Outdoor Mobile Antennas
for PCTEL Scanning Receivers

Precision Antennas. High Performance.
Precision Antennas for flex Scanners Yield Maximum Performance

Reliable and accurate wireless measurements require robust and precise antennas. PCTEL’s magnetic mount outdoor antennas, OP451, OP697, OP278H and OP379H, are carefully designed to provide such wide band coverage across multiple frequency bands with no tuning required.

PCTEL’s high-performance Magnetic Mount RF Antennas can be conveniently installed on any metal surface, a surface with a grounding plate or an optional permanent mount adapter.

Features

- **Versatile**
  No tune, multi-band coverage of full spectrum VHF, TETRA/UHF and 450 to 6000 MHz frequencies in a ready-to-install design

- **Reliable**
  Rugged construction for long lasting, reliable emergency response support

- **Convenient**
  NMO compatible interface for easy installation or upgrade

- **Performance**
  Excellent VSWR performance across frequencies
Multi-Band Magnetic Mount
RF Antennas

**OP451**
450 MHz – 6 GHz Multi Band Mag Mount, High Performance, 12-foot cable (3.7m)

**OP278H**
698 – 3800 MHz, Multi-Band Mag Mount, High Performance, 12-foot cable (3.7m)

**OP379H**
698 – 3800 MHz, Multi-Band Mag Mount, High Performance with GPS, 12-foot cable (3.7m)

**OP697**
136 – 174 MHz, 380 – 960 MHz Multi-Band Mag Mount, High Performance, 12-foot cable (3.7m)

Mates with 1-1/8” – 18 threaded mounts, including NMO 3/4” hole mounts. The extra strength magnetic mount is required that is sold with the antenna.

Mounting Accessories

- **OP087**
  Permanent Mount for Low Profile Vertical Antennas

- **OP179H**
  Replacement Magnetic Mount Base, High Performance with GPS

- **OP212H**
  Replacement Magnetic Mount Base, High Performance
**Antenna Gain**

![Graph showing Antenna Gain for different models](image)

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**Mobile Antenna Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range</th>
<th>Gain</th>
<th>VSWR</th>
<th>Nominal Impedance</th>
<th>Physical Antenna</th>
<th>Cabling Length</th>
<th>Physical Mount</th>
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<tbody>
<tr>
<td>OP697</td>
<td>136-174 MHz / 380-960 MHz</td>
<td>Refer to Antenna Gain graph above</td>
<td>&lt; 2.0:1 typical**</td>
<td>50 Ω</td>
<td>22&quot; H x 2&quot; OD 5.08 x 558.8 mm H x 50.8 mm OD</td>
<td>12 feet</td>
<td>3.31&quot; OD 84 mm OD</td>
</tr>
<tr>
<td>OP451</td>
<td>450 MHz – 6 GHz</td>
<td>Refer to Antenna Gain graph above</td>
<td>&lt; 2.0:1</td>
<td>50 Ω</td>
<td>4.2&quot; H x 5.1&quot; OD 107 mm H x 130 mm OD (Magnetic mount is integrated into the antenna)</td>
<td>12 feet</td>
<td>3.31&quot; OD 84 mm OD</td>
</tr>
<tr>
<td>OP278H</td>
<td>698 MHz – 3800 MHz</td>
<td>Refer to Antenna Gain graph above</td>
<td>&lt; 2.0:1</td>
<td>50 Ω</td>
<td>2.4&quot; H x 1.5&quot; OD 61 mm H x 38 mm OD</td>
<td>12 feet</td>
<td>3.31&quot; OD 84 mm OD</td>
</tr>
<tr>
<td>OP379H</td>
<td>698 MHz – 3800 MHz</td>
<td>Refer to Antenna Gain graph above</td>
<td>&lt; 2.0:1</td>
<td>50 Ω</td>
<td>2.4&quot; H x 1.5&quot; OD 61 mm H x 38 mm OD</td>
<td>12 feet</td>
<td>3.31&quot; OD 84 mm OD</td>
</tr>
</tbody>
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* Measured on a 4-foot diameter ground plane. Gain value is measured at the base of the antenna (no cable/connector loss included).

** Measured on a standard NMO mount with 17 feet of RG-58A/U cable. Maximum VSWR 2.5:1.

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Please contact your sales representative or visit pctel.com/scanning-receivers for more details.