

FLIR PTU-D300° E-SERIES-GigE

Large, Multi-Payload, Durable Pan/Tilt Unit with Gigabit Ethernet pass through and configurable I/O

The PTU-D300 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-D300 E Series is an open platform that provides the flexibility needed while minimizing your development and integration effort.

The PTU-D300 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 update to the D300 E Series family, the D300E-GigE offers Gigabit Ethernet pass through to the payload, and configurable I/O, making integration with high speed payloads even easier.

KEY FEATURES INCLUDE:

- Large payload capacity to 70 Lbs or 90 Lbs with EX gearing
- Extremely precise positioning (to 0.0064° with microstep), or 0.003° with EX gearing
- Wide range of pan speeds 0.0064°/sec to 50° or 22° with EX gearing for smooth, precise control
- 360-continuous pan
- · Gigabit Ethernet pass through
- Software-configurable payload wiring
- 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 available
- Geo-pointing built in



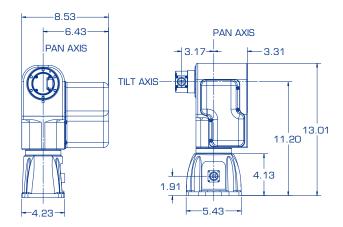
Specifications

Pan/Tilt Performance	Side Mount	Top Mount	
Max. Payload ¹	70 lb (31.7 kg)	35 lb (15.8 kg)	
Pan Speed Range ²	0.0064°/sec - 50°/sec	0.0064°/sec - 50°/sec	
Tilt Speed Range ²	0.0064°/sec - 50°/sec	0.0064°/sec - 50°/sec	
Resolution – Pan	0.0064° (with microstep)	0.0064° (with microstep)	
Resolution – Tilt	0.0064° (with microstep)	0.0064° (with microstep)	
Pan/Tilt Features			
Tilt Range	Programmable up to +30° to -90° from upright (120° range) (up to +/-90° with side mount , if specified at time of order.)		
Pan Range	Programmable up to +/- 168° or 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 (Measured at 30 VDC)	33.0W (Low move power mode), 45.0W (Regular move power mode) 63.0W (High move power mode), 3.3W (Hold power off mode)		
Connections & Communications			

Connections & Comm	unications	
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	Configurable:	
	Power (2c): 30 VDC max @3A max	
	Shield (1c)	
	Video (4c)	
	Other (4c): 30 VDC max @ 1A max	
	Gigabit Ethernet Pass-Through (8c)	
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) (Standard bracket: 1.25 lb	
PTU Dimensions	13.01"(h) × 7.07"(w) × 8.53"(d) Note: side cover panel dimension increased by 1.5mm. CAD model available	
Payload Mounting	Single/dual-side mount, top mount	
PTU Mounting	Pedestal	
Material	Aluminum	
Packaging & Environ	nental	
Standards	IP67 Certified	

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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	
Wind/Rain/Fog	IP67	
Salt Spray	MIL-810G Salt Spray	
Color/Finish	Black anodized & powder coated; custom colors/finishes available	
Shock/Vibration Certifications	MIL-STD-810G Method 514.6 Vibration, Method 516.6 Drop Test, Method 516.6 Shock	
EMI	CE Mark and FCC Part 15, Subpart B, Class A	

 $^1 O ver-the-top\ payload\ assumes\ COG<6''\ from\ tilt\ axis;\ over\ the\ side\ payload\ assumes\ balanced\ COG.$



Your authorized FLIR distributor:



173 Technology Drive, STE 150 Irvine, CA 92618

Phone: (949) 699-6600

Email: info@movitherm.com
http://www.movitherm.com

CORPORATE HEADQUARTERS

FLIR Systems, Inc. 27700 SW Parkway Ave. Wilsonville, OR 97070 PH: +1 877.773.3547

SANTA BARBARA

FLIR Systems, Inc. 6769 Hollister Ave. Goleta, CA 93117 PH: +1 805.690.6602

CHINA

FLIR Systems Co., Ltd Room 502, West Wing, Hanwei Building No. 7 Guanghua Ave. Chaoyang District, Beijing 100004, China Phone: +86 10-59797755

EUROPE

FLIR Systems, Inc. Luxemburgstraat 2 2321 Meer Belgium PH: +32 (0) 3665 5100

www.flir.com NASDAQ: FLIR

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

³Reduced speeds may be required for low temperature operation.