



## QPT-130 Series

### Pan & Tilt Positioners

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 foot pounds making it suitable for a wide range of sensors. Multiple models are available to fit your needs. Integrated Control (IC) units can communicate via networked PC or separate controller. Analog units are inexpensive solutions where simple command and control are required without a PC.

#### AVAILABLE FEATURES

- Payloads up to 130 lb ft
- Analog driven or Digital Serial Integrated Controller (IC) models
- Internal wire table top for pass-through or IC sensor wiring on certain models
- Fixed, Inverted or Mobile Installations
- Mil-Spec Connectors
- Tough metal housing and gearing for durability in harsh environments
- RF pass-through connectivity (RF rotary joint, 1-3 channels)

#### 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

## Serial/IP Features

- Microprocessor control
- Software controlled with status feedback
- Serial Communication: RS232/422/485 and IP
- Control Protocols: QuickSet and Pelco D
- 2 programmable tours and 32 presets

## Analog Features

- Simple command and control with one controller for one positioner
- Azimuth/Elevation position feedback output
- Power supply integrated into controller

## Standard Performance

<b>Load Capacity</b>	130 lb ft (176 Nm) maximum
<b>Operating Voltage Range</b>	24VDC (±4VDC)
<b>Pan-Axis Range</b>	360° continuous rotation (slip ring) 435° (±217.5°) (non-slip ring)
<b>Pan-Axis Speed</b>	1° - 8°/sec
<b>Tilt-Axis Range</b>	180° (±90°)
<b>Tilt-Axis Speed</b>	1° - 4.5°
<b>Internal Heater</b>	Thermostatically controlled (32° on/35° off)
<b>Operating Temperature</b>	-15°C to 55°C (without heater)    -30°C to 55°C (with heater) 5°F to 131°F (without heater)    -22°F to 131°F (with heater)
<b>Rotational Limits</b>	Fixed tilt hard limit, adjustable soft limits on both axes
<b>Feedback</b>	Resolvers (0.01° readout)
<b>Repeatability</b>	0.25°
<b>Duty Cycle</b>	20%
<b>Motor Type/Drive</b>	DC Brush
<b>Communication to Pan &amp; Tilt</b>	RS232/422/485, IP Ethernet: 10/100 Base-T
<b>Communication to Sensors</b>	RS232/422
<b>Control Protocol</b>	QuickSet or Pelco D
<b>Connector Specifications</b>	Mil-Spec grade used on all configurations
<b>Materials</b>	Housing 6061-T6 Aluminum, stainless steel hardware, permanently sealed radial ball bearings.
<b>Finish/Color</b>	White powder coat paint over alodined chromate for corrosion resistance standard. Other colors and CARC available upon request
<b>Weight</b>	22 lbs (10 kg) to 36 lbs (16.3 kg) depending on model
<b>Dimensions</b>	See page 4
<b>Test Cable and Software</b>	6 ft test cable and software included with all IC and Sentry configurations

Note: Test software compatible with Windows-95 SP2, 98, ME, 2000 and XP version. Not compatible with NT. QuickSet control protocol documentation supplied. Different models may vary.



**Standard Housing**

## SERIAL/IP CONFIGURATION

DC Brush-Type Motor Configurations	
24 VDC	
<b>Pan Speed Range</b> (deg/sec)	1.0° – 8°
<b>Tilt Speed Range</b> (deg/sec)	1.0° – 4.5°
<b>Weight</b>	44 lbs (19.96 kg)

Note: Speed ranges dependent on model, weight and payload configuration - contact factory for details

## ANALOG CONFIGURATION

DC Brush-Type Motor Configurations	
115 VDC	
<b>Pan Speed Range</b> (deg/sec)	0.5° – 8.5°
<b>Tilt Speed Range</b> (deg/sec)	0.1° – 3°
<b>Weight</b>	44 lbs (19.96 kg)

Note: Speed ranges dependent on model, weight and payload configuration - contact factory for details

