

HI-PTU050-DSG STABILIZED PAN - TILT UNIT

KEY FEATURES

- High precision, real-time payload stabilization
- RS-232, RS-486, Ethernet Communication Inte
- Load capacity 12 pounds (5.45 kg)
- Fast speed response up to 150°/second
- Pan / Tilt Resolution up to 0.0028°
- Instantaneous position and speed changes
- Single DC power input (21-26VDC) suitable for
- Lightweight (16 lbs - 7.25 kg) & compact design



APPLICATIONS

The HI-PTU050-DSG stabilized pan-tilt unit provides accurate gyro stabilization with a wide range of motion for precise observation and real-time positioning of cameras, lasers and other payloads.

Typical applications include long-range target acquisition for land and navy, and independent outdoor fixed or mobile surveillance.

DUAL-AXIS GYRO STABILIZED PLATFORM MOUNTED SYSTEM FOR SEA, AIR AND GROUND APPLICATIONS

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HI-PTU050-DSG STABILIZED PAN - TILT UNIT

OVERVIEW

The HI-PTU050-DSG (Dual Stabilization Gyroscopes) offers high precision, user-controlled position and speed movements for payloads up to 12 pounds. Stabilization and real-time control is achieved using precise stepper motors, suitable for intense applications in all weather conditions. A fully integrated design provides unparalleled system reliability and effortless integration to existing systems, minimizing integration and development costs.

SPECIFICATIONS

Payload capacity	12 lbs (5.45 kg)
Pan range of motion	continuous 360° motion with slip ring (user programmable limits available)
Tilt range of motion	+80° to - 130° (210° range) (user programmable limits available)
Position resolution (pan/tilt)	0.0028°
Pan / Tilt speeds (min – max)	< 0.0028°/sec - 150°/sec
Host interfaces	RS-232, RS-485, Ethernet
Payload pass-through wiring	3 x 5Amps (power lines) 11 x 2Amps (signal lines)
Input voltage	21-26VDC with protection up to 1,000VDC
Power Consumption	2Amps @24VDC continuous
Weight	16 lbs (7.25 kg)
Operating Temperature	-30°C to +70°C
Weatherization	IP67
Shock/Vibe	MIL-810F

OPTIONS & ACCESSORIES

Connection cables	Custom Cables, Breakout cables (Top & Bottom connections)
Connector accessories	90° angle connector, Custom Connector Kits
Power Supply Unit	AC 220 - 240V ~50Hz to 24VDC 5Amps

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