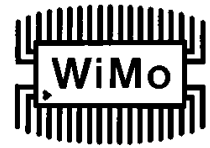




# 5,15 - 5,85 GHz Grid Antenna

order no. 18686.5



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.

### Features:

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

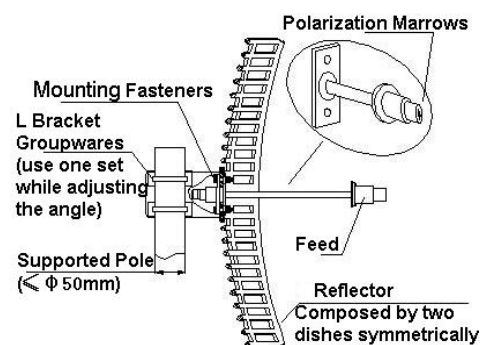
### Application:

- 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

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.



Freq.Range-MHz	5150 to 5850
Bandwidth-MHz	700
Gain-dBi	29.5
Beamwidth-°	E:6 H:4
F/B Ratio-dB	≥25
VSWR	≤1.5
Impedance-Ω	50
Polarization	Vertical or Horizontal
Max.Power-W	100
Rated Wind Velocity-m/s	60
Connector	N Female
Dimensions-m	0.6×0.9
Weight-Kg	4.5
Mast Diameter-mm	φ40 to 50



#### Installation ways:

1. Combine two dishes symmetrically to compose a parabolic groupware.
2. Install the feed to the dish as per the sketch, ensure that the direction of the "polarization arrow" on the feed is the same with the direction of the grid. When the direction of the arrow and the grid are both vertical with the ground, the antenna is in vertical polarization state. When the direction of the arrow and the grid are both horizontal with the ground, the antenna is in horizontal polarization state.
3. Install the L bracket to the dish, then place the antenna to the supported pole as per the sketch.
4. Test the receiving signal by instruments, adjust the azimuth angle and the pitching angle to enlarge the receiving signal. Tighten all the nuts and seal the connector for joining the antenna and the feed.

## WiMo Antennen und Elektronik GmbH

Am Gäxwald 14, D-76863 Herxheim Tel. (07276) 96680 FAX 9668-11

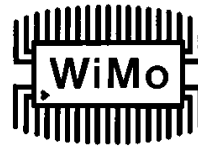
<http://www.wimo.com>

e-mail: [info@wimo.com](mailto:info@wimo.com)



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### Installation Instructions

- For vertical polarisation install as shown in figure 1.
- Attach the L bracket to the Grid Dish by means of the four M6 bolts and star washers provided.
- For horizontal mounting of the Grid, mount the Bracket as indicated in figure 2.
- Whereas to obtain different tilt angles, mount Bracket as indicated in figure 3.
- Once the Grid is mounted the appropriate Feed can be installed.
- The Feed is linearly polarized and should be vertical when mounted on the Grid Dish.
- Ensure that the Dish is fastened together correctly and the Pole mount bracket is properly secured to the dish. Vertically align the inserts on the Feed base with those of the Grid dish then fasten the screws through the Pole mount bracket. Note that the Feed can easily be mounted on the Grid Dish while the dish is already mounted on the mast. See figure 4.
- Strain relieve the Feed cable to the mast with a cable tie or weatherproof tape.
- Connect the antenna to the radio device.

### Packing list

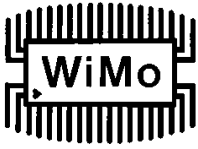
Item	Description	Quantity
1	GRID halves	2
2	FEED: Housing assembly	1
3	FEED: M6 x 16 Hex bolts	12
4	FEED: M6 Star washer	12
5	FEED: M6 Nut	10
6	Mast bracket	1
7	bracket	2
8	M6 x 90 U-bolt	2
9	M6 Star washer	4
10	M6 Nut	4

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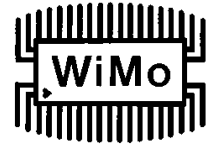


Fig 1: attaching the mast bracket to the grid

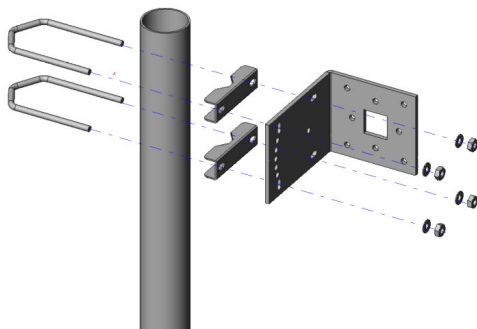
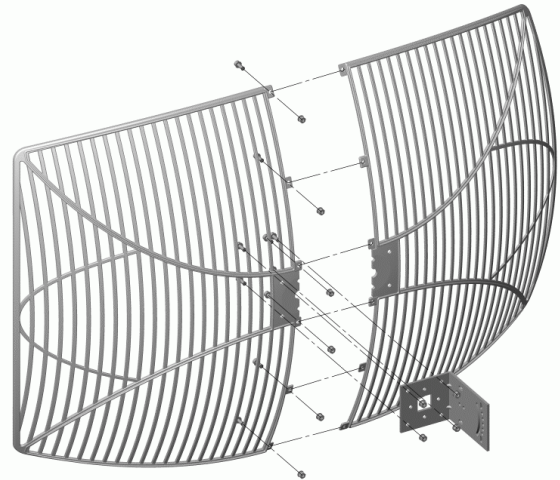


Fig 2: horizontal mounting

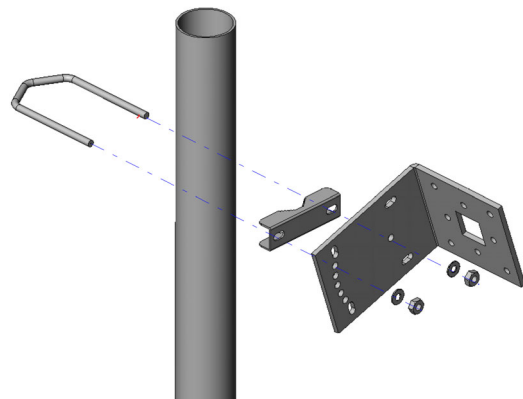


Fig 3: different tilt angles



Fig 4: feed mount

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