

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) *Simultaneous pan & tilt move, fully loaded, without payload power	Idle	7.2 watts (0.3A)	2.4 watts (0.1A)
	*Continuous	110 watts (4.6A)	
	*Peak	400 watts (16.5A)	
	Heaters	100 watts (4.2A)	110 watts (4.6A)
Regulated power to payload	Not an applicable specification for this product		
Pass through power to payload			

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	Not an applicable specification for this product	
Other pass through from base connector: (TP = twisted pair)		
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	

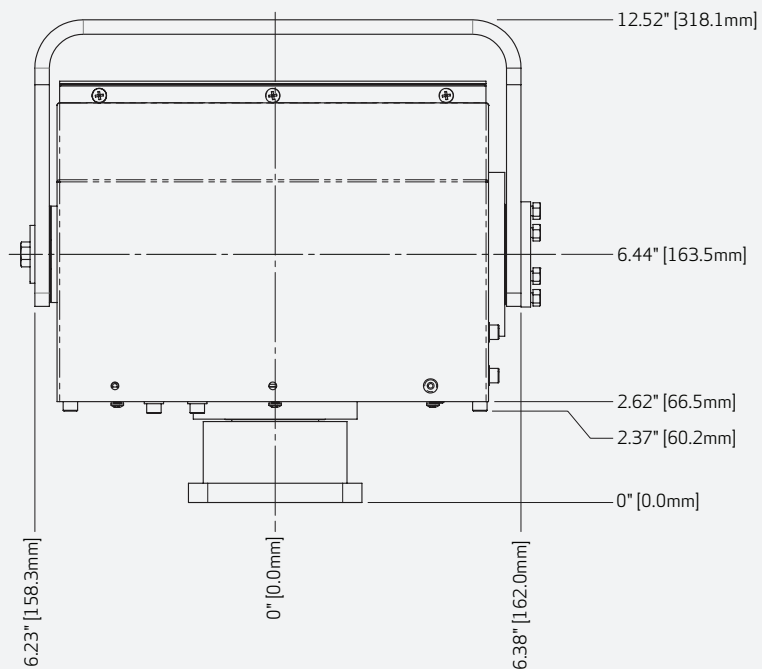
CONSTRUCTION

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



LOCATIONS

Argentina	India	South Africa
Australia	Ireland	South Korea
Austria	Italy	Spain
Brazil	Japan	Sweden
Canada	Luxembourg	Switzerland
Finland	The Netherlands	United Arab Emirates
France	Norway	United Kingdom
Germany	Philippines	United States
	Singapore	

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