3dBi gain in same direction**. 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, power divider and phasing harness cable as standard accessories. A cross-over mounting bracket is also supplied with the antenna to mount the central stacking pipe of dual antenna on mast/tower. Antenna Experts yagi antennas are highly suitable for GMDSS communication equipments used to increase maritime safety and make it easier to rescue distressed ships, boats and aircraft.



CONSTRUCTIONS: Radiating elements and supporting booms of dual yagi antenna have been constructed in high quality 6063T6 ultra corrosion resistant architectural aluminum alloys to prevent corrosion. The mounting hardware of dual stacked yagi antenna is made of type 316 marine grade stainless steel. 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 is supplied with powder coating finish to protect against severe environmental conditions. 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	156 - 162 MHz.
Gain	15 dBi.
Bandwidth	6 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	10 Kgs.
Wind Rating	190 Km/Hr.
Overall Length	2.1 Meters
Shipping Length	2.2 Meters
Number of Yagi Booms	2 Nos.
Support Boom-Materials-Cross Section- Outer Diameter	Aluminum -Square Tube-25.4 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 100% RH

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