Medium Duty Weatherproof Pan/Tilts

The PT9418 and PT9420 Series weatherproof pan/tilts are solid, robust units constructed with corrosion resistant hardware. These devices are built to carry a load of 22 lbs (10 kg) and accurately position camera/housing packages to achieve a desired field of view. The PT9420 Series models feature feed-through wiring for lens and camera power, video and external sync connections.

The 100% duty cycle motors permit continuous operation on all models. Low speed worm drives and flexible motor mounts offer quiet, smooth motion. The use of impedance and overload protected motors, long life limit switches, and permanently lubricated bearings reduce maintenance and provide reliable operation.

PT9418, PT9420 Series
Connectors:

**PT9418 Series**
- Power: Via 24-pin connector on base.
- Ground: Screw connection for grounding on base.

**PT9420 Series**
- Power: Via 24-pin connector on base through to 3-conductor cable on pan head.
- Lens and Accessories: Via 24-pin connector on base through to 10-conductor cable on pan head.
- Video: Via BNC connector on base through to flying lead coax on pan head.
- Ground: Screw connection for grounding on base.

**Recommended Maximum Cable Lengths:**

<table>
<thead>
<tr>
<th>Model Voltage</th>
<th>Wire Size</th>
<th>AWG</th>
<th>Feet</th>
<th>Meters</th>
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<td>43</td>
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<td>18</td>
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<td>16</td>
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<td>590</td>
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<tr>
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<td>12</td>
<td>940</td>
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<tr>
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<td>2200</td>
<td>671</td>
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<td>16</td>
<td>5500</td>
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<td>14</td>
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</table>

1. Values calculated at 20 °C (68 °F) using stranded tinned copper wire common ground (neutral), and with both PAN and TILT motors operating simultaneously.

**Electromagnetic Compatibility**

**EMC Requirements:**
- 50 Hz Models: 89/336/EEC.
- Immunity: EN50082-1.
- Emission: EN50081-1 Class B.

**Safety:**
- 50 Hz Models: CE.
- 60 Hz Models: UL & cUL.
- UL: UL 2044.

**Mechanical**

**Mounting:** These units are designed for either upright or inverted installations. *When mounting in an inverted position outdoors, unit must be enclosed in a weatherproof enclosure.* They can only be mounted upright or inverted; never horizontally.

**Pan Range (Movement in horizontal plane):**
- Standard Models: 0° to 345° maximum.
- Continuous Pan Models: 360° continuous rotation.

**Pan Speed:** 7°/sec.

**Tilt (Movement in vertical plane):** +30° to -90° from horizontal.

**Tilt Speed:** 3.5°/sec.

**Maximum Load:** 22lb (10kg) or 129 lb-in (149 kg-cm) torque with center of mass located 2.5 in (63.5mm) from the center of the tilt table.

**Construction:** Cast aluminum base and yoke, corrosion resistant plastic cover.

**Finish:** Light gray.

**Dimensions:** See Dimensional Outline.

**Weight:** 13.7 lbs (6.21 kg).

**Environmental**

**Temperature:**
- Operating: -22° F to +140° F (-30° C to +60° C).
- Storage: -40° F to +140° F (-40° C to +60° C).

**Vibration:** 3 g swept sine wave, 15 Hz to 2000 Hz.

**Shock:** 50 g, 11 ms, 1/2 sine.

**Enclosure:** Tested to NEMA-3 requirements (upright mounting). IP54 Design.