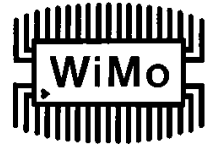




## 5.4-6 GHz Grid Antenna

order no. 18685.5



Robuste Alu-Gitterspiegel für den 5 GHz-Bereich. Die WLAN-Gitterspiegel aus gegossenem Aluminium kombinieren sehr hohe Stabilität und geringe Windlast für lange Einsatzdauer der Antennen. Die speziell entworfenen Spiegelform bietet ca. 30dBi Gewinn! Im Gegensatz zu anderen Parabolantennen sind diese Antennen auch für das 5 GHz-Band auf die bestmögliche Leistung optimiert. 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 5 GHz grid with gain of 30 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 5– 6 GHz band.
- Long range CPE installation
- Long range Point-to-Point Links

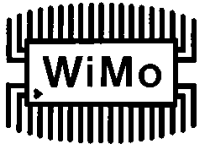


# WiMo Antennen und Elektronik GmbH

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

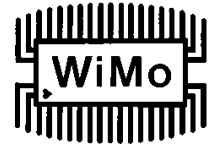
<http://www.wimo.com>

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



# 5.4-6 GHz Grid Antenna

order no. 18685.5



### Specifications:

#### Electrical:

Gain (max) 30 dBi (+0.5 dB)

Frequency 5400 - 6000 MHz

VSWR < 2.0:1

Feed power handling 10 W

E-plane 3 dB beamwidth 6° (± 5°)

H-plane 3 dB beamwidth 5° (± 5°)

Nominal input impedance 50 Ohm

Polarisation Linear

Connector: N female

#### Environmental:

Wind Loading 160 km/h

Temperature Range - 20° C to +70° C

Shock 40G at 10 msec

Thermal Shock - 20° C to +70° C : 10 cycles

Water Ingress Rating IP65 (NEMA 4X)

Salt spray in accordance No 72 Din 50021

with test method

#### Mechanical:

Actual reflector Dimension 90 cm x 70 cm

Dish focal length 30 cm

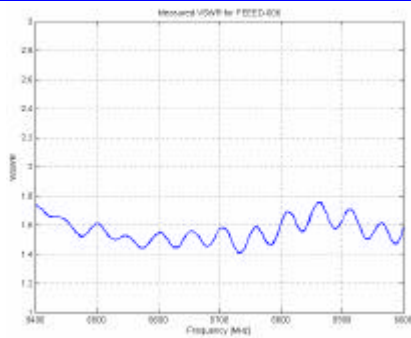
Weight 3.3 kg

Dish Material Diecast Aluminium

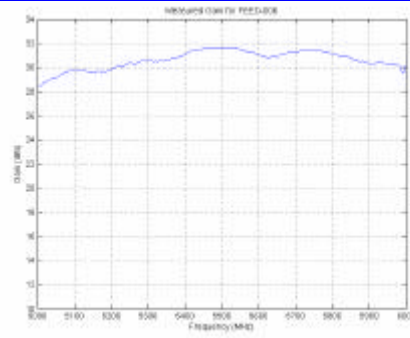
Bracket High strength with elevation

And Azimuth tilt

### VSWR and Gain Pattern:

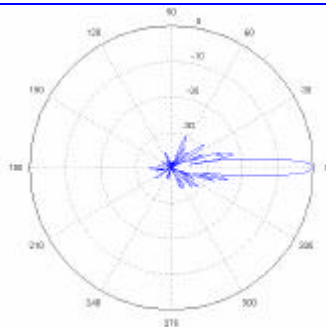


VSWR

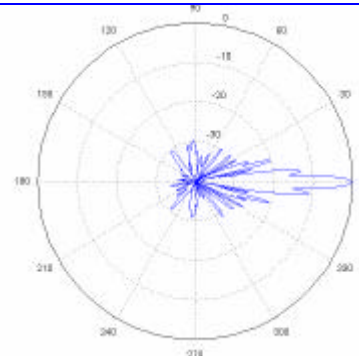


Gain

### Radiation Patterns



E-Plane



H-Plane

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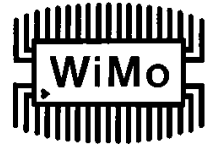
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## 5.4-6 GHz Grid Antenna

order no. 18685.5



### 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

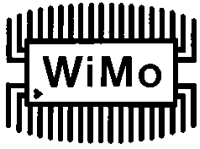
Item	Description	Quantity
1	GRID halves	2
2	FEED: Housing assembly	1
3	FEED: M6 x 16 Hex bolts	12
4	FEED: M6 Star washer	12
5	FEED: M6 Nut	10
6	Mast bracket	1
7	bracket	2
8	M6 x 90 U-bolt	2
9	M6 Star washer	4
10	M6 Nut	4

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Fig 1: attaching the mast bracket to the grid

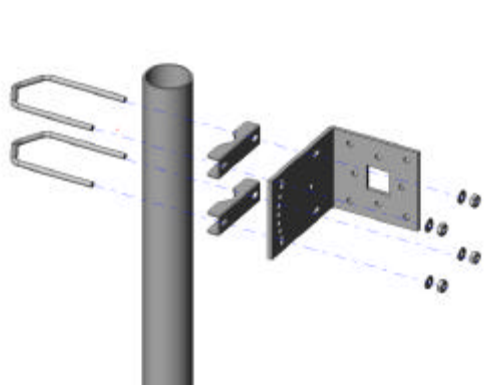
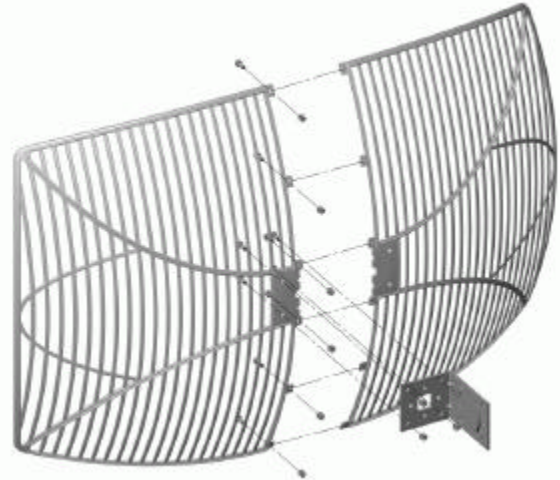


fig 2: horizontal mounting

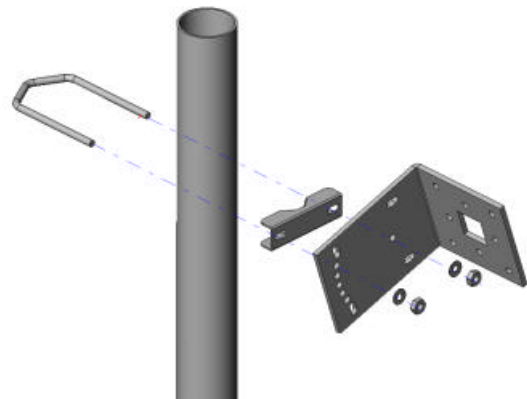


fig 3: different tilt angles



fig 4: feed mount

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