

The QPT-50IC is part of the product line of “Smart” positioning systems which are significantly more versatile than basic pan and tilt units. These enhanced designs embed powerful microprocessor controllers, which can be effortlessly programmed to adjust limits of motion, pan and tilt speeds, and Azimuth/Elevation positions.

Functions include preset repeatable positions, tours, jog or direct manual entry with 12 bit absolute position feedback, convenient edit and adjustable dwell times. The “Smart” concept eliminates the need for separate interface electronics and is connected to the control station using a cost efficient “single cable feed”. No calibration or homing cycle is required for startup.

RS232/422/485 or optional Ethernet connectivity can be used to control both the pan and tilt functions as well as the instruments and equipment mounted on the positioner. QuickSet “Smart” systems interface with stabilization and tracking systems, on-screen displays, and system interface programs of various types.

The QPT-50IC includes auto-baud detection, and includes a 6 ft. test cable, other lengths of cable are available upon request.



Specifications (May vary from model to model)

Voltage:	24VDC	24VAC
Duty Cycle:	10% Intermittent Duty	10% Intermittent Duty
Load Capacity:	Up to 50ft.-lbs (22.67kg)	Up to 50ft.-lbs (22.67kg)
Pan Range:	435° (±217.5°)	435° (±217.5°)
Pan Speed Range:	1.7° - 25°/sec.	1.7° - 25°/sec.
Tilt Range:	180° (±90°)	180° (±90°)
Tilt Speed Range:	0.3° - 7°/sec.	0.3° - 7° / sec.
Motor Type:	DC Permanent Magnet	AC Permanent Magnet
Connector:	12 pin (mating connector included)	12 pin (mating connector included)

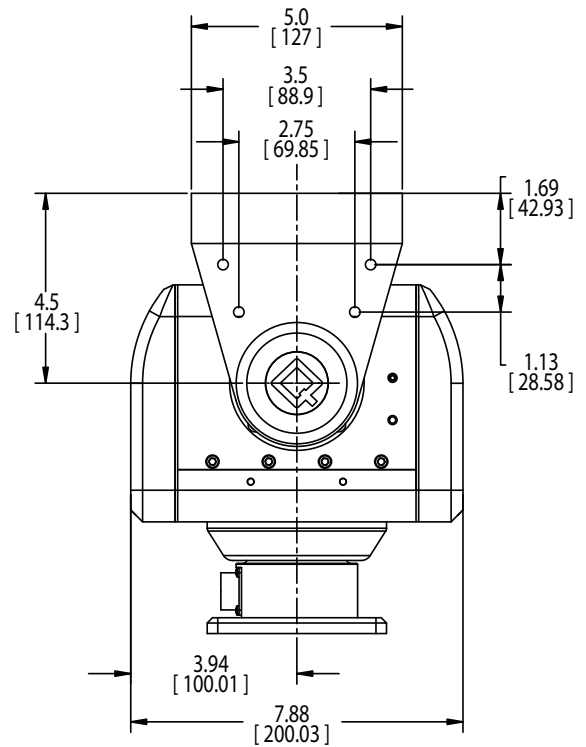
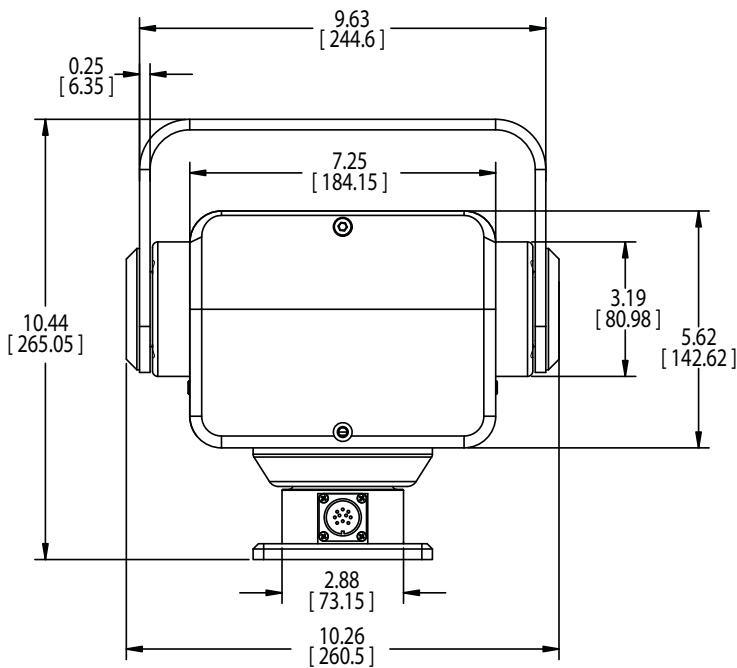
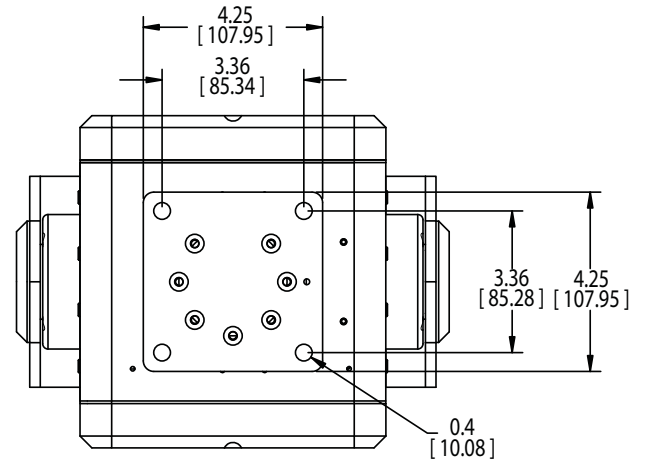
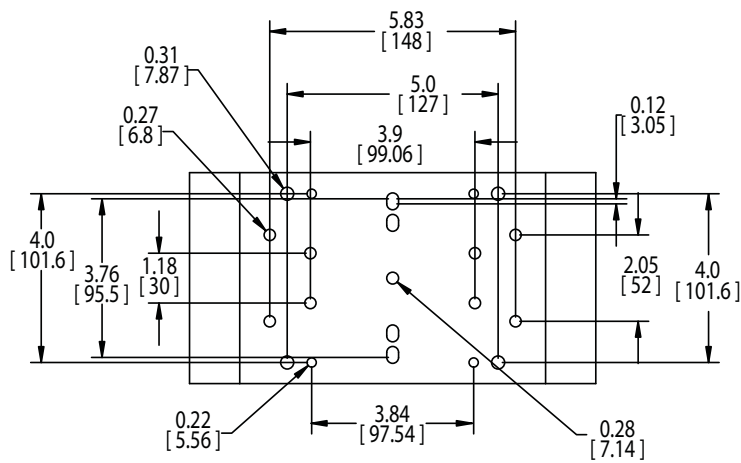
Specifications Continued

Current: (Peak)	5.5A for 10MS (Each axis); Run Pan 1A, Tilt 2A average; 2.8 to 3A for heater
Weight:	22 lbs. (10 kg.)
Dimensions:	10.44"H x 9.63"W x 7.88"D (265.05mmH x 244.60mmW x 200.03mmD)
Drivetrain:	Steel gear & coated steel worm
Limit Switches:	Internally adjustable "hard limits", electronically adjustable "soft limits"
Repeatability:	0.25°
Material:	Housing - Aluminum 6061 - T6, External Hardware - Stainless Steel
Exterior Color:	Marine white powder coat (other colors available)
Environmental Enclosure:	Marine, environmentally gasketed and sealed (IP-66)
Heater:	Available on all models
Salt Fog:	Tested per ASTM B117 500 hours at 12hr ON, 12hr OFF
Operating Temperature:	+5°F to +131°F (-15°C to +55°C) (without heater operating) -28°F to +131°F (-33C to +55°C) (with heater operating 2.8 to 3A draw)
Position Feedback	Potentiometers
Communication:	Comprehensive protocol command set allows complete operation control and configuration via EIA RS232, RS422 or RS485 communication Includes auto-baud detection and 6 ft. test cable
Set up commands include:	Electronic limit of motion for both pan and tilt Establishing 32 preset locations, including "home position" "Tour" feature allows construction of up to 63 steps of the preset positions with variable dwell times between them. Three tours may be stored in on board memory. Setting normal/reverse mode of movement and position feedback Alignment to local or global coordinates Includes test/operation software (Requires Windows 95 SR2, 98, ME or XP; not compatible with Windows NT or 2000.
Software includes:	Access to setup parameters Virtual joystick for jog position Visual analog and digital position indicators plus destination readouts "Move To" feature via absolute direct entry, delta direct entry, and "move to home" Set up and access of tour features Diagnostic communication and fault indicators Protocol Analyzer Move monitor allows logging of positions acquired.

Model List - QPT-50IC

(Specifications that vary from the above are listed next to specified model)

7-62100-MWS	24vdc, Marine White Finish
7-62101-MWS	24vac, Marine White Finish
7-62102-MWS	24vdc, 40°/sec Max Pan Speed, Marine White Finish
7-62103-MWS	24vac, 50°/sec Max Pan Speed, Marine White Finish



Dimensions are in inches [mm]
***Specifications are subject to change without notice**