



# ANTENNA EXPERTS

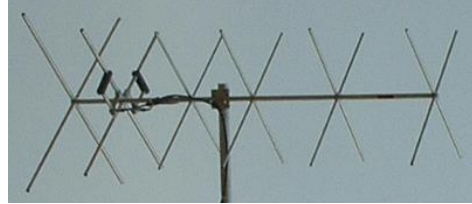
E-mail: [info@antennaexperts.in](mailto:info@antennaexperts.in) Website: [www.antennaexperts.in](http://www.antennaexperts.in)

Model CY-450 330 – 512 MHz. 11 dBic. Gain

## CIRCULAR POLARIZED CROSS ELEMENTS YAGI ANTENNA

**DESIGN FEATURES:** CY-450 rugged, all weather crossed elements yagi antenna is designed for circular polarization. The phase shifter cable and harness cable comes with impedance matched molded joints for low VSWR and protection against weather. The Yagi antenna can be configured to work as RHCP or LHCP selectable by inter-changing the 90 Degrees delay harness cable.

**CONSTRUCTIONS:** The Yagi Antenna uses a gamma matching feed, eliminating the use of folded dipole. The antenna termination uses N-Female connector fixed on the antenna dipole. The mounting hardware supplied is of stainless steel fasteners. When the antenna is mounted on the rotator, the crossed elements array makes an angle of 45 degrees with respect to horizontal plane. A crossed member will be supplied with the array for necessary mounting arrangement on a Rotator.



### ELECTRICAL SPECIFICATIONS:

Frequency Range	330 - 512 MHz.
Gain	11 dBic.
Bandwidth	15 MHz.
Polarization	LHCP or RHCP (Field Selectable)
Input Impedance	50 Ohms.
Horizontal Beam-width –Half Power Points	55 Degrees
Vertical Beam-width –Half Power Points	45 Degrees
Axial Ratio	2 dB.
Front to Back Ratio	16 dB.
VSWR – Equal to or better than	1.5 : 1
RF Power Handling Capacity	250 Watts.
Input Termination	N-Female

### MECHANICAL SPECIFICATIONS:

Mounting Hardware	Stainless Steel
Gross Weight	4 Kgs.
Wind Rating	180 Km/Hr.
Overall Length	1.55 Meters
Shipping Length	1.6 Meters
Number of Yagi Booms	1
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.