

FLIRPTU-E46

Miniature Computer-Controlled Pan/Tilt Unit

The PTU-E46 family of miniature pan/tilt units provide fast, precise positioning in an extremely small and lightweight package. They are fully computer-controlled and offer programmability of speed, acceleration, power, and other parameters. The included controller, with built-in RS-232, Ethernet, and RS-485 interfaces, handles precise kinematic motion control according to user-set parameters. The PTU-E46 units accept ASCII and binary command formats and is networkable. Commands can be sent at high speeds for demanding applications, such as laser scanning and video tracking.

KEY FEATURES INCLUDE:

- Precise control of position, speed, and acceleration at low cost
- Simple to use from any RS-232 terminal or web browser
- Small form factor (<5.2" tall and <3 lb)
- Single DC power input suited for battery operation
- Rigid worm gear design; no belts/pulleys- ASCII command mode for simplicity; binary commands available for high-performance

NEW FEATURES

- Built-in Ethernet interface (web or TCP/IP)
- Built-in geo-pointing (GPM)
- Increased command rates
- PTU-SDK (software development kit) supported
- Pelco-D supported
- Backwards compatible with D46

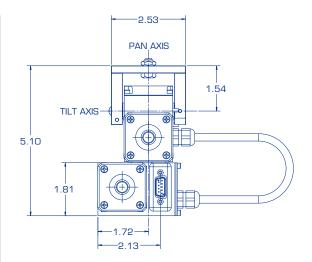
OPTIONS

- International AC/DC Power Supply
- Weatherization for outdoor use
- Nodal (gimbal) payload aligned to motion axes



Specifications

Pan/Tilt Performance	PTU-E46-17	PTU-E46-70	PTU-E46-17P70T	
Rated Payload	6 lb (2.72 kg)	9 lb (4.08 kg)	9 lb (4.08 kg)	
Max. Unloaded Speed (@ 30 VDC)	300°/second	60°/second	Pan: 300°/second Tilt: 60°/second	
Resolution	0.013°	0.003°	Pan: 0.013° Tilt: 0.003°	
Pan/Tilt Features				
Tilt Range	-47° to +31° from level (78° range) with limits disabled for 80° down (111° range)			
Pan Range	+/- 159° (+/- 180° with extended range mode enabled)			
Min. Pan Speed	<min. resolution="">/second</min.>			
Min. Tilt Speed	<min. resolution="">/second</min.>			
Duty Cycle	Up to 100% duty cycle, or 3-5 million cycles			
Acceleration/Deceleration	On-the-fly speed and position changes			
Power Requirement	S			
Input Voltage	12-30 VDC unregulated (fastest performance and torque @ 30 VDC)			
Power Consumption (Measured at 30 VDC)	13 W continuous peak (full power mode) 6 W continuous peak (low power mode) 1 W continuous peak (holding power off mode)			
Connections & Com	munications			
Host Interface	RS-232 (DB-9 female connector) RS-422/-485 (RJ-12connector), Ethernet			
Networking	Control of multiple pan/tilt units from one or more host computers. Multi-drop RS-485 network using RJ-12.			
Control Protocols	DP (ASCII, Binary), Pelco-D			
Mechanical				
PTU Weight	3 lb			
PTU Dimensions	3" (h) × 5.13" (w) × 4.25" (d)			
Payload Mounting	Hole for 1/4-20 screw standard. Camera mounting plate removes for easy customizing.			
PTU Mounting	Bottom or front 1/4-20 mounting			
Controller Weight	8 oz			
Controller Dimensions	1.25" (h) × 3.25" (w) × 4.5" (d)			
Packaging & Enviro	nmental			
Operating Temperature*	-20°C to 60°C			
Humidity	100% relative humidity, non-condensing			
Dust/Sand (Operating)	Sustained exposure to blowing dust/sand			
Color/Finish	Black anodized			
EMI	CE	CE Mark and FCC Part 15, Subpart B, Class A		



*Reduced speeds may be required for low temperature operation.

SANTA BARBARA

FLIR Systems, Inc. 6769 Hollister Ave. Goleta, CA 93117 USA

PH: +1 805.964.9797

PORTLAND

Corporate Headquarters FLIR Systems, Inc. 27700 SW Parkway Ave. Wilsonville, OR 97070 USA

PH: +1 866.477.3687

BELGIUM

FLIR Systems Luxemburgstraat 2 2321 Meer Belgium PH: +32 (0) 3665 5100 CHINA - SHANGHAI FLIR Systems, Co., Ltd.

K301-302, No.26 Lane 168, Daduhe Road, Putuo District, Shanghai 200062, P.R. China PH: +86-21-5169 7628

www.flir.com NASDAQ: FLIR

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