

# QLA- 360MPT-50

## TO ACQUISITION ANTENNA POSITIONER FOR MICROWAVE LoS & SATELITE



The QLA-360MPT-50 is a full sky program tracking antenna positioner designed from the ground up to automatically track Low Earth Orbit (LEO) satellites used for communications.

The embedded antenna controller has a full featured web based user interface which provides tools for rapid and accurate antenna pointing. The user interface includes manual control and status along with a stored satellite database and two line element set program track capability which allows for easy tracking of satellites in low or medium earth orbit. We also has a command line interface for customers that want to add our solution into a larger system.

The QLA-360MPT-50 is typically paired with 5 to 8 ft antennas, payloads 90 (up to 500lbs(159kg), and offers360°of azimuthand+/-180°) of elevation range. The positioner has an optional +/-10° tilt axis to eliminate keyhole effect seen in LEO satellites for direct overhead passes. Download the Interface Control Drawing (ICD) for more details. Optional riser stands, antenna adapter brackets, polarization rotators, and transit cases are also available.

### TECHNICAL SPECIFICATIONS - QLA-360MPT-50

Power	Power Over Ethernet (POE) 48VDC Supply Included
Material / Finish	Aluminum with stainless steel hardware / Hard coat anodize
Positioner Travel	
Azimuth	400° (+/-200°)
Elevation	180° (+/-90°)
Positioner Drive Rate	
Azimuth	Variable, up to 12°/sec no load
Elevation	Variable, up to 7°/sec no load
Temperature	
Operational	-22 to 140°F (-30 to 60°C)
Survival	-40 to 158°F (-40 to 70°C)
Feedback Resolution	0.1°
Backlash (Az/El)	less than 0.1°
Torque	
Continuous (Az/El)	25 ft-lbs / 40 ft-lbs (33.9 Nm / 54.2 Nm)
Peak (Az/El)	53 ft-lbs / 80 ft-lbs (71.9 Nm / 108.5 Nm)
Holding Non-Powered (Az/El)	13 ft-lbs / 20 ft-lbs (17.6 Nm / 27.1 Nm)
Payload (Including Counterweights)	200 lbs (90.7 kg)
Dimensions	Height: 21.38" (54.3 cm), Width: 11.50" (29.2 cm), Depth: 16.00" (40.6 cm)
Weight	99 lbs (44.9 kg) without Counterweight Kit
Mounting Interface	Table top mount (See ICD for details) Picture shown mounted to optional pedestal riser
Antenna Mount Options	1/2-13 threaded holes or 1/2" fastener clearance holes (See ICD for details)
Communication Interface	
User Interfaces	Web based hosted internal to unit
Ethernet	10/100 Ethernet
Serial	RS-232
Other	Satellite Modem Interfaces for Acquisition and Tracking