# 2.4 - 2.5 GHz Grid Antenna

order no. 18686.24

Robuste Alu-Gitterspiegel für 2.4 – 2.5 GHz WLAN. Die WLAN-Gitterspiegel aus gegossenem Aluminium kombinieren sehr hohe Stabilität und geringe Windlast für lange Einsatzdauer der Antennen. Die speziell entworfenen Spiegelformen bieten ca. 23,5 – 25 dBi Gewinn. Durch die geteilte Bauform des 90x70cm Spiegels ist das Packmaß besonders klein, das wirkt sich positiv auf die Versandkosten aus. Eine Neige/ Schwenkhalterung für Mastmontage ist im Lieferumfang enthalten. Anschluß: N-Buchse.

Rugged WiFi grid dish antennas. The 90 cm x 70 cm grid reflector yields a 2.3 – 2.9 GHz grid with gain of 23,5 - 25 dBi which is about 3 dB higher than equivalent products. New parabolic 90 x 70 cm aluminium diecast grid, very rugged and insensitive to harsh weather conditions. The design is such that the grid is moulded in two halves (split-design) which results in a 65% reduction in packaging volume. The feed design also optimises aperture efficiencies which gives significantly higher gain when compared to similar grid antennas.

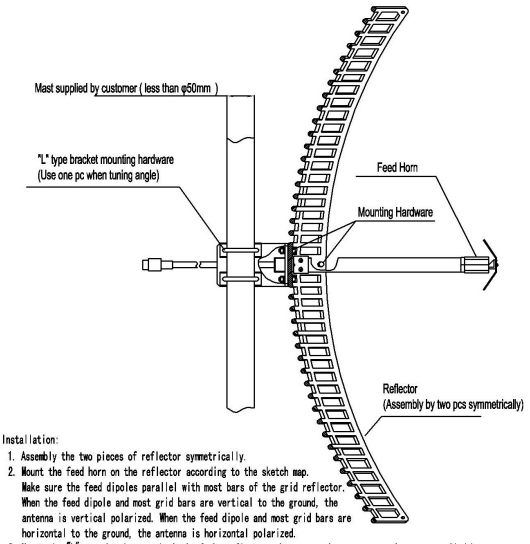
**Features:**

- UV Resistant powder coat finish
- Rugged outdoor construction
- Quick and easy installation
- Light weight and low wind resistance
- Azimuth and elevation continuous adjustment

**Application:**

- Ultra-secure wireless LAN point-to-point communication
- Can be used as client antennas in a wireless network or in similar proprietary standards operating in the 2.3 – 2.9 GHz frequency band.
- Long range CPE installation
- Long range Point-to-Point Links

| | |
|---|---|
| Freq. Range-MHz | 2400-2900 |
| Bandwidth-MHz | 83 |
| Gain-dBi | 24 |
| Hor. Beamwidth-° | 8 |
| Ver. Beamwidth-° | 12 |
| VSWR | ≤1.5 |
| F/B Ratio-dB | ≥28(H Plane) |
| Impedance-Ω | 50 |
| Polarization. | Vertical or Horizontal |
| Max. Power-W | 100 |
| Connector Type | N female |
| Dimension-m | 0.6×0.9 |
| Weight-Kg | 3.6 |
| Pole Diameter-mm | 40-50 dia. |




Installation:

1. Assembly the two pieces of reflector symmetrically.
2. Mount the feed horn on the reflector according to the sketch map. Make sure the feed dipoles parallel with most bars of the grid reflector. When the feed dipole 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 sketch map.
4. Test the antenna with equipment to make sure the antenna receive the best signal by tuning the azimuth and pitching angle, then lock all the screws and seal the connector between antenna and cable.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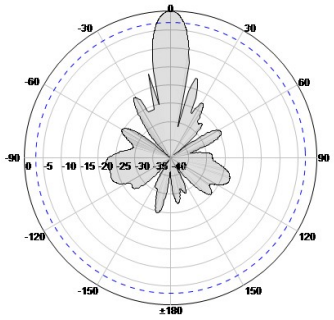
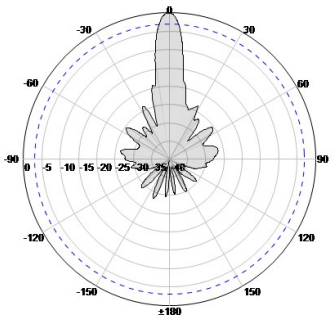
## Radiation Patterns




E-Plane




H-Plane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