mimomax

UHF MIMO DUAL POLARIZED PANEL - 10dBi

400MHz Antenna Spec Sheet

The Mimomax Dual Polarized Panel Antenna is a very rugged, wideband, flat panel, directional antenna, specifically designed for high-altitude sites that encounter ice, snow and strong wind loading. It provides independent horizontal and vertical polarizations with typically > 35 dB isolation between the polarizations. Hence, can be used for a wide range of radio applications including MIMO.

Like all Mimomax MIMO antennas, the Dual Polarized Panel Antenna transmits both vertically and horizontally polarized signals from each link-end and radiates in the Mimomax bi-quadrature diversity format. This pattern-type diversity solution provides for increased signal quality and path resilience in very challenging environments.

With a typical 11.5 dBi antenna gain and maximum input power of 250 W, the Dual Polarized Panel Antenna is a highly versatile base station antenna.

UHF MIMO DUAL POLARIZED PANEL SPECIFICATIONS

Electrical Specifications	
Frequency Range	400-440MHz, 420-470MHz
Polarization	Horizontal and Vertical with separate feeds
Antenna Gain	> 10dBi (Typically 11.5dBi)
Beam Width	Horizontal Plane 60° Nominal Vertical Plane 34° Nominal
Front-to-Back Ratio	≥ 15dB
Frequency Bandwidth (15dB return loss)	60MHz

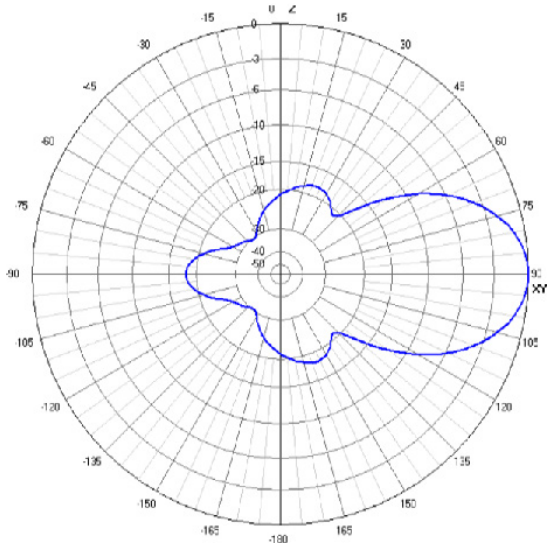
Mechanical Specifications	
Connector Type	2 x Female 7/16 connectors
Dimension	600 x 1000 x 150 (mm)
Weight	17.8kg
Material and Structure	High impact acrylic front panel with rugged powder coat aluminum frame and mounting
Max Gust Speed	250kph
Wind Loading	660N (at 160kph)
Mounting	Twin vertically spaced clamps for attachment to 48-140mm mounting pipe. (1)

Product Orders	
Product Code	**Description**
ANT-420-470-010-PD00	UHF MiMO Panel, Rugged, 420-470MHz, 10dBi, 2 x 7/16 Female

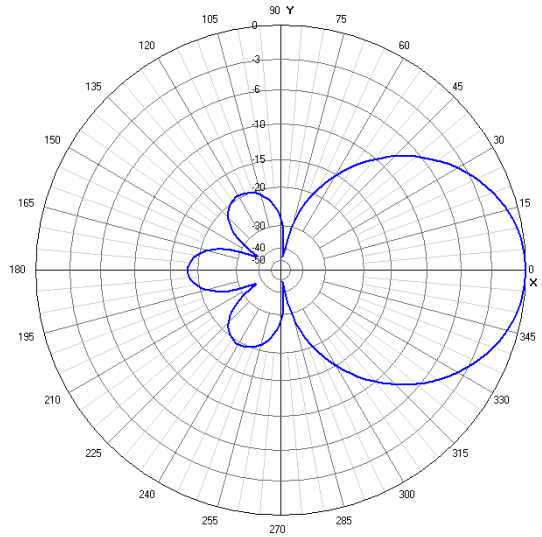
(1) Provision for additional stabilising struts (up to 4)

***Important**: Specifications are subject to change without prior notice*

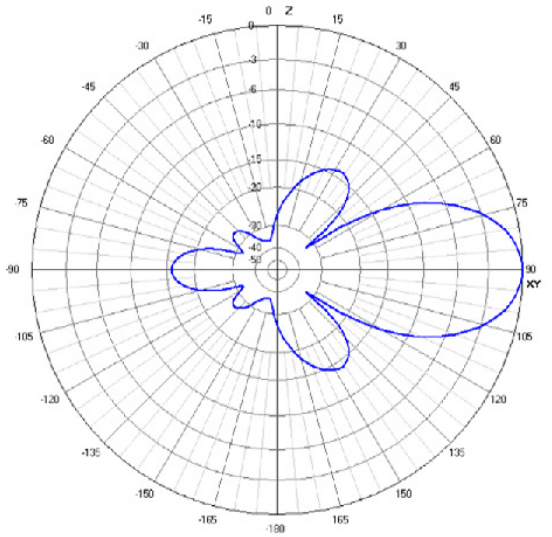
UHF MIMO DUAL POLARIZED PANEL RADIATION PATTERNS



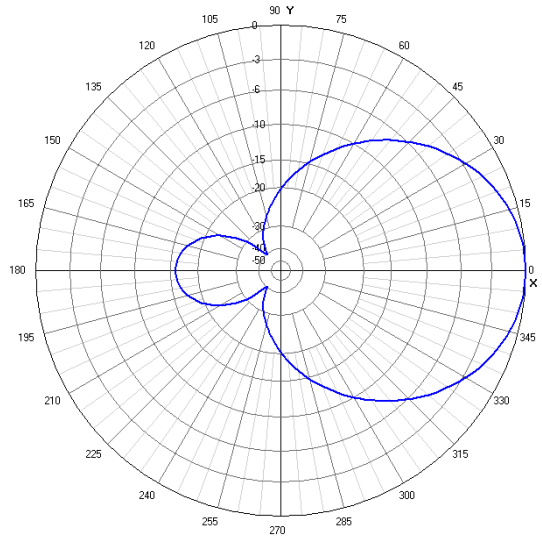
Horizontal Polarization / Vertical Plane



Horizontal Polarization / Horizontal Plane



Vertical Polarization / Vertical Plane



Vertical Polarization / Horizontal Plane