RF ELEMENTS®

60° Asymmetrical Beam Antenna

HORN ANTENNA WITH N-FEMALE CONNECTORS

The radiation pattern of 60° Asymmetrical Horn CC Antenna is 60° wide in the azimuth plane and 25° in elevation. Increased gain and excellent beam efficiency greatly improve coverage planning options.

60° Asymmetrical Horn CC Antenna exceeds the traditional patch array sector antennas thanks to the high stability of the radiation pattern throughout the bandwidth of operation. Outstanding noise rejection and precision of the radiation pattern favor the antenna for high-densityaccess point clusters and densely co-located sites. 60° AsymmetricalHorn CC features a pair of N-female connectors ensuring a wide range of radio connectivity.

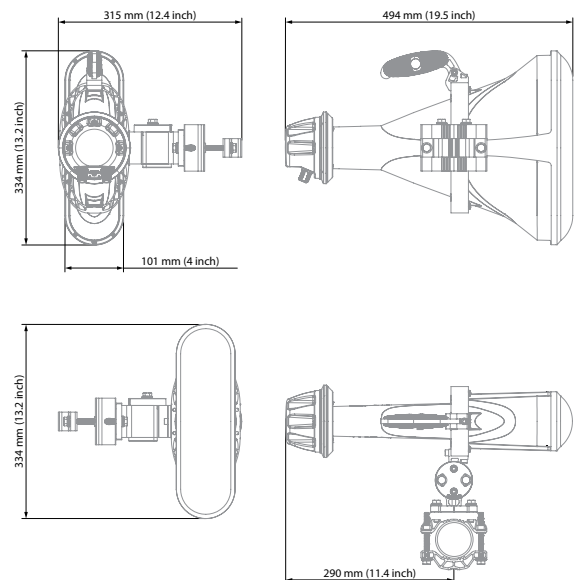Asymmetrical Horn antennas were awarded WISPA Product of the Year 2019, 2020 and 2021 Awards.

TECHNICAL DATA

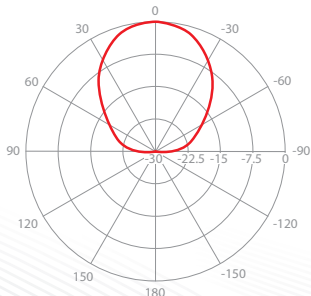|	
Radio Connection	2x N Female Bulkhead Connector
Antenna Type	Horn
Materials	UV Resistant ABS Plastic, Polycarbonate, HDPE, Aluminium, Stainless Steel
Environmental	IP55
Pole Mounting Diameter	40-80 mm (1.5-3.1 inch) Recommended as close to 80 mm (3.1 inch) as possible
Temperature	-35°C to +60°C (-31°F to +140°F)
Wind Survival	160 km/h (100 mi/h)
Wind Load	48/85 N - Front/Side at 160 km/h (100 mi/h)
Effective Projected Area	393/697 cm^2 - Front/Side (60.9/108 in^2)
Mechanical Adjustment	± 20° Elevation, ± 20° Azimuth
Weight	4.6 kg (10.3 lbs) – single unit* 5.9 kg (13 lbs) – single unit incl. package*
Single Unit	Retail Box: 540 × 365 × 160 mm (21.2 × 14.3 × 6.3 inch)*

PERFORMANCE

Frequency Range	5180 - 6000 MHz
Gain	17 dBi
Azimuth Beam Width -3 dB	H 45° / V 42°
Elevation Beam Width -3 dB	H 17° / V 16°
Azimuth Beam Width -6 dB	H 60° / V 60°
Elevation Beam Width -6 dB	H 25° / V 25°
Beam Efficiency	95 %**
Front-to-Back Ratio	27 dB
VSWR Typical	1.5
Polarization	Dual Linear H + V
Impedance	50 Ohm

PRODUCT DIMENSIONS

315 mm (12.4 inch)
334 mm (13.2 inch)
101 mm (4 inch)
494 mm (19.5 inch)
334 mm (13.2 inch)
290 mm (11.4 inch)

AZIMUTH PATTERN

V/H - Port Pattern Azimuth 5.6 GHz

*Subject to change, **Main beam defined up to first null

ELEVATION PATTERN

V/H - Port Pattern Elevation 5.6 GHz

GAIN

Gain / dBi
VSWR
Frequency / GHz

— V/H Gain (IEEE)
-- VSWR V
-- VSWR H

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