

PT570P/PT570-24P Pan/Tilt

OUTDOOR, MEDIUM DUTY

Product Features

- Easily Serviced
- Inverted Operation
- External Limit Stops
- Outdoor Applications
- Adjustable Worm-Gear Final Drive
- 120 VAC or 24 VAC Operation
- Capable of Auto/Random Scan Operation when Used with Appropriate Control
- Maximum Load 40 Pounds (18.14 kg)

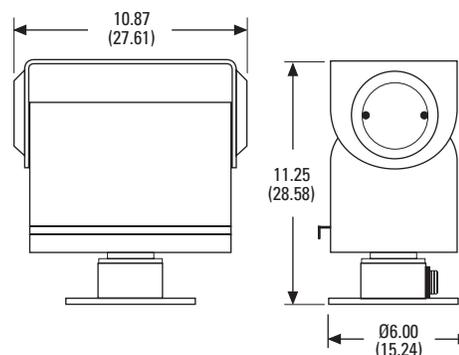
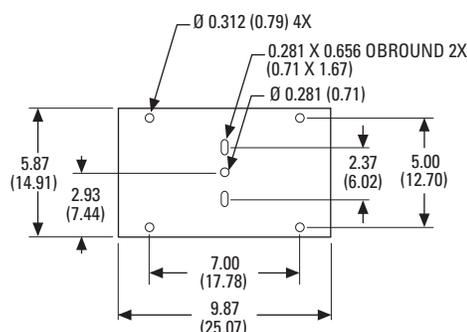


The **PT570P** and the **PT570-24P** are medium duty pan/tilts designed for outdoor applications. Both units feature rugged worm-gear final drives to minimize backlash and prevent wind drift. The drives are fully adjustable for wear.

Control voltages are 120 VAC for the **PT570P** and 24 VAC for the **PT570-24P**. Construction is of aluminum, and the units are completely sealed for all-weather use. The **PT570P** and **PT570-24P** will accept a maximum load of 40 pounds (18.14 kg) and are recommended for use with our EH4700 Series environmental enclosures.

Optional blanket heater available to allow operation to -50°F (-45°C).

Over twenty years of quality design and manufacturing have resulted in pan/tilts which provide long, reliable operation.



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS;
ALL OTHERS ARE INCHES.



TECHNICAL SPECIFICATIONS

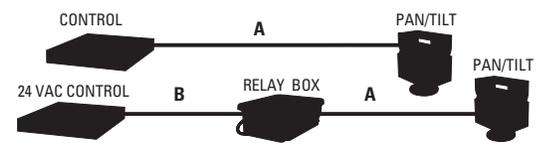
MODELS

| | |
|--------------|--------------------------------------------|
| PT570P | Medium duty pan/tilt, 120 VAC |
| PT570P/PP | Medium duty pan/tilt with presets, 120 VAC |
| PT570-24P | Medium duty pan/tilt, 24 VAC |
| PT570-24P/PP | Medium duty pan/tilt with presets, 24 VAC |

ELECTRICAL

| | | PT570P | PT570-24P |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|
| Input Voltage | | 120 VAC, 50/60 Hz | 24 VAC, 50/60 Hz |
| Power Requirements | (Running) | Pan | 0.18A (21.6 VA) |
| | | Tilt | 0.18A (21.6 VA) |
| | (Starting) | Pan | 0.27A (32.4 VA) |
| | | Tilt | 0.27A (32.4 VA) |
| Connectors | AMP CPC type (mate supplied) | | |
| Motors | Two-phase induction type, instantaneous reversing | | |
| Limit Switches | 5A each (pan and tilt); external adjustment | | |
| Conductor Requirements | 6 or 7, unshielded (functions: left, right, up, down, motor common, safety ground). (No additional conductors for auto scan when used with solid-state control. PP option requires 4 additional conductors.) | | |

Maximum Operating Distances



| | Cable Size | Maximum Distance | |
|----------------------------------|-------------------------------|--------------------|---------------------|
| | | A | B |
| PT570P 6 Conductors | 20 AWG (0.5 mm ²) | 1,045 ft (319 m) | 5,800 ft (1,767 m) |
| | 18 AWG (1.0 mm ²) | 1,665 ft (507 m) | 8,250 ft (2,515 m) |
| | 16 AWG (1.5 mm ²) | 2,640 ft (805 m) | 13,000 ft (3,962 m) |
| 7* Conductors | 20 AWG (0.5 mm ²) | 2,080 ft (634 m) | |
| | 18 AWG (1.0 mm ²) | 3,330 ft (1,015 m) | |
| | 16 AWG (1.5 mm ²) | 5,285 ft (1,611 m) | |
| PT570-24P 6 Conductors | 20 AWG (0.5 mm ²) | 40 ft (12 m) | |
| | 18 AWG (1.0 mm ²) | 65 ft (20 m) | |
| | 16 AWG (1.5 mm ²) | 110 ft (34 m) | |
| 7* Conductors | 20 AWG (0.5 mm ²) | 85 ft (26 m) | |
| | 18 AWG (1.0 mm ²) | 135 ft (41 m) | |
| | 16 AWG (1.5 mm ²) | 220 ft (67 m) | |

*Using 2 wire motor common

- Notes:**
- Distance (A) from control to pan/tilt is the same as distance from relay box to pan/tilt.
 - Maximum operating distance can be extended by using a low voltage control (24 VAC) and a relay box. Distance (B) from control to relay box is the same for all applications.
 - Distances are calculated with both motors (pan and tilt) running and assuming a 10% voltage drop in the cable.

MECHANICAL

| | |
|--------------|------------------------------------------------------------------------------------|
| Pan | 0-355° movement in horizontal plane |
| Speed | 6°/sec ±1° |
| Torque | 10 ft-lb with specified voltage |
| Tilt | ±90° movement in vertical plane |
| Speed | 3°/sec ±0.5° |
| Torque | 20 ft-lb with specified voltage |
| Maximum Load | 40 lb (18.1418.14 kg) at 5" (12.7 cm) from tilt table surface to center of gravity |
| Gearing | Adjustable worm-gear final drive to prevent drift and minimize backlash |
| Bearings | |
| Pan | Heavy-duty ball bearings |
| Tilt | Oilite bronze bushing |
| Braking | Mechanical friction-type |
| Duty Cycle | 50% duty cycle; 30 minute rating |

GENERAL

| | |
|-----------------|--------------------------------------------------------|
| Construction | Aluminum plate; all internal parts corrosion protected |
| Finish | Gray polyester powder coat |
| Environment | Outdoor; -10° to 120°F (-23° to 49°C) |
| Unit Weight | 22 lb (9.9 kg) |
| Shipping Weight | 25 lb (11.5 kg) |

CERTIFICATIONS/RATINGS

- CE, Class B (PT570-24P, PT570-24P/PP)
- UL Listed
- Meets NEMA Type 3R standards

OPTIONS

| | |
|--------|-------------------------------------------------------------------------------------------|
| HB/570 | Blanket heater in cover, 75W. Allows operation to -50°F (-45°C). 120 VAC, 50/60 Hz. |
|--------|-------------------------------------------------------------------------------------------|

RECOMMENDED CONTROLS

| | |
|---------------------|--------------------------------------------------------------------------------------------------|
| Coaxitron or Matrix | See individual specification sheets for information. |
| MPT24DT | Desktop control for 24 VAC pan/tilt. |
| MPTAZ Series | Desktop pan/tilt and zoom lens control with auto/random scan. |
| RB115, RB24 | Relay box for extended low voltage operation. Extends operating distance (control to relay box). |

RECOMMENDED ENCLOSURE

| | |
|---------------|-------------------------|
| EH4700 Series | Environmental enclosure |
|---------------|-------------------------|

RECOMMENDED MOUNTS

| | |
|----------------|-------------------------------------------------------|
| PA2000 | Adapter plate; required when using WM2000 |
| PM2000, PM2010 | Ceiling/pedestal mount; maximum load 125 lb (56.7 kg) |
| ST1 | Support strut; use with WM2000/PM2000/PM2010 |
| WM2000 | Wall mount; maximum load 75 lb (34 kg) |



Pelco, Inc. Worldwide Headquarters:
3500 Pelco Way, Clovis, California 93612-5699 USA
USA & Canada Tel: (800) 289-9100 • FAX: (800) 289-9150
International Tel: +1 (559) 292-1981 • FAX: +1 (559) 348-1120
www.pelco.com

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