

# 30° Asymmetrical Beam Antenna

## HORN ANTENNA WITH TWISTPORT<sup>™</sup> CONNECTOR

30° Asymmetrical Horn TP Antenna has high gain and zero side lobes, meaning very high beam efficiency. Its radiation pattern is wide in the azimuth and narrow in the elevation plane. The stability of gain, radiation pattern, and resulting coverage is excellent across the whole useful bandwidth. These properties and outstanding noise rejection favor 30° Asymmetrical Horn TP Antenna to be used in high customer density and co-location sites. TwistPort<sup>™</sup> - our revolutionary patent-pending twist-and-lock waveguide port enables connectivity to a wide range of third-party radios using TwistPort<sup>™</sup> Adaptors.

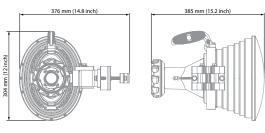
BeamSwitch<sup>TM</sup> feature enables mounting of the antenna with 90° rotation by swapping the position of the handle and the bracket. AH2030-TP thus can provide 20° azimuth and 30° elevation beamwidth option. The extruded aluminium ring improves the structural strength of the antenna attachment and makes the BeamSwitch<sup>TM</sup> flip easy and fast.

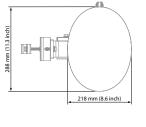
Asymmetrical Horn antennas were awarded WISPA Product of the Year 2019, 2020 and 2021 Awards.

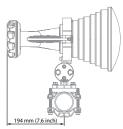
### **TECHNICAL DATA**

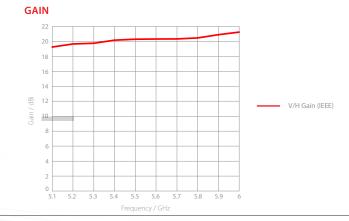
Antenna Connection	TwistPort™ - Quick Locking Waveguide Port
Antenna Type	Horn
Materials	UV Resistant ABS Plastic, Polycarbonate, HDPE, Aluminium, Stainless Steel
Enviromental	IP55
Pole Mounting Diameter	40-80 mm (1.5-3.1 inch) Recommended as close to 80 mm (3.1 inch) as possible
Temperature	-35°C to +60°C (-31°F to +140°F)
Wind Survival	160 km/h (100 mi/h)
Wind Load	71/49 N - Front/Side at 160 km/h (100 mi/h)
Effective Projected Area	580/404 cm <sup>2</sup> - Front/Side (89.9/62.6 in <sup>2</sup> )
Mechanical Adjustment	$\pm$ 20° Elevation, $\pm$ 20° Azimuth
Weight	4.2 kg (9.2 lbs) – single unit* 6.3 kg (13.8 lbs) – single unit incl. package*
Single Unit	Retail Box: 483 × 334 × 235 mm (19.0 x 13.1x 9.2 inch)*
PERFORMANCE	
Frequency Range	5180 - 6000 MHz
Gain	20.5 dBi
Azimuth Beam Width -3 dB	H 21°/V 21°
Elevation Beam Width -3 dB	H 15°/V 15°

# PRODUCT DIMENSIONS







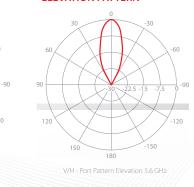


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# Azimuth Beam Width -6 dB H 30° /V 30° Elevation Beam Width -6 dB H 20° /V 20° Beam Efficiency\*\* 95% Front-to-Back Ratio 35 dB

**AZIMUTH PATTERN** 

ELEVATION PATTERN



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#### **3D RADIATION DIAGRAM**

SCALE: 30dBi COMPATIBLE WITH: ADOBE ACROBAT READER DC. NOT SUPPORTED ON MOBILE. USE MOUSE TO ROTATE THE DIAGRAM. SCROLL IN/OUT TO ZOOM IN/OUT

dBi

										1		1										
20.5	19	17.5	16	14.5	13	11.5	10	8.5	7	5.	5	4	2.5	1	-0.5	5 -	2	-3.5	-5	-6.5	-8	-9.5

	RIGHT	LEFT	UP	DOWN
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