

# LT-Y-400-420-11.2

## Yagi Antenna | 400-420 MHz | 11.2 dBi

The LT-Y-400-420-11.2 is a robust Yagi Antenna designed for operation in the 380–400 MHz frequency range. Offering a directional gain of 11.2 dBi, this antenna is engineered for reliable, long-distance communication in professional and mission-critical radio systems.

Ideal for public safety, utility, and private network applications, the LT-Y-400-420-11.2 ensures focused signal transmission and reception, reducing interference and enhancing performance in point-to-point or point-to-multipoint setups. Its durable construction makes it suitable for both urban and remote outdoor environments.

### Key Features :

- High Gain, F/B Ratio
- Vertical or Horizontal
- Long Distance Communication, Anti-Jamming
- High Quality Aluminum Alloy Material
- All Weather Operation
- Extend a Low Loss Cable

### Key Highlights :

- Lightweight and compact for easy handling
- Excellent front-to-back ratio for reduced interference
- Ideal for base station and fixed installations
- Corrosion-resistant materials for long-term reliability
- Supports vertical or horizontal polarization
- Designed for consistent performance in all weather conditions



### Specification :

| LT-Y-400-420-11.2 |                                  |
|-------------------|----------------------------------|
| Frequency Range   | 400-420 MHz                      |
| Antenna Gain      | 11.2 dBi                         |
| Power Rating      | 100 W                            |
| Impedance         | 50 $\Omega$                      |
| VSWR              | $\leq 1.5$                       |
| Polarization      | Vertical or Horizontal           |
| Beamwidth         | V:40° H: 44°                     |
| Termination       | N Female or Customized           |
| Dimensions Length | 1.5 m (may vary with frequency)  |
| Weight            | 1.0 Kg (may vary with frequency) |
| Elements          | 8                                |
| F/B Ratio         | $\geq 16$ dB                     |
| Pole Diameter     | $\Phi$ 40 mm - 50 mm             |
| Bandwidth         | 15 MHz                           |

### Applications

- Public safety and emergency services
- Land mobile radio (LMR) systems
- Marine and port communications
- Industrial and utility networks
- Base station installations



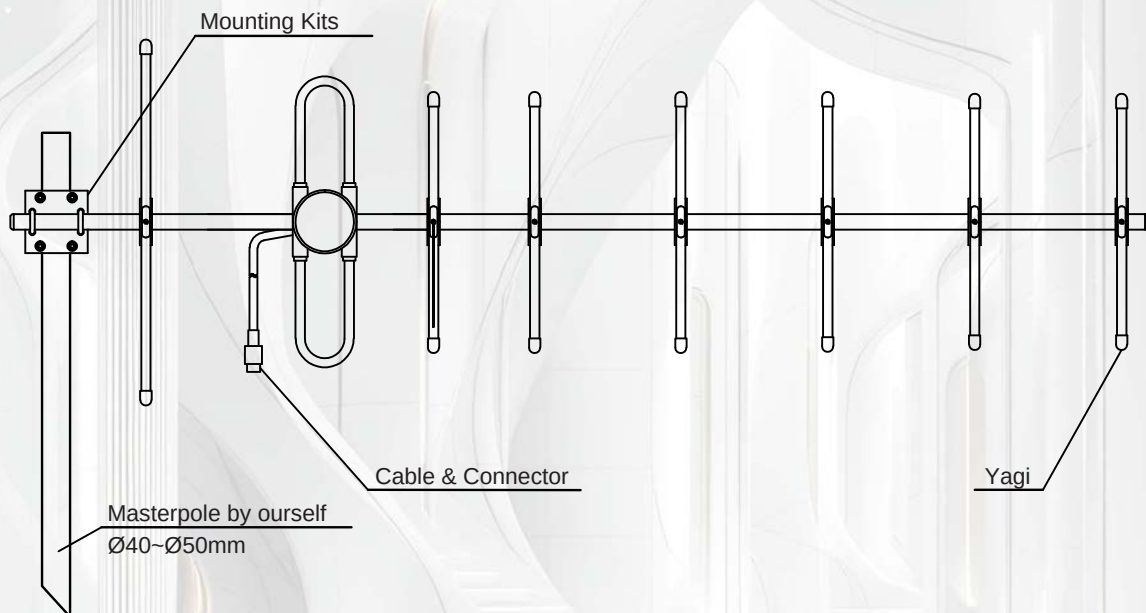
# Installation Guide

Yagi Antenna | 400-420 MHz | 11.2 dBi

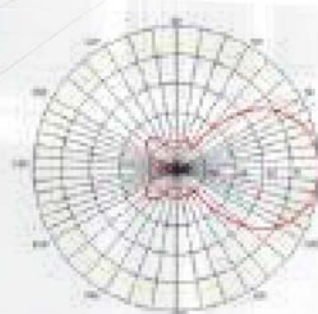
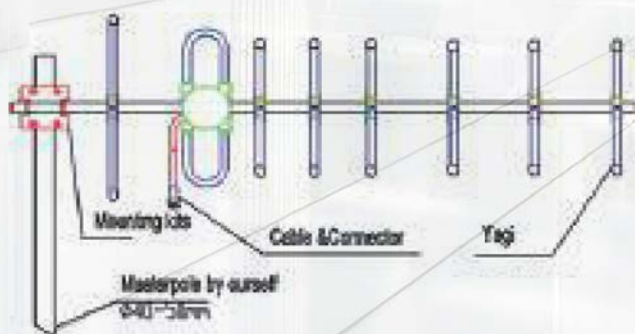
## Key Highlights

1. Upon receipt of the antenna, check the contents for damages. Immediately notify the carrier if any of the contents are missing or damaged;
2. Fix the antenna on the tower using the desired pole diameter mentioned on the illustration above;
3. Position the antenna to the right direction to optimize the correct polarization with the feed-line down;
4. Always weatherproof the cable connection. Failure to do so will degrade antenna signal over time.

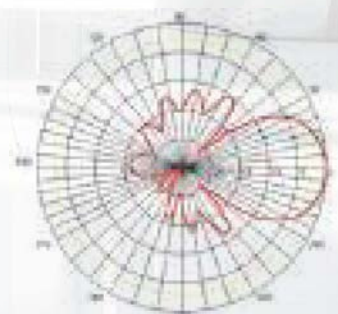
Note: Pole is NOT included in the package.



## Reference Patterns



E-Panel



H-Panel

