KEY FEATURES

- High precision, real-time payload stabilization
- RS-232, RS-485, Ethernet Communication Interface
- 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.
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