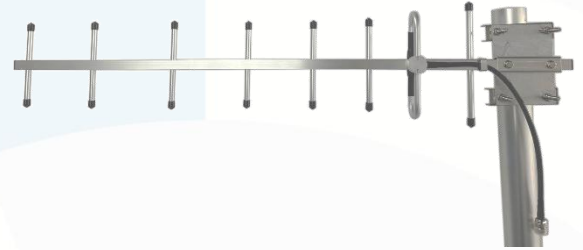


# Outdoor Directional Yagi Antenna

## OY-MN-V11P

746-896MHz, N-Female

- Covers the 746–896 MHz Public Safety band
- High-gain, narrow-beam design with 8 antenna elements
- Ideal for donor antenna applications with durable aluminum finish
- Built-in support for antenna tilt adjustment and high wind-rated design



### Electrical Specification

|                          |                                          |
|--------------------------|------------------------------------------|
| Product Model            | OY-MN-V11P                               |
| Frequency (MHz)          | 746-896                                  |
| Gain (dBi)               | 11.2                                     |
| Polarization             | Linear / Preinstalled with Vertical Pol. |
| Beamwidth Horizontal (°) | 48                                       |
| Beamwidth Vertical (°)   | 40                                       |
| VSWR                     | ≤ 1.5                                    |
| Front to Back Ratio (dB) | ≥ 15                                     |
| Average Power, max (W)   | 100                                      |
| Impedance (ohm)          | 50                                       |

### Mechanical Specification

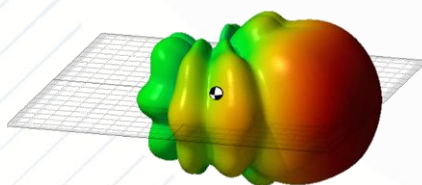
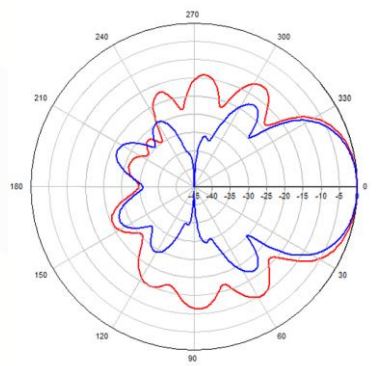
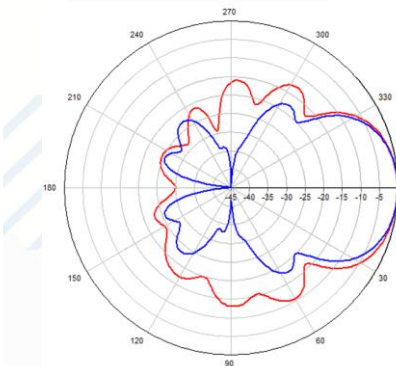
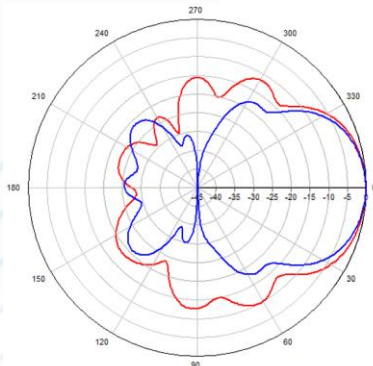
|                                            |                                   |
|--------------------------------------------|-----------------------------------|
| Dimension Diameter, height (in/mm)         | 33.5 x 7.5 x 2.0 / 850 x 190 x 50 |
| Weight (lb./kg)                            | 0.9 / 0.4                         |
| Shipping Dimension(in/mm)                  | 35.6 x 9.1 x 2.4 / 905 x 230 x 60 |
| Shipping Weight(lb./kg)                    | 1.8 / 0.7                         |
| Radome Material & color                    | Aluminum finished, White          |
| Diameter of the pole mounting pole (in/mm) | Ø 1.2-2.6 / Ø30-65                |
| Antenna Tilt adjustment (°)                | ± 30° max                         |
| Maximum Wind Speed(mph)                    | 186                               |
| Connector type                             | N-Female                          |

### Environment & Compliance

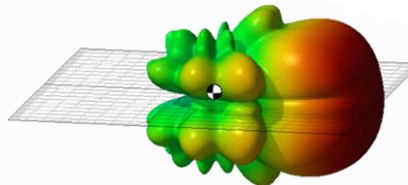
|                       |                  |
|-----------------------|------------------|
| Application           | Outdoor          |
| Operating Temperature | -40°C to +60°C   |
| Relative Humidity     | Up to 95%        |
| RoHS                  | Compliant        |
| Environment           |                  |
| Lightening protection | Direct Grounding |

### Antenna Pattern

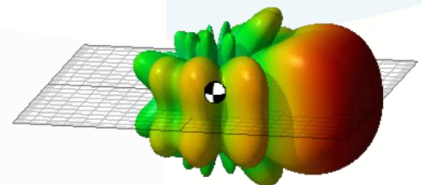
Horizontal Vertical



746MHz



821MHz

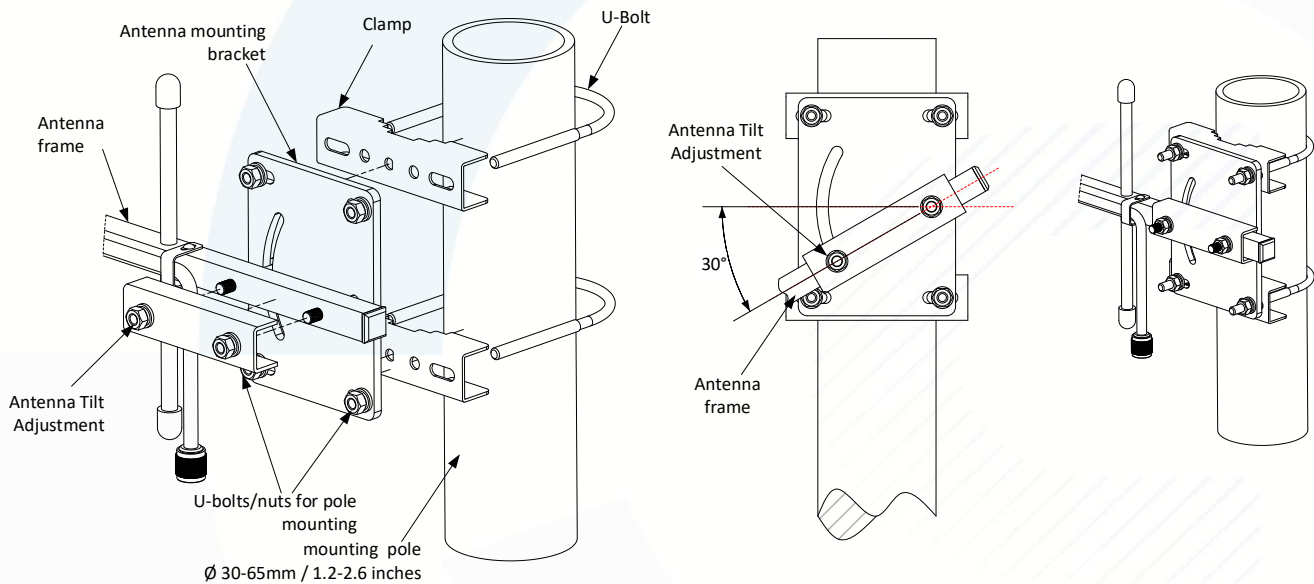


896MHz

## Mechanical Drawing and Installation Guide

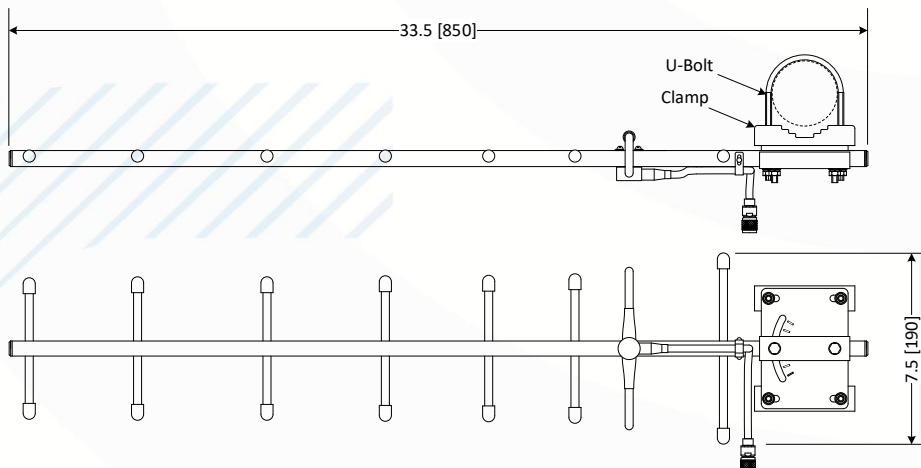
### Installation Instruction

- The antenna bracket and the antenna frame are pre-assembled for vertical polarization(default)
- Put the antenna bracket and the mounting pole according to the position and direction shown in the drawing
- Fasten two U-bolts and clamp the antenna bracket to the mounting pole. (not included)
- Adjust antenna tilt angle (max  $\pm 30^\circ$ ) and fasten the nut (HEX M6)
- Connect the equipment and antenna with their respective connectors
- Ensure that all connections are waterproof
- Fasten the cables of the antenna and equipment



### Antenna Installation for vertical Pol. (default)

Unit: inches [mm]



### Antenna Installation for horizontal Pol.

