

## HyperLink Wireless 2.4/5.8 GHz Dual Band 180 Degree Sector Antenna Model: HG2458-13P-180

### Features

- Dual band, 2.4 GHz and 4.9-5.8 GHz
- MIMO – Multiple-Input and Multiple-Output
- Dual Band feed system in single enclosure
- Two integral N-Female connectors
- UV-resistant radome for all-weather operation

### Applications

- 802.11a, 802.11b, 802.11g, 802.11 and 802.11ac access points and routers
- MIMO PtMP 1x2, 2x2 base station
- Homeland security and public safety services
- WiMAX, WISP and WiFi, applications
- Mobile Communication, Cell-sites



Patent Pending



### Description

The HyperLink HG2458-13P-180 Sectorial Panel Antenna combines high gain with a 180 degree beamwidth. It is a professional quality cell-site antenna designed primarily for MIMO point-to-multipoint base station applications in the 2.4 GHz (2400-2500 MHz) and 5 GHz (4900-5850 MHz) frequency bands. The HG2458-13P-180 stands out from the competition since they are true 180 degree dual band sector antennas which feature patent pending technology.

The HG2458-13P-180 is actually two antennas in one. A 2.4 GHz antenna and a 4.9 GHz to 5.9 GHz antenna integrated into a single enclosure. Each internal antenna is fed via its own individual connector.



### Rugged and Weatherproof

This antenna features a heavy-duty UV-resistant plastic radome for all-weather operation. The HG2458-13P-180 antenna is supplied with a stainless steel tilt and swivel mast mount kit. This allows installation at various degrees of up/down tilt for easy alignment.

## Specifications

### Electrical Specifications

<b>Frequency Range</b>	2400-2500 MHz / 4900-5850 MHz
<b>Gain</b>	11 dBi @ 2400-2500 MHz 13 dBi @ 4900-5850 MHz
<b>Polarization</b>	Vertical
<b>VSWR</b>	< 1.5 @ 2400-2500 MHz < 1.7 @ 4900-5850 MHz
<b>Vertical Beamwidth (-3 dBi)</b>	13° @ 2400-2500 MHz 8° @ 4900-5850 MHz
<b>Horizontal Beamwidth (-3 dBi)</b>	180°
<b>F/B Ratio</b>	12 dB @ 2400-2500 MHz 9 dB @ 4900-5850 MHz
<b>Max. Input Power</b>	100 watts
<b>Input Impedance</b>	50 Ohm
<b>Lightning Protection</b>	DC Ground

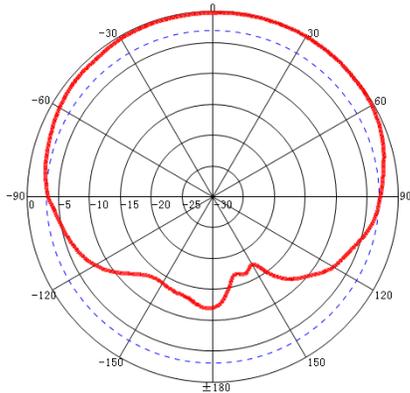
### Mechanical Specifications

<b>Connector Interface</b>	N-Female (2x)
<b>Dimensions</b>	37.0 x 4.7 x 2.5 in (940 x 120 x 65mm)
<b>Weight</b>	5.24 lbs (2.4 kg)
<b>Mounting Mast Size (Dia.)</b>	1.2-2.0 in. (30-50mm)
<b>Operating Temperature</b>	-40°C ~ +60°C (-40°F ~ +140°F)
<b>Rated Wind Velocity</b>	130mph (210km/h)
<b>RoHS Compliant</b>	Yes

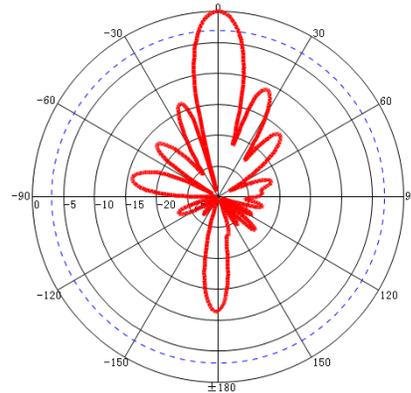
### Wind Loading Data

<b>Wind Speed (MPH)</b>	<b>Loading - Front</b>	<b>Loading - Side</b>
100	61.9 lbs	33.3 lbs
125	96.8 lbs	52.0 lbs

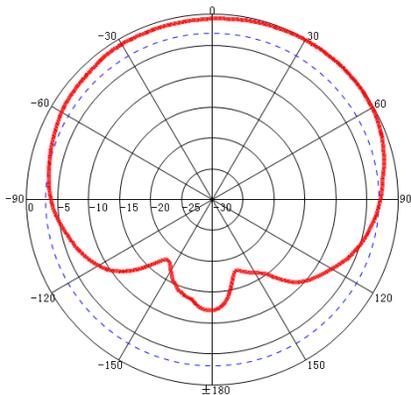
### RF Antenna Patterns



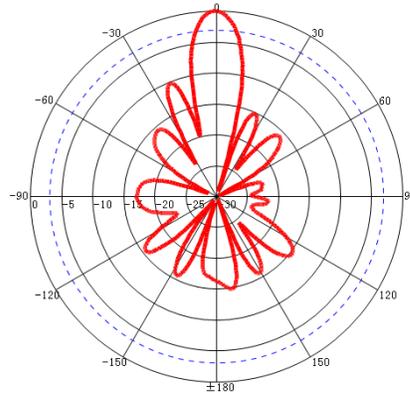
**H-Plane: 2400 MHz**



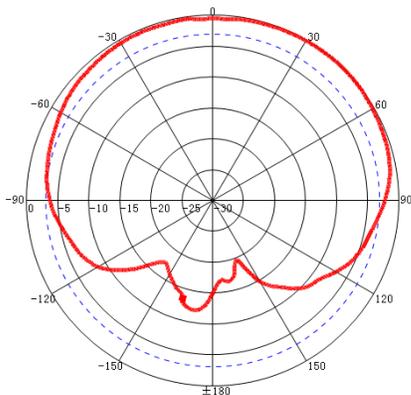
**V-Plane: 2400 MHz**



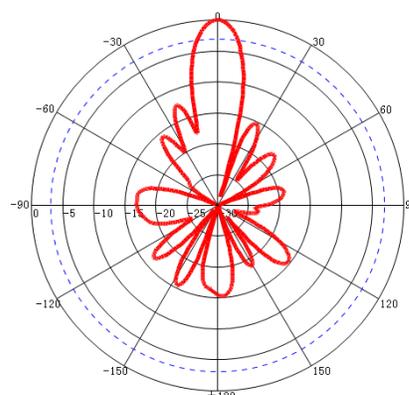
**H-Plane: 2450 MHz**



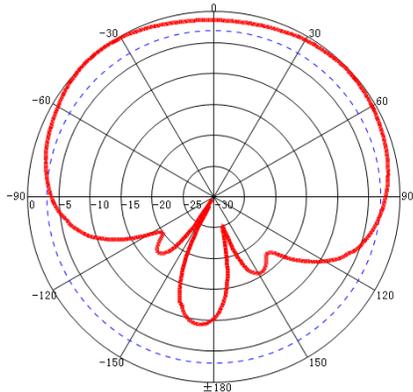
**V-Plane: 2450 MHz**



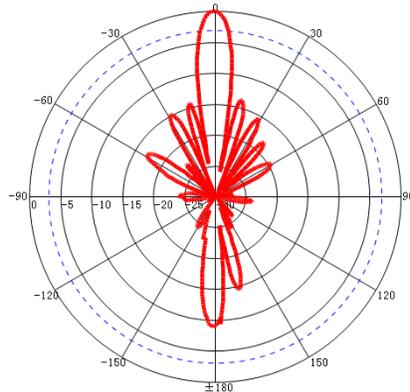
**H-Plane: 2500 MHz**



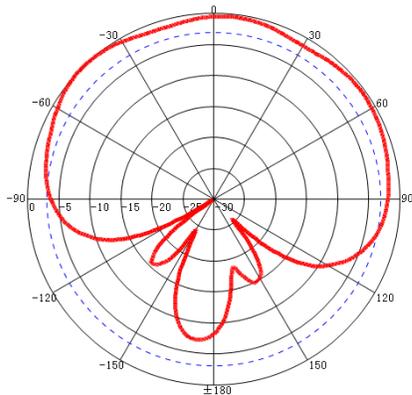
**V-Plane: 2500 MHz**



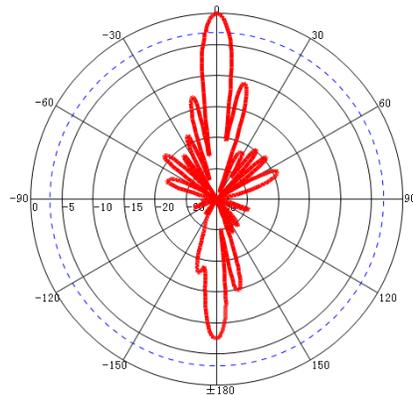
**H-Plane: 4900 MHz**



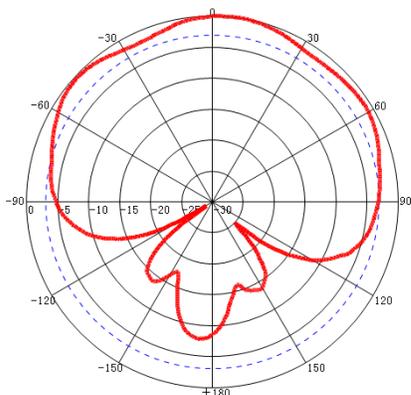
**V-Plane: 4900 MHz**



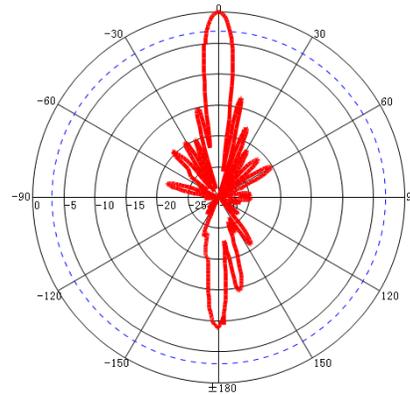
**H-Plane: 5400 MHz**



**V-Plane: 5400 MHz**



**H-Plane: 5850 MHz**



**V-Plane: 5850 MHz**