

FLIR PTU-D300[™] EX-SERIES

Large, Multi-Payload, Durable Pan/Tilt Unit

The PTU-D300EX E Series supports any type of single or multi-part payload through a flexible bracketing system of top and/or side mounting. It has been designed to be simple to integrate. The PTU-D300EX E Series is an open platform that provides the flexibility needed while minimizing your development and integration effort.

The PTU-D300EX E Series has been proven in a wide range of mission-critical applications for positioning of cameras, lasers, antennas, or other instruments in both fixed and mobile environments. The real-time command interface supports advanced applications such as video tracking.

It is designed for high duty cycles and reliable operation 24/7 in harsh all-weather environments. The low parts count, and highly integrated design provides unsurpassed system reliability.

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:

- Large payload capacity to 90 Lbs
- Extremely precise positioning (to 0.003° with microstep)
- Wide range of pan speeds 0.003°/sec to 22° for smooth, precise control
- 360-continuous pan
- Precise, real-time control of position, speed and acceleration
- Rigid worm gear design (no belts/pulleys) provides steady positioning in windy environments
- 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

Pan/Tilt Performance	Side Mount	Top Mount	
Max. Payload ¹	90 lb (41 kg)	60 lb (27.2 kg)	
Pan Speed Range ²	0.003°/sec - 22°/sec	0.003°/sec - 22°/sec	
Tilt Speed Range ²	0.003°/sec - 22°/sec	0.003°/sec - 22°/sec	
Resolution – Pan	0.003° (with microstep)	0.003° (with microstep)	
Resolution – Tilt	0.003° (with microstep)	0.003° (with microstep)	
Pan/Tilt Features			
Tilt Range	Programmable up to +30° to -90° from upright (120° range) (up to +/-90° with single side mount if specified at time of order.)		
Pan Range	Programmable up 360° continuous		
Duty Cycle	Up to 100% Duty Cycle, or 3-5 million cycles		
Acceleration/Deceleration	Programmable, on-the-fly speed and position changes		
Power Requirements			
Input Voltage	Unregulated 12-30 VDC (fastest performance & torque @ 30 VDC)		
Input Protection	Over-voltage/over-current protection meets MIL-STD-1275D		
Power Consumption	27.6.0W (Low move power mode), 37.5W (Regular move power mode)		
(Measured at 30 VDC)	60.0W (High move power mode), 3.3W (Hold power off mode)		
Connections & Commun	ications		
Base Connectors	PRIMARY: 32-pin (MIL-C-26482)Includes: PTU-Power (3c) - 9-30 VDC + shield PTU-Control (11c) - RS-232/-422/-485/Ethernet (4c) pan/tilt configuration/control Payload Signals (9-12c))		
Payload Signal Pass-Through	Power (2c): 30 VDC max @ 3 A max Video (4c) Other (3-6c): 30 VDC max @ 1 A max High-Speed Pass-Through (4c): capable of 10baseT		
Computer Controls	RS-232, RS-485/422, Ethernet		
Control Protocols	DP (ASCII, Binary), Pelco-D (option), Nexus-compatible		
Mechanical			
PTU Weight	28 lb (12.7 kg) (Standa	8 lb (12.7 kg) (Standard bracket: 1.25 lb)	
PTU Dimensions	Pan/Tilt Only: 13.01" (h) × 7.07" (w) × 8.53" (d) (without brackets)		
Payload Mounting	Side-mount, top-mount, dual-side+top mount		
PTU Mounting	Pedestal		
Material	Aluminum		
Packaging & Environme	ntal		
Standards	IP67 Certified		
Operating Temperature ³	-30°C to 70°C (no heaters)		
Humidity	100% relative humidity, non-condensing		
Ice (Operating)	Sustained operation with 0.25" ice buildup		
Dust/Sand (Operating)	Sustained exposure to blowing dust/sand		
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 1 Over-the-top payload assumes COG < 6" from tilt axis; over the side payload assumes balanced COG.

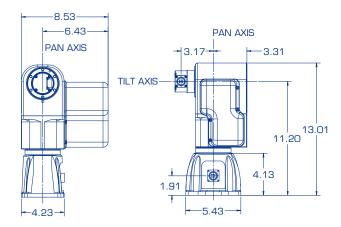
IP67

MIL-STD-810G Salt Spray
Black anodized & powder coated; custom colors/finishes available

MIL-STD-810G Method 514.6 Vibration, Method 516.6 Drop Test,

Method 516.6 Shock

CE Mark and FCC Part 15, Subpart B, Class A



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16-0413-0EM-MCS-D300EX-Series



Wind/Rain/Fog

Salt Spray

Color/Finish

Certifications

EMI

Shock/Vibration

²Maximum speed may depend on exact payload inertia and input voltage.

³Reduced speeds may be required for low temperature operation.