

## QPT-130 SERIES PAN & TILT POSITIONER



The QPT-130 Series of pan & tilt positioners is designed for a wide variety of applications. They are rugged and durable enough for virtually any environment. The QPT-130 can handle payloads up to 130 lb-ft. making it suitable for a wide range of sensors. Integrated Control (IC) units can communicate via networked PC or separate controller.

### AVAILABLE FEATURES

- Payloads up to 130 lb-ft.
- Digital integrated controller
- Fixed, inverted or mobile installations
- Mil-Spec connector
- Strengthened aluminum table top and stainless steel base for maximum strength and resistance to breakage in mobile environments
- Hardened steel worm drive with one-piece wormshaft for extreme durability in harsh environments
- Thermostatically controlled heaters
- Synchro-resolver position feedback featured on 7-55510

### SENSOR INTEGRATION

- Multi-Spectrum cameras (Visible / NIR / SWIR)
- Thermal imagers (LWIR)
- IR and visible illuminators
- Laser range finders
- Communication antennas
- Acoustic devices



# QPT-130 SERIES

## PERFORMANCE

Features	Model 7-45510A	Model 7-55510
Payload capacity	140 lbs.	
Payload torque	130 lb-ft. (176 Nm)	
Pan range of motion	435°	
Pan speed range @ rated voltage	1°-8°/sec	0.5°/s-8°/s
Tilt range of motion	180° (±90°)	
Tilt speed range @ rated voltage	1°-3°/sec	0.5°-3°/s
Repeatability	0.25°	0.05°
Positioning resolution	0.1°	0.01°
Position feedback	Potentiometers	Synchro-Resolvers
Hard limits (Mechanically adj.)	Pan & Tilt	
Soft limits (Software adj.)	Pan & Tilt	
Duty cycle	These positioners are designed for periodic movement. For applications requiring constant motion, please contact our team for solutions tailored to your use case and environment.	

## POWER

Features	Model 7-45510A	Model 7-55510
Operating voltage	24 VDC (± 2 VDC)	
Power consumption (Approx)	Idle 7.2 watts (0.3A)	2.4 watts (0.1A)
*Simultaneous pan & tilt move, fully loaded, without payload power	*Continuous 110 watts (4.6A)	
	*Peak 400 watts (16.5A)	
	Heaters 100 watts (4.2A)	110 watts (4.6A)
Regulated power to payload		
Pass through power to payload	Not an applicable specification for this product	

## COMMUNICATION

Features	Model 7-45510A	Model 7-55510
Communication method to positioner	RS232/RS422/RS485	RS232/RS422
Protocol	PTR-20/90 or PTCR-20	PTHR-90
Communication to payload		
Other pass through from base connector: (TP = twisted pair)	Not an applicable specification for this product	
Video connection		

## PHYSICAL PROPERTIES

Features	Model 7-45510A	Model 7-55510
Weight (w/o payload)	39.5 lbs. (18KG)	44 lbs. (20KG)
Dimensions	13.5" W x 12.5" H x 8.8" D	
Drive system	PM brush motors, hardened steel worm gear drive	

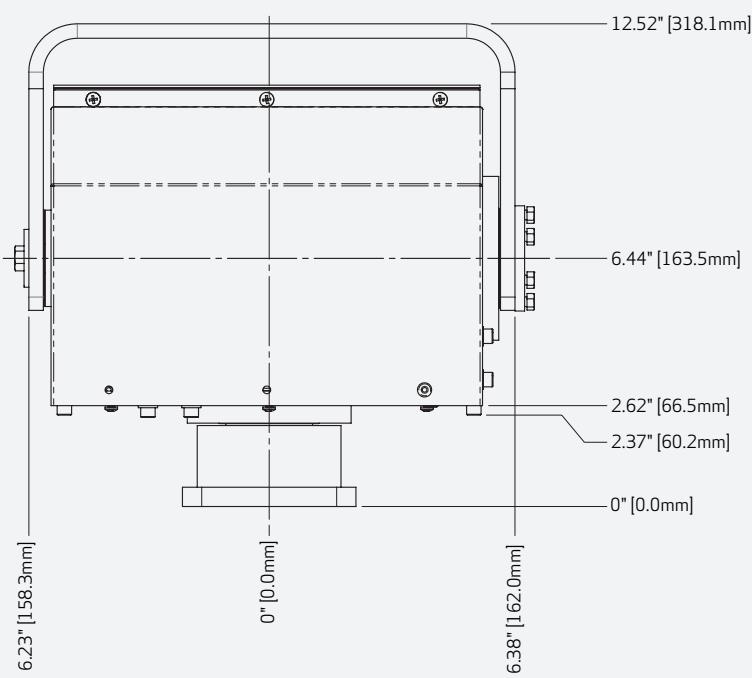
## CONSTRUCTION

Features	Model 7-45510A	Model 7-55510
Material	Aluminum 6061-T6 plate, stainless steel hardware, permanently sealed radial ball bearings.	
Exterior finish	Powder coat paint (std>) customer specified color	

## ENVIRONMENTAL

Features	Model 7-45510A	Model 7-55510
Operational temperature	-15°C to 55°C (5°F to 131°F) without heater -30°C to 55°C (-22°F to 131°F) with heater	
Environmental classification	IP40	

## ARCHITECTURAL AND DIMENSIONAL DRAWING





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