

PTU-D48-ISM E-SERIES

Compact, Stabilized, Extremely Rugged Pan/Tilt Unit

The PTU-D48-ISM E-Series provides high-performance stabilized positioning for payloads up to 10 pounds. Stabilization improves images while on the move and allows communications links to be maintained from air, ground, or sea platforms. The PTU-D48-ISM E-Series is an ideal OEM platform for a wide range of applications including slew-to-cue, video tracking, and antenna tracking.

The PTU-D48-ISM E-Series is based on FLIR's second generation ISM stabilization platform providing superior performance. The compact, all-in-one design simplifies cabling and improves reliability. The PTU-D48 E-Series supports any type of single or multi-part payload through a flexible bracketing system of top and/or side mounting and is simple to integrate.

The latest evolution of FLIR pan-tilts incorporates a powerful 32-bit core electronics platform and real-time operating system to deliver superior motion control fidelity and improve performance.

KEY FEATURES INCLUDE:

- 3-axis, integrated gyro
- Rigid worm gear design (no belts/pulleys)
- Solid and vibration-tolerant for maritime and vehicle-mounted applications
- Wide range of pan speeds (< 0.006°/sec to 100°/sec)
- Integrated Ethernet and Web interfaces
- Increased command rates, reduced jitter
- Advanced microstep control

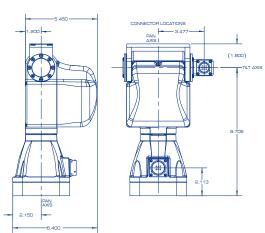
OPTIONS

- Payload brackets (top, side)
- Alternate colors/finishes
- Inertial stabilization
- Geo-pointing built in



Specifications

0 lb 0.003° c = 100°/sec 0.006°/sec = 100°/sec c = 50°/sec 0.003°/sec = 50°/sec 06° 0.006° 03° 0.003° mmable up to +30° to -90° from level (120° range) ammable up to +/-168° range, or 360 continuous. Up to 100% duty cycle On-the-fly speed and position changes 2 Axis (3-axis, strap-down gyro, 2 stabilized axes) Full pan-tilt range of motion <0.25° per axis @ 1 Hz (unloaded) Up to par/tilt maximum Accepts pan/tilt move commands while stabilized d 12-30 VDC (fastest performance & torque @ 30 VDC) tage/over-current protection meets MIL-STD-1275D move power mode), 26.4W (Regular move power mode) gh move power mode), 3.3W (Hold power off mode)
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PTU-Power (3c) - 12-30 VDC + shield -Control (7c) - RS-232 (3c) and RS-485/-422 (4c) an/tilt configuration/control, Payload Pass-Through (9-12c)
30 VDC max. @ 3 A, Video-1 (2c): NTSC/PAL/RS-170 Video-2 (2c): NTSC/PAL/RS-170 -Speed Pass-Through (4c): capable of 10baseT 30 VDC max. @ 1 A, Connector: 19-pin (MIL-C-26402)
RS-232, RS-485/422, Ethernet
SCII, Binary), Pelco-D (option), Nexus-compatible
12.4 lbs (with top bracket)
11.51" (h) \times 6.84" (w) \times 5.45" (d) (with top bracket)
Side and/or top
Pedestal
Machined aluminum
IP67 Certified
-30°C to 70°C (no heaters)
100% relative humidity, non-condensing
Sustained operation with 0.25" ice buildup
Sustained operation with 0.25 ice buildup Sustained exposure to blowing dust/sand
· •
IP67
MIL-810G Salt Spray



¹Unloaded. Maximum speed may depend on exact payload configuration and input voltage.

²Reduced speeds may be required for low temperature operation.

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