



# User Guide

## **2.4GHz 14dBi Directional Antenna**

TL-ANT2414A

## **2.4GHz 9dBi Directional Antenna**

TL-ANT2409A

## **2.4GHz 24dBi Grid Parabolic Antenna**

TL-ANT2424B

# TL-ANT2414A/ TL-ANT2409A

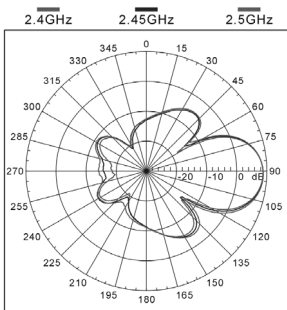
## Specification

<b>Electrical Specifications</b>	
Frequency Range	2.4GHz to 2.5GHz
Impedance	50Ω Nominal
Gain	TL-ANT2414A: 14dBi TL-ANT2409A: 9dBi
VSWR	1.92 Max
Return Loss	-10dB Maximum
Radiation	Directional
Admitted Power	1W
<b>Physical Specifications</b>	
Cable	CFD-200 Coaxial Cable
Antenna Cover	ABS
Operating Temp	-20°C to 65°C
Storage Temp	-30°C to 75°C
Color	Gray
Connector	RP-SMA Plug (male)

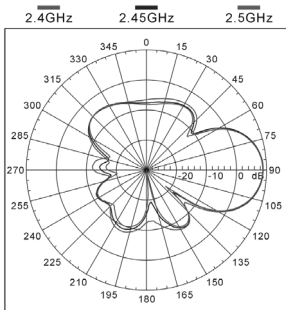
# Field Pattern

## TL-ANT2414A

Far-field amplitude of Golf-V14.nsi

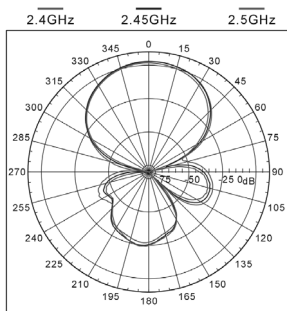


Far-field amplitude of Golf-H14.nsi

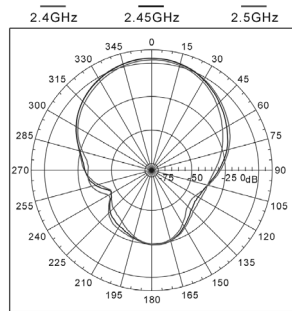


## TL-ANT2409A

Far-field amplitude of MGS-DS-09-H-2-5.nsi



Far-field amplitude of MGA-DS-09-V-X2-4.nsi



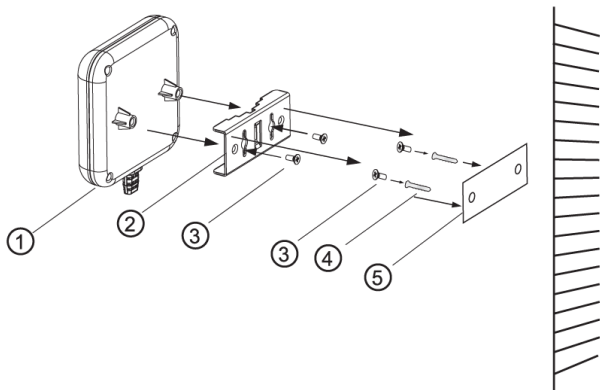
# Installation

There are two methods to install the antenna: wall mounting and pole mounting.

**Note:** For simplicity, we will take TL-ANT2409A for example throughout the following introduction.

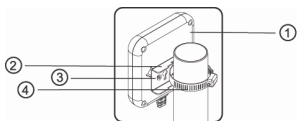
## 1. Wall Mounting

- |                   |       |
|-------------------|-------|
| ① Antenna         | 1 pc  |
| ② Holder          | 1 pc  |
| ③ Screws          | 4 pcs |
| ④ Plastic Fixings | 2 pcs |
| ⑤ Sticker         | 1 pc  |

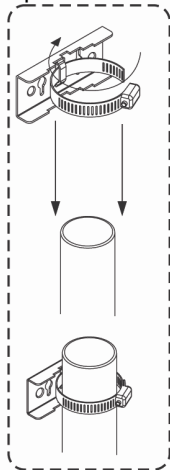


## 2. Pole Mounting

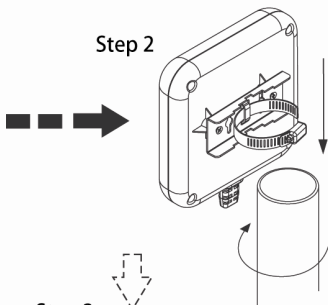
- ① Antenna 1 pc
- ② Holder 1 pc
- ③ Screws 2 pcs
- ④ Hose Clamp 1 pc



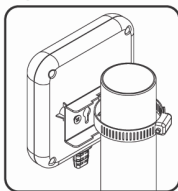
Step 1



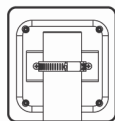
Step 2



Step 3



Finish

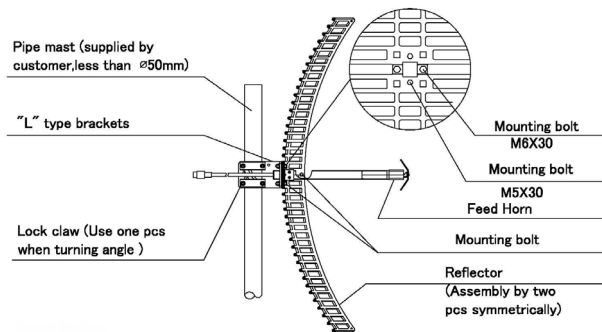


# TL-ANT2424B

## Specification

<b>Electrical Specifications</b>	
Frequency Range	2.4GHz to 2.5GHz
Impedance	50Ω
Gain	24dBi
VSWR	≤1.5
Horizontal Beamwidth	14°
Vertical Beamwidth	10°
F/B Ratio	>30dB
Polarization	Vertical or Horizontal
Maximum Input Power	100W
Connector	N Female
Application	Outdoor
Mount Style	Pole Mount / Wall Mount
<b>Mechanical Specifications</b>	
Antenna Dimension	600×1000 mm
Weight	3.5 +/-0.15 KG
Mounting Mast Diameter	Ø30~Ø50 mm
Rated Wind Velocity	216 Km/h

# Installation



1. Assembly the two pieces of reflector symmetrically.
2. Mount the feed horn on the reflector according to the Mounting diagram. Make sure the feed dipoles parallel with most bars of the grid reflector. When the feed dipoles and most grid bars are vertical to the ground, the antenna is vertical polarized. When the feed dipole and most grid bars are horizontal to the ground, the antenna is horizontal 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 the Mounting diagram.

4. Test the antenna with equipment to make sure the antenna receive the best signal by turning the azimuth and pitching angle, then lock all the screws and seal the connector between antenna and cable.



**EAC**



For technical support and other information, please visit <http://www.tp-link.com/support>, or simply scan the QR code.