

OUTDOOR PAN-TILT UNIT

Compact, Precise, Modular

Model PTU-D47

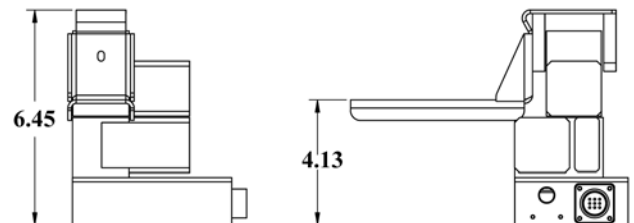
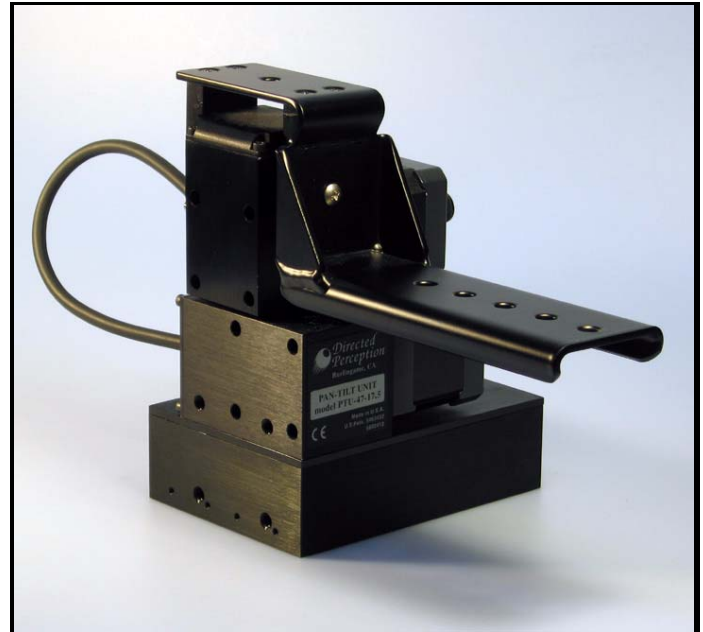
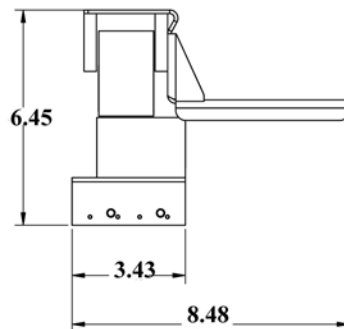
Fully Integrated, Computer-Controlled Positioning

The PTU-D47 is a family of integrated computer-controlled pan-tilt units designed for intelligent positioning and control of camera, laser, antenna, and other payloads to 12 lbs. It is a fully integrated design with single weatherized connection for power, control, and camera/payload signals. Its compact size and light weight make it ideal for mast/pole mount and vehicle applications. Payloads can be side and/or top mounted. The PTU-D47 withstands high duty-cycles and offers long-life in harsh all-weather environments. Key features include:

- Positions any payload: IP cameras, antennas, lasers
- Smooth, repeatable motion and rigid design provides steady images in windy environments
- Powerful command set supports real-time detection and tracking applications: absolute angle, relative angle, velocity control, geo-pointing (lat/lon) with GPM option
- Solid and vibration-tolerant for vehicle applications
- Wide-range of pan speeds (< 0.01°/sec. to 300°/sec.)
- Extremely precise positioning (0.01°) allows moving object positions to map coordinates accurately
- Single connector for all video, control, power
- Flexible payload mounting (top and/or side)
- Integrated controller - no other electronics box required
- Computer interface via RS-232/485 or Ethernet (option)
- Fully sealed for outdoor applications (IP66)

Applications:

- Perimeter surveillance
- Automated antenna pointing
- Harbor / Port monitoring
- Laser ranging systems
- Video detection & tracking
- Industrial automation
- Vehicle surveillance systems
- Law Enforcement
- Force Protection



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Technical Specifications

General Features

- Rigid design
- Solid and vibration-tolerant
- Single connector for all video, control, power
- Flexible payload mounting (top and/or side)
- Integrated controller - no external box
- Precise control of position, speed & acceleration
- CE Mark certified
- Single DC power input

Pan-Tilt Performance

	Side Mount
Rated Payload ^a	12 lbs.
Max. Pan speed ^b	300°/second
Max. Tilt speed	60°/second
Resolution - Pan	0.051° (3.09 arc minutes)
Resolution - Tilt	0.013° (0.77 arc minutes)

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

b. Unloaded. Max. speed may depend on exact payload configuration and dynamics.

Tilt Range: -47° to +31° from level (78° range)

Pan Range: +/- 159° (+/- 180° with extended range mode)

Pan Speed Min: .05° /sec (0.01° with microstepping)

Tilt Speed Min: .01° /sec

Duty Cycle: Up to 100% duty cycle, or 3-5 million cycles

Acceleration/Deceleration: Trapezoidal. On-the-fly speed and position changes.

Power Requirements

Input Voltage: unregulated 9-30VDC (fastest performance & torque @ 30VDC)

Power Consumption (measured at 30VDC):

13W continuous peak(full-power mode)

6W continuous peak(low-power mode (default))

1W continuous peak(holding power off mode)

Connections & Communications

Base Connector PRIMARY: AMP (MIL-C-26482). Includes:
PTU-Power (3C) - 9-30VDC + shield
PTU-Control (7C) - RS-232(3C) and RS-485 (4C)
Payload Signals (8C)

Payload Signal Pass Through:

Power (2C): 30VDC max @ 2A max

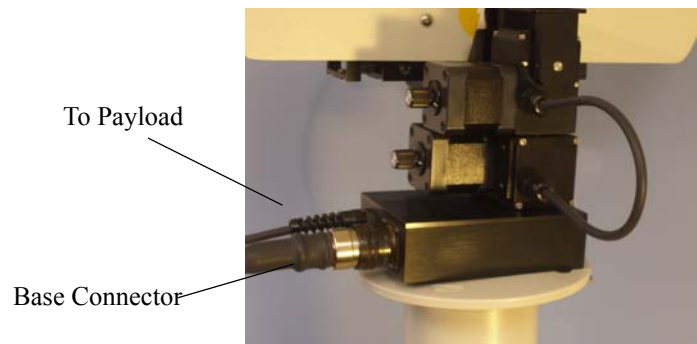
Video (2C):

Communications (4C): RS-232/422

Computer Controls: RS-232 standard;

Built-in multidrop RS-485 networking

Control Protocols: DP (ASCII, Binary)



Mechanical

Weight: 5.38 lbs. (2.44 kg)

Dimensions: 6.493" H x 8.397" W x 5.27" D

Payload Mounting: side and/or top

PTU Mounting: Pedestal mount

Material: Machined aluminum

Packaging & Environmental

Standards: Designed to IP66

Operating Temperature: -20°C to 60°C

Non-operating Temperature: -20°C to 60°C

Humidity: 100% relative humidity

Dust/Sand (operating): sustained exposure to blowing dust/sand

Wind/Rain/Fog: IP66

Color/Finish: Black anodized

EMI: FCC Part 15, part B Class A

Options

- Payload wiring - flying leads from base to payload
- Custom payload brackets (special order)
- Geo-Pointing Module (Part# PTU-DGPM)
- Ethernet/IP Interface Module (Part# PTU-DGPM)
- Inertial Stabilization Module (special order)

Specifications subject to change without notice.