

# FLIR PTU-5™

## Small, Lightweight, High-Performance Pan/Tilt

Standing only six inches tall when fully integrated, the new FLIR PTU-5 can hold up to five pounds on its top bracket, packing incredible performance into a compact package. Even with its small size the PTU-5 is more accurate than many other – more expensive – systems thanks to the absolute encoders used on the drive axes. Fully sealed and weather-proof rated to IP67, the PTU-5 can be used anywhere, even outdoors. By doing away with the separate controller box, and including a unique ability to home the axes without returning to zero, the PTU-5 is easy to set-up and has a fast start-up sequence. PTU-5 is the lightweight, low-cost, easy to integrate pan/tilt solution demanding OEM integrators have been looking for.

## CLASS-LEADING SPEED AND ACCURACY

*Turn on and track moving targets in seconds*

- Absolute encoders ensure accuracy and repeatability to 0.1° and provide robust reliability
- Pan speeds up to 150 degrees per second
- Fast start-up time – reset complete less than 5 seconds after power on
- High holding torque – doesn't droop on power off

## EXTRA SMALL, RUGGED, PORTABLE DESIGN

*Lightweight, MIL-spec system for harsh environments*

- 4.9(w) x 6.2(h) x 6(d) inches, with integrated micro controller; no extra box needed
- 4.7 lb total weight
- Small swept volume of 0.17 ft<sup>3</sup> with no external motor cable
- Weatherproof, IP67 certified
- MIL-STD shock and vibration certified

## EASY INTEGRATION

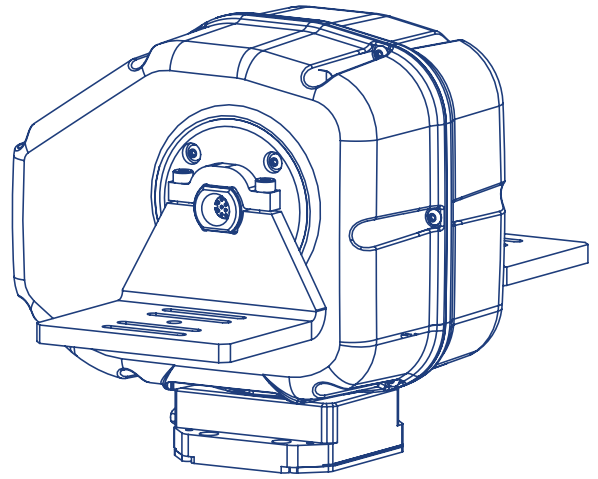
Flexibility for a wide range of applications and sensors

- Shares common firmware with other FLIR PTUs
- Simple cabling – connects directly to power and host PC
- Slip ring enables continuous rotation with no external cables to payload
- Top or side bracket options - supports 5 lb top-mounted



## Specifications

Pan/Tilt Performance	
Rated Payload	5 lb top mount; 6 lb total side mount
Resolution	0.05°
Accuracy	0.1°
Pan/Tilt Features	
Tilt Range	+/- 90° (side mount only)
Pan Range	360° continuous pan
Min Pan Speed	0.05°/s
Min Tilt Speed	0.05°/s
Max Pan Speed	150°/s
Max Tilt Speed	50°/s
Duty Cycle	100%
Acceleration/Deceleration	Programmable
Power Requirements	
Input Voltage	12-30 VDC
Power Consumption (measured at 30 VDC)	40 W peak, 20 W average, 5 W no motion
Connections & Communications	
ADK Dimensions (camera & housing)	38 x 38 x 42.5 mm (w x h x d)
Camera & Lens only	21 x 21 x 26.7 mm (w x h x d)
Camera Weight	56.25 g (camera only) 116.12 g (camera and mounting bracket)
Mechanical	
Weight	4.7 lb (-2.1 kg)
Dimensions	6.2 x 4.9 x 6 in (-158 x 125 x 153 mm)
Swept Volume	0.17 cubic feet, with no external motor cable
Payload Mounting	Single top mount or dual side
PTU Mounting	4 bolt pattern
Packaging & Environmental	
Operating Temperature	-20°C to +60°C
Humidity	IEC 60945, 93% humidity at 40°C
Dust/Sand (Operating)	IP67
Color/Finish	Gray fine texture semi-gloss
EMI	CE, FCC Class A



PTU-5

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