

90° Asymmetrical Beam Antenna

HORN ANTENNA WITH TWISTPORT™ CONNECTOR

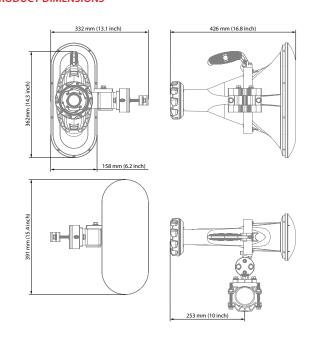
90° Asymmetrical Horn TP Antenna combines the best of both worlds - a high gain of a traditionalsector antenna and zero side lobes of a horn. Its radiation pattern is wide in azimuthal and narrow in the elevation plane, greatly improving coverage planning options. 90° Asymmetrical Horn TP Antenna delivers unmatched beam performance thanks to the high stability of gain and radiation pattern in the whole band of operation. Outstanding performance favors 90° Asymmetrical Horn TP antenna for high-density AP clusters, in highly populated areas and dense co-location sites. AH90-TP features our revolutionary TwistPort™ connector, a patent-pending twist-and-lock waveguide port. 90° Asymmetrical Horn TP Antenna supports a wide range of third party mainstream radios with our TPA TwistPort™ Adaptor. AH90-TP features an all new mechanical structure with a massive aluminum ring and mounting bracket. Stainless steel hardware comes with black coating that prevents hardware seizing.

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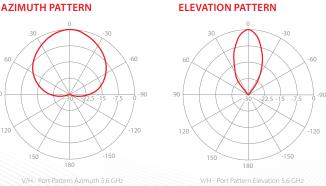
Asymmetrical Horn antennas were awarded WISPA Product of the Year 2019, 2020 and 2021 Awards.

TECHNICAL DATA	
Antenna Connection	TwistPort™ - Quick Locking Waveguide Port
Antenna Type	Horn
Materials	UV Resistant ABS Plastic, Polycarbonate, HDPE, Aluminium, Stainless Steel
Enviromental	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	79/82 N - Front/Side at 160 km/h (100 mi/h)
Effective Projected Area	646/654 cm ² - Front/Side (100.1/101.4 in ²)
Mechanical Adjustment	± 20° Elevation, ± 20° Azimuth
Weight	5.3 kg (11.6 lbs) – single unit* 7.2 kg (15.9 lbs) – single unit incl. package*
Single Unit	Retail Box: 510 × 420 × 175 mm (20 x 16.5 x 6.8 inch)*
PERFORMANCE	
Frequency Range	5180 - 6000 MHz
Gain	16 dBi
Azimuth Beam Width -3 dB	H 60°/V 60°
Elevation Beam Width -3 dB	H 16°/V 16°
Azimuth Beam Width -6 dB	H 90°/V 90°
Elevation Beam Width -6 dB	H 25° / V 25°
Beam Efficiency**	90%

PRODUCT DIMENSIONS

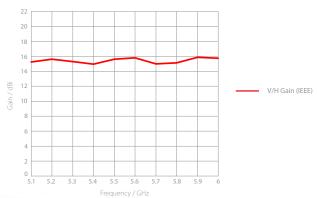


Front-to-Back Ratio AZIMUTH PATTERN



30 dB

GAIN



1/1 ASYMMETRICAL HORN ANTENNAS Rev 12-2021