

VHF band Yagi Antenna

OY-EN-V8P

136-174MHz, N-Female

- Covering 136-174MHz VHF Public Safety Band Yagi antenna
- Suitable for donor antenna and aluminum finished
- Supporting antenna tilt adjustment with $\pm 15^\circ$



Electrical Specification

Product Model	OY-EN-V8P
Frequency (MHz)	136-174
Gain (dBi)	8.0 $\pm$ 1.0
Polarization	Vertical or Horizontal(optional)
Beamwidth Horizontal (°)	105.0 $\pm$ 10.0
Beamwidth Vertical (°)	65.0 $\pm$ 10.0
Front to Back Ratio (dB)	≥ 12
VSWR	≤ 2.2
Average Power, max (W)	50
Impedance (ohm)	50

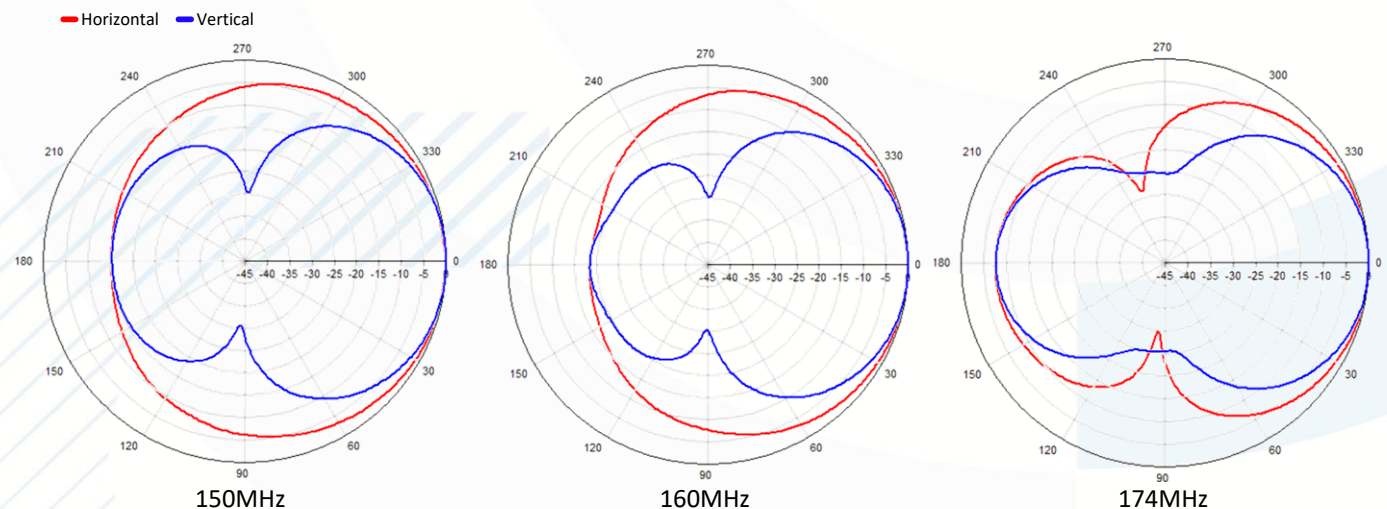
Mechanical Specification

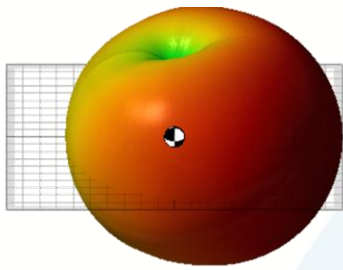
Dimension Diameter, height (in/mm)	29.9x42.9x3.2 / 760.0x1090.0x80.0
Weight (lb./kg)	2.0 / 0.9
Shipping Dimension(in/mm)	32.7x46.1x5.7 / 830.0x1170.0x145.0
Shipping Weight(lb./kg)	9.7 / 4.4
Material	Aluminum finished, White
Diameter of the pole mounting pole (in/mm)	$\varnothing 1.7 - 2.9 / \varnothing 42 - 74$
Antenna Tilt adjustment (°)	± 15
Maximum Wind Speed(mph)	134
Connector type	N-Female

Environment & Compliance

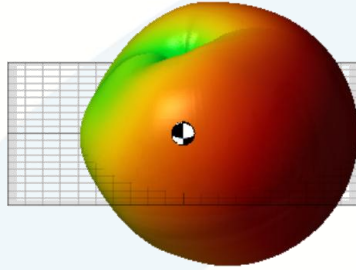
Application	Outdoor
Operating Temperature	-40°C to +70°C
Relative Humidity	Up to 95%
RoHS	Compliant
Environment	
Lightening protection	Direct Grounding

Antenna Pattern

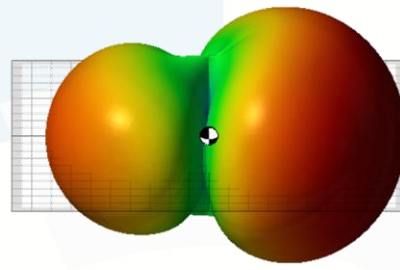




150MHz



160MHz

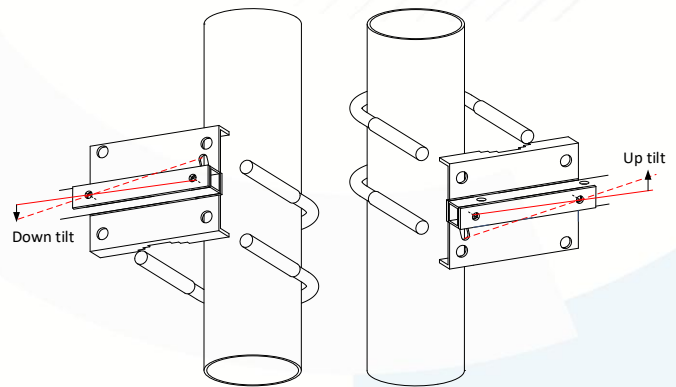
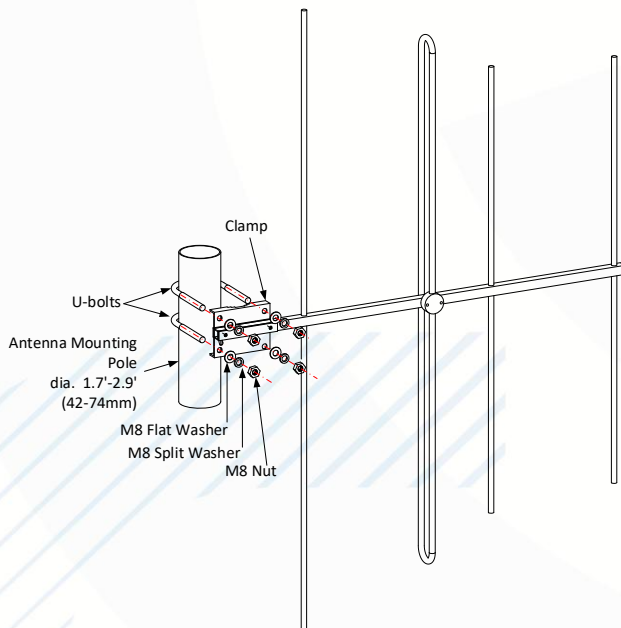


174MHz

Mechanical Drawing and Installation Guide

1. Installation Instruction

- The clamp is preinstalled with the main antenna frame (vertical polarization as default).
- Fasten two bolts on the antenna frame after ensuring the antenna direction and tilt angle.
- Fasten two U-bolts for the main antenna frame and the pole.
- Connect the equipment and the antenna with their respective connectors.
- Ensure that all connections are waterproof.
- Fasten the cables of the antenna and the equipment.



2. Packing list

Item	Qty
Antenna main frame including the clamp	1
U-bolt	2
M8 Flat Washer	4
M8 Split Washer	4
M8 Nut	4
Installation Instruction. Hard copy	1