

LP-PAR2424 2.4 GHz 24 dBi High Performance Die Cast Semi-Parabolic Antenna.

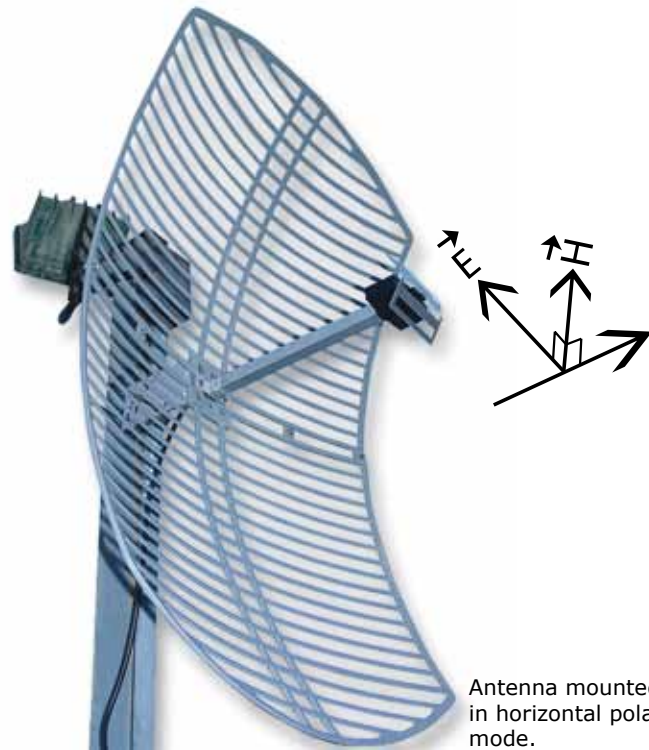
LPPAR2424_SS_ENB02W

Features

- Superior performance 24 dBi gain.
- 8° Horizontal beamwidth.
- 12° Vertical Beamwidth.
- Small Size/Reduced Shipping Cost.
- 100 W Passive Feed Dipole.
- Type N-Female Connector 12" (30.48cm) pigtail.
- Horizontal or Vertical Polarity.
- Rugged, Lightweight and Waterproof.
- Heavy Duty Adjustable Tilt Bracket.
- 2-Piece Powder Coat Painted Die Cast Aluminum.
- Easy to assemble.

Applications

- 2400-2483.5 MHz ISM Band.
- IEEE 802.11b/g, Wireless LAN.
- WiFi Systems & Long-range Directional Applications.
- Point to Point Systems.
- Wireless Bridges, Backhaul Applications & Wireless Video Systems.



Antenna mounted in horizontal polarization mode.

LP-PAR2424 2.4 GHz 24 dBi High Performance Die Cast Semi-Parabolic Antenna.

The LP-PAR2424 is a directional antenna system with 24 dBi gain and 8° of horizontal beam-width for directional applications.

It is rugged and weatherproof and almost invisible to the bare eye. It incorporates a two piece aluminum die cast semi parabolic grid type antenna reflector, very lightweight and strong with the PMPF, a patented 50-Ohm passive feed dipole and can be installed for horizontal or vertical polarization applications.

Installation is simple with the LanPro adjustable "Heavy Duty" bracket that comes standard and lets the installer to adjust tilt and swivel angles of up to 60 degrees. The bracket accommodates poles from 1.25" up to 2" OD. Brackets are 100% aluminum for extreme corrosion protection and each reflector comes complete with stainless steel hardware and assembly instructions. Comes with a 30.48cm (12") pigtail with terminated in a N-female connector.

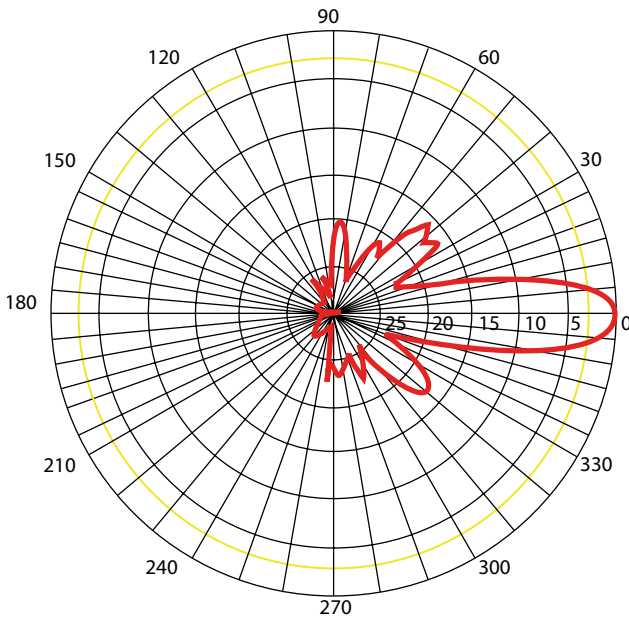
Figure shown depicts the LP-PAR2424 oriented in the horizontal polarization position. In this case the H Pattern is vertically oriented and the E Pattern is horizontally oriented. This orientation is used when the other antennas in the point to point or point to multipoint scheme are horizontally polarized too.

If the other antennas in the scheme are of the Omni style, you must turn the dipole or the entire antenna a complete 90 degrees so as to have the dipole vertically oriented like the paired antennas.

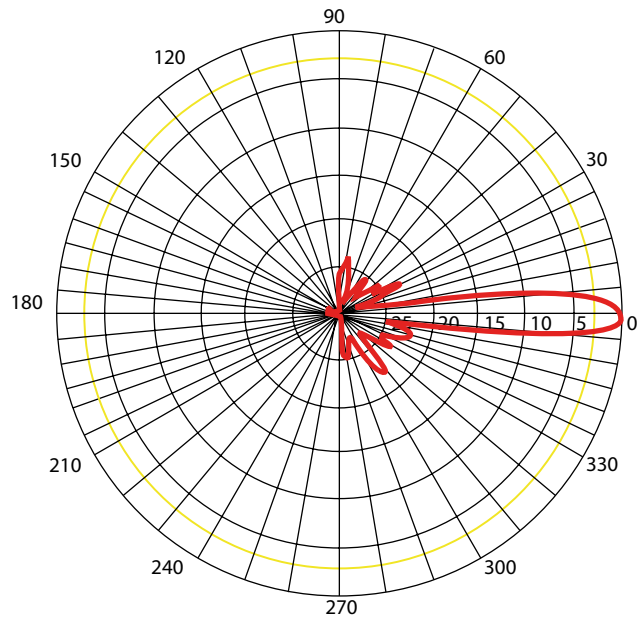
A Specifications

Frequency	2400-2483.5 MHz
Gain	24 dBi
Bandwidth	83.5 MHz
-3 dBi Beam Width	8°
Horizontal Beamwidth	12°
Front to Back Ratio	>30dB
Impedance	50 Ohm
Max. Input Power	100 Watts
VSWR	< 1.5
Weight	6 lbs (5 kg)
Grid Dimensions	90cmx60 cm
Mounting	1.25 - 2 in. (31.8 - 50.8 mm) dia. mast
Elevation Angle	0 to +10 degrees
RoHS Compliant	Yes
Operating Temperature	-40° C to 85° C (-40° F to 185° F)
Lightning Protection	DC Short
Wind speed	60 m/s

LP-PAR2424 Antenna Patterns

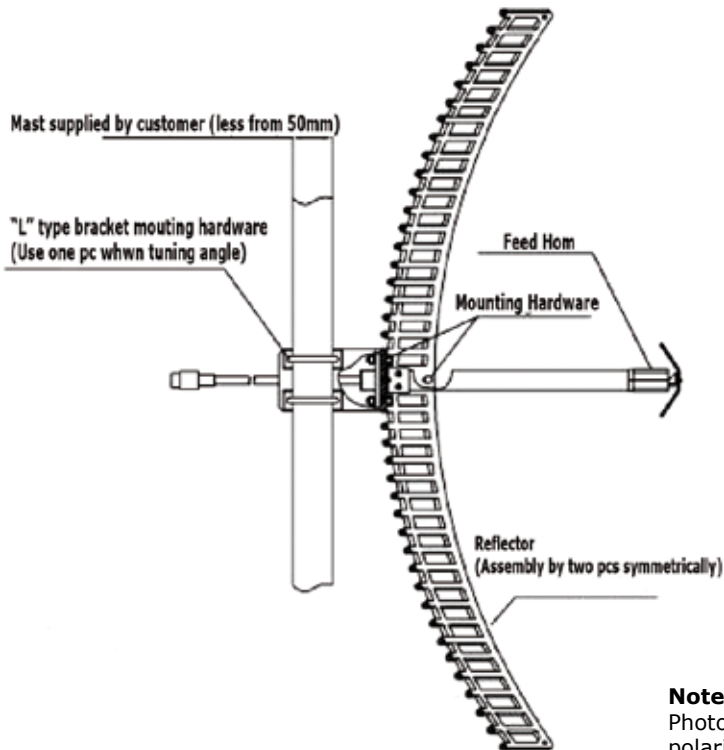


E PLANE



H PLANE

Assembly Sketch



Note:
Photos and sketch show horizontal polarization of the dipole and reflector.

B Installation

1. Assembly the two pieces of the reflector symmetrically.
2. Mount the feed horn on the reflector according to the sketch drawing. Make sure the feed dipole is parallel with most bars of the grid reflector. When the feed dipole and most grid bars are vertical to the ground, the antenna is vertically polarized. When the feed dipole and most grid bars are horizontal to the ground, the antenna is horizontally polarized.
3. Mount the "L" type bracket at the back of the reflector, then mount the antenna on the mast supplied by customer according to sketch drawing.
4. Test the antenna with equipment to make sure the antenna receives the best signal by tuning the azimuth and pitch angle, then lock all the screws and seal the connector between the antenna and cable.

C How to Order

LP-PAR2420 2.4 GHz 24 dBi High Performance Die Cast Semi-Parabolic type Antenna.