

PT40 Pan & Tilt Positioning System



DESCRIPTION:

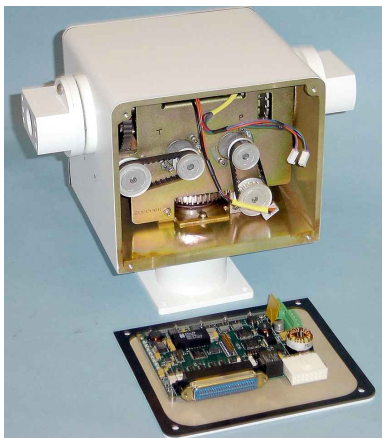
The PT40 is a versatile pan/tilt positioning system that is user-configurable for side mounting of payloads or 'over-the-top' traditional mounting of payloads. Weighing in at 21 lbs., the PT40 has continuous 360° degree rotation with a Pan speed of 60°/second (payload dependent) and Tilt speed of 30°/second.

Rated at IP-66, the PT40 is suitable for marine applications and can be configured to accept Marine Radar TTM Message Data for 'slew-to-cue' operations with the Radar. DIP switches on the Control Electronics allow configuring the PT40 for Pelco-P and Pelco-D protocols.

Incremental pan and tilt encoders with 2048 resolution provide position feedback and are also used to provide 'on-screen' display of pan/tilt position in azimuth and elevation.

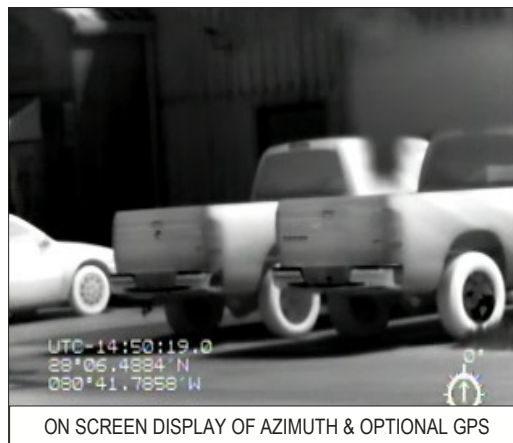


Side-mounted Camera Housings Optional and Over the Top



FEATURES

- Continuous 360° degree rotation.
- 60°/Sec. Pan Speed, 30°/Sec Tilt Speed
- Accepts Marine Radar TTM Message Data for Slew-to-Cue operation
- DIP switches for Pelco-P and Pelco-D Protocol
- Payload up to 50 lbs (side mount); up to 40 lbs on optional 'over-the-top' bracket.
- Incremental pan & tilt encoders with 2048 resolution
- Control Electronics mounted above slip ring assembly on rear access panel.
- Weight 21 lbs (without camera housings shown).
- On Screen Display of Pan/Tilt Position
- On Screen Display of Optional GPS or Compass



Part Numbers:

Side mounted camera housing: PT40-SM
 Over the top bracket housing: PT40-OTT



MODEL	PT40, IP 66-Rated. DESIGNED FOR MARINE ENVIRONMENT
VOLTAGE	12 –28 VDC
PAYLOAD CAPACITY	UP TO 50 LBS (Side-mounted, balanced) 40 LBS with Over-The- Top Mounting.
PAN RANGE	360 DEGREES CONTINUOUS
PAN SPEED	60°/SECOND WITH 30 LB. LOAD. SLOWER AT 50 LBS.
TILT RANGE	+60° -30° (INTERNAL LIMITS)
TILT SPEED	30°/SECOND
MOTOR TYPE	BRUSHED DC MOTORS, 12 VDC.
CONNECTOR	MILSPEC 15 PIN PT-02 CONNECTOR (MATING CONNECTOR SUPPLIED)
SIZE & WEIGHT	10.25"WIDE x 8.0" DEEP x 10.0" HEIGHT—WEIGHT 21 LBS.
DRIVE TRAIN	STAINLESS STEEL AND WORM. SELF-ALIGNING BEARINGS
MICROPROCESSOR CONTROL	CONTROL ELECTRONICS MOUNTED ABOVE SLIP RINGS. CONTROL VIA PELCO-P OR PELCO-D. HIGH SPEED PARALLEL-TO-CPU PORT FOR DAUGHTER PWB CONTROLLER PWB MOUNTED ON REAR COVER FOR EASY ACCESS
TILT LIMIT SWITCHES	INTERNAL. LIMIT PWB TOP MOUNTED IN HOUSING
REPEATABILITY	0.175 WITHOUT QUADRATURE, .005 WITH QUADRATURE
MATERIAL	HOUSING—ALUMINUM 6061-T6, HARDWARE STAINLESS STEEL
ENCLOSURE	TWO COVERS ENVIRONMENTALLY GASKETED AND SEALED
OPERATING TEMP. RANGE	0°C TO +70° WITHOUT HEATER
OPERATING TEMP. RANGE	-30°C TO +70° WITH HEATER
HEATER	OPTIONAL
POSITION FEEDBACK (PAN & TILT)	INCREMENTAL ENCODERS; TTL, SINGLE ENDED OUTPUT. 422/485 X, Y, FORMAT. 2048 RESOLUTION; INDEX PULSE ONCE PER REVOLUTION
SLIP RINGS	15 SLIP RINGS. 12 @ 2 AMPS & 3 @ 5 AMPS.
FINISH-INTERNAL	ALUMINUM—YELLOW IRIDITE
FINISH-EXTERNAL	WHITE POWDER COAT (OPTIONAL COLOR AVAILABLE)
BOTTOM MOUNT HOLE PATTERN	3.36 INCH SQUARE PATTERN OF 0.261 HOLES

Authorized Dealer

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