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# PTU-D47

## Fully-Integrated, Computer-Controlled Positioning

The PTU-D47 computer-controlled pan/tilt is compact, lightweight, versatile, and field-proven across hundreds of applications. It offers a low-cost, off-the-shelf solution for positioning camera, laser, antenna, or other payloads up to 12 pounds. It features a fully-integrated, mil-style controller with a single weatherized connection for power and pan/tilt control, as well as payload signal management (optional) in outdoor fixed and mobile applications. The side-mount bracket allows positioning payloads for a lower center-of-gravity, and for mounting multiple payloads (top and side).

### KEY FEATURES INCLUDE:

- Positions any payload: IP cameras, antennas, lasers
- Smooth, repeatable motion provides steady images in windy environments
- Solid and vibration-tolerant for vehicle-mounted applications
- Rigid worm gear design; no belts/pulleys
- High holding torque (no sag when powered off)
- Wide range of pan speeds (< 0.01°/sec. to 300°/sec.)
- Extremely precise positioning (0.01°) allows translating object positions to map coordinates accurately
- Integrated controller – no other electronics box required
- Flexible payload mounting (top and/or side)
- Single connector for all video, control, power interfaces
- Precise control of position, speed, and acceleration
- Simple control from host computer via RS-232/-485
- Fully sealed for outdoor/marine applications (IP66)
- CE Mark certification

### OPTIONS

- Geo-Pointing Module: powerful command set supports real-time detection and tracking applications including absolute angle, relative angle, velocity control, geo-pointing (lat/lon); continuous velocity control
- Ethernet/IP Interface Module
- Payload wiring: flying leads from base to payload

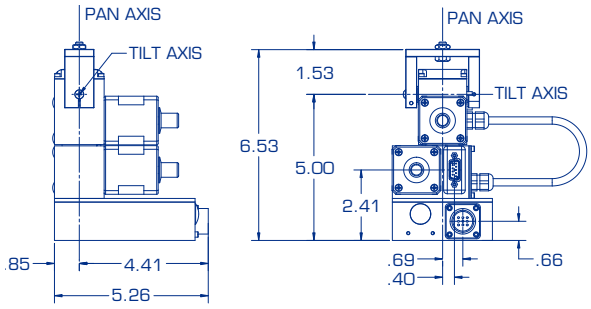
## Specifications

| Pan/Tilt Performance | Side Mount |
|---|---|
| Rated Payload[1] | 12 lb |
| Max. Pan Speed[2] | 300°/second |
| Max. Tilt Speed | 60°/second |
| Resolution – Pan | 0.013° |
| Resolution – Tilt | 0.003° |
| **Pan/Tilt Features** | |
| Tilt Range | -47° to +31° from level (78° range) |
| Pan Range | +/- 159° (+/- 180° with extended range mode) |
| Min. Pan Speed | .003°/second (with microstepping) |
| Min. Tilt Speed | .013°/second |
| Duty Cycle | Up to 100% duty cycle, or 3-5 million cycles |
| Acceleration/Deceleration | On-the-fly speed and position changes |
| **Power Requirements** | |
| Input Voltage | Unregulated 12-30 VDC<br>(fastest performance & torque @ 30 VDC) |
| Power Consumption<br>(Measured at 30 VDC) | 13 W continuous peak (full power mode)<br>6 W continuous peak (low power mode (default)<br>1 W continuous peak (holding power off mode) |
| **Connections & Communications** | |
| Base Connectors | Power (2c): 30 VDC max. @ 2 A max.<br>Video (2c) Communications (4c): RS-232/-422 |
| Payload Signal Pass-Through | Power (2c): 30 VDC max. @ 3 A max.<br>Video (4c): 2x Video or 1x Ethernet (10baseT)<br>Other (2c): 30 VDC max. @ 1 A max. |
| Computer Controls | RS-232 standard; Built-in multi-drop RS-485 networking |
| Control Protocols | DP (ASCII, Binary) |
| **Mechanical** | |
| PTU Weight | 5.38 lb (2.44 kg) |
| PTU Dimensions | 6.493" (h) × 8.397" (w) × 5.27" (d) |
| Payload Mounting | Side and/or top |
| PTU Mounting | Pedestal |
| Material | Machined aluminum |
| **Packaging & Environmental** | |
| Standards | Designed to IP66 |
| Operating Temperature[3] | -20°C to 60°C |
| Humidity | 100% relative humidity, non-condensing |
| Dust/Sand (Operating) | Sustained exposure to blowing dust/sand |
| Wind/Rain/Fog | IP66 |
| Color/Finish | Black anodized |
| EMI | CE Mark and FCC Part 15, Subpart B, Class A |

[1]Side-mounted payload assumes COG < 1" from tilt axis.

[2]Unloaded. Maximum speed may depend on exact payload configuration and dynamics.

[3]Reduced speeds may be required for low temperature operation.




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