



SERIOUSLY SMART RADIOS FOR LINKING CRITICAL COMMUNICATIONS INFRASTRUCTURE

## Co-LINEAR OMNI DIRECTIONAL ANTENNA

### SPEC SHEET

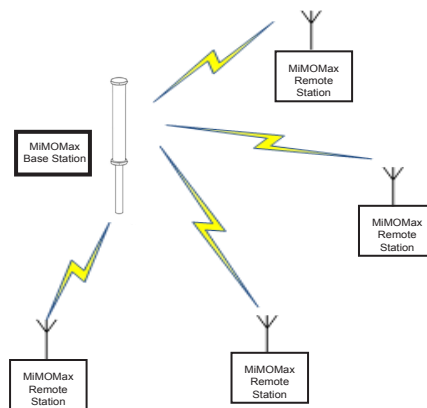
The MiMOMax Co-Linear Omni Directional Dual Polarized Antenna transmits omni directional (360 degree) signals and has a unique, non-intrusive and vertical physical structure.

Like all MiMOMax Wireless MiMO Antennas, the Co-Linear Omni Directional Antenna is cross polarized. It transmits both vertically and horizontally polarized signals in a bi-quadrature diversity format, increasing signal quality and resilience to path interference.

The MiMOMax Co-Linear Omni Directional Dual Polarized Antenna is specifically designed for point-to-multipoint master base station solutions where 360 degree path signals are required to transmit simultaneously to a number of remote outstations.



Co-Linear Omni Directional Antenna



Left: Diagram of the Co-Linear Omni Directional Dual Polarized Antenna from one base station transmitting to multiple remote outstations.

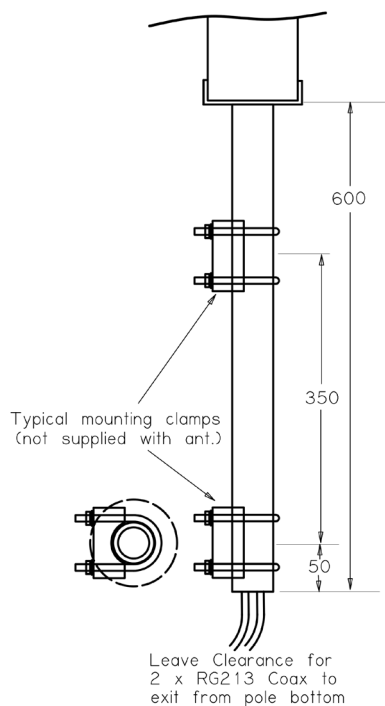
## Co-Linear Omni Directional Antenna Specifications

<b>Electrical Specifications</b>	
Frequency Range	400-470MHz
Polarization	Horizontal and Vertical with separate feeds
Antenna Gain	10dBi Nominal
Beam Width	Vertical Plane 12° Horizontal Plane N/A
Frequency Bandwidth (15dB return loss)	20MHz

<b>Mechanical Specifications</b>	
Connector Type	2 x Male Type N Connector on 1.5m tail of RG213 coaxial cable
Max Power Rating	50W (Average)
Dimension	110Ø x 3600 (mm)
Weight	18kg
Material and Structure	Rugged UV-PVC radome with high tensile aluminium alloy tube structure
Max Gust Speed	160kph
Wind Loading	555N (at 160kph)
Mounting	50mm dia. x 600mm mounting pipe

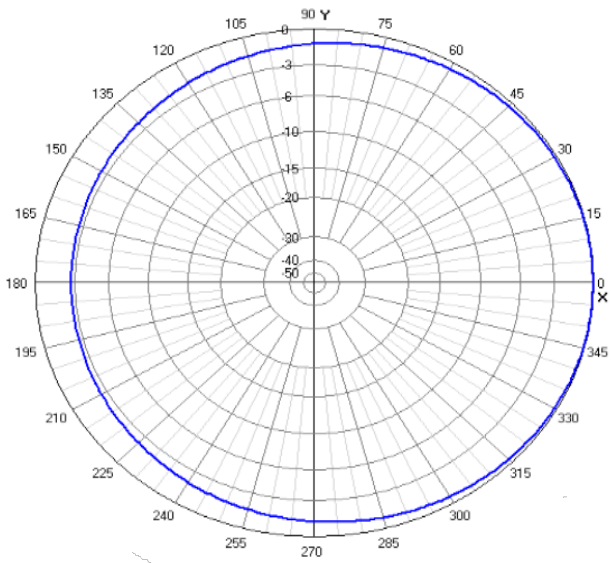
<b>Product Orders</b>	
Product Code	Description
ANT-400-420-010-OD10	UHF MiMO Co-Linear, 400-420MHz, 10dBi, 2 x N-Male
ANT-415-435-010-OD10	UHF MiMO Co-Linear, 415-435MHz, 10dBi, 2 x N-Male
ANT-440-460-010-OD10	UHF MiMO Co-Linear, 440-460MHz, 10dBi, 2 x N-Male
ANT-450-470-010-OD10	UHF MiMO Co-Linear, 450-470MHz, 10dBi, 2 x N-Male

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

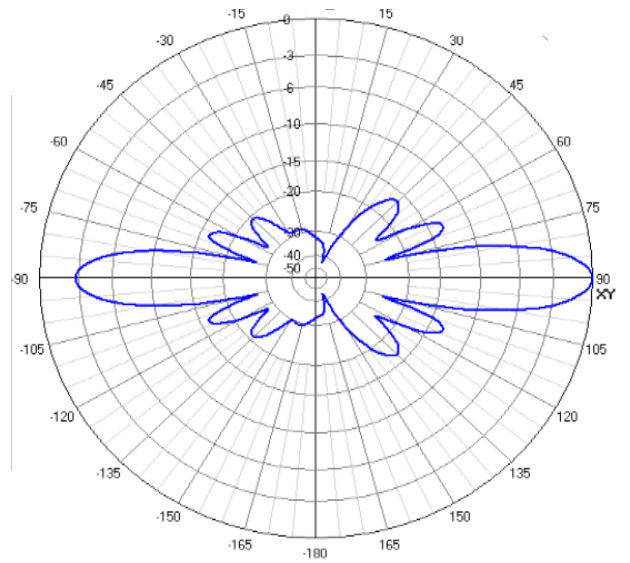


*Recommended Mounting Detail*

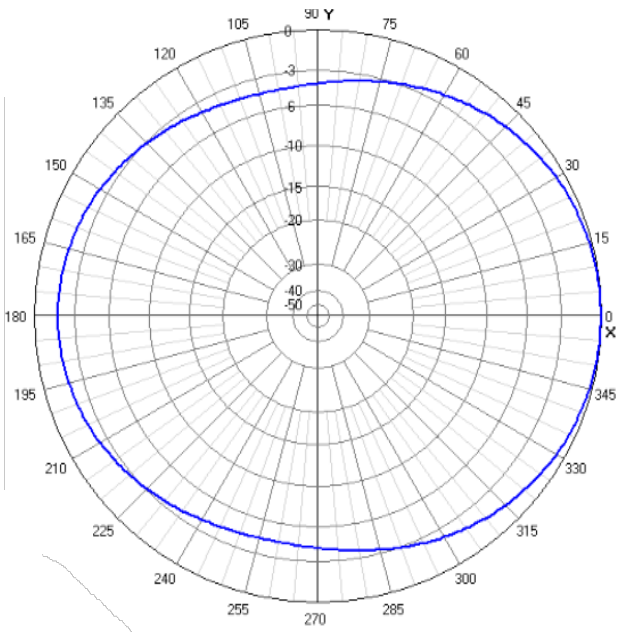
# CO-LINEAR OMNI DIRECTIONAL ANTENNA PATTERNS



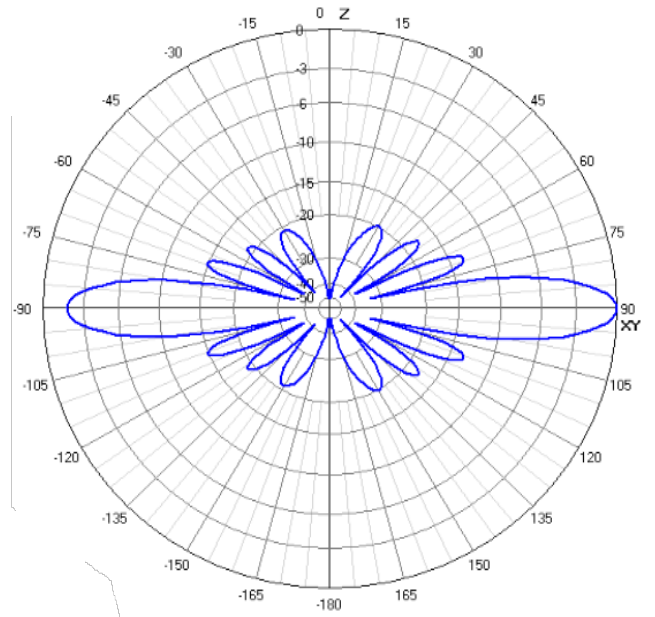
Vertical Polarization - Horizontal Plane



Vertical Polarization - Vertical Plane



Horizontal Polarization - Horizontal Plane



Horizontal Polarization - Vertical Plane