

# Symmetrical Horn Antenna

## SH-TP 5-40

### SYMMETRICAL HORN ANTENNA WITH TWISTPORT CONNECTOR AND CARRIER CLASS PERFORMANCE

The SH-TP Series Sectors offer unique RF performance in a very compact package. Scalar horn antennas have symmetrical beams with identical patterns in the Vertical and Horizontal plain. Extremely small Side lobes are inherent to this type of antenna so interference is greatly decreased. SH-TP Antennas are ideal for covering areas with close in clients where null zone issues occur. High density AP clusters and radio Co-location is now practical due to our very unique RF radiation patterns.

All SH-TP Antennas are equipped with a unique TwistPort™, our patent pending wave guide connector. TwistPort™ connectors are virtually loss-less and a revolutionary leap forward in wireless system scalability and convenience of deployment. SH-TP Antennas are compatible with any TwistPort™ equipped radios. Our antennas support a wide range of third party radios from mainstream vendors with our TwistPort™ Adapters along with our RF elements® Simper™ Radios.



#### TECHNICAL DATA

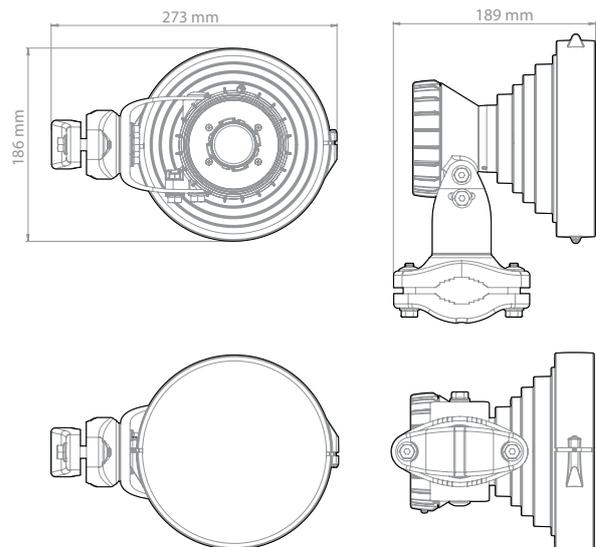
|                        |   |
|------------------------|---|
| Antenna Connection     | TwistPort™ - Quick Locking Waveguide Port   |
| Antenna Type           | Horn  |
| Materials              | UV Resistant ABS Plastic, Polycarbonate, Polypropylene, Aluminium, Stainless Steel                                      |
| Environmental          | IP55  |
| Pole Mounting Diameter | 15-86 mm  |
| Temperature            | -30°C to +55°C (-22°F to +131°F)  |
| Wind Survival          | 160 km/hour   |
| Mechanical Tilt        | ± 25°   |
| Weight                 | 2 Kg / 4.4 lbs* – single unit<br>2.3 Kg / 5 lbs* – single unit incl. package<br>24.3 Kg / 53.6 lbs* – carton (10 units) |
| Single Unit            | Retail Box: 32 × 22 × 20 cm*  |
| 10 Units               | Carton Box: 104 × 46 × 33 cm*   |

\*Estimation based on pre-production units. Subject to change.

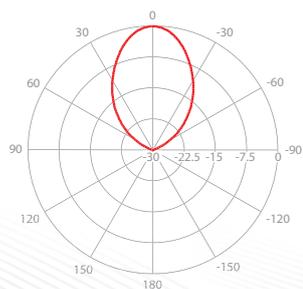
#### PERFORMANCE

|                            |               |
|----------------------------|---------------|
| Gain Max                   | 16.2 dBi      |
| Gain Typical               | 16 dBi        |
| Azimuth Beam Width -3 dB   | H 27° / V 27° |
| Elevation Beam Width -3 dB | H 27° / V 27° |
| Azimuth Beam Width -6 dB   | H 40° / V 40° |
| Elevation Beam Width -6 dB | H 40° / V 40° |
| Front-to-Back Ratio        | 40 dB         |

#### PRODUCT DIMENSIONS



#### AZIMUTH PATTERN



V/H - Port Pattern Azimuth 5.6 GHz

#### ELEVATION PATTERN



V/H - Port Pattern Elevation 5.6 GHz

#### GAIN

