## Technical Specifications

### Genesis II Select™
Police Traffic Radar
Revision Date 3-29-12

### General Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Dash-mounted, single or dual antenna, moving/stationary Doppler radar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>100% accurate with a display resolution of ± 1 unit of measure (± 1 mph, ± 1 km/h)</td>
</tr>
<tr>
<td>Ambient Operating Temperature</td>
<td>-22° F to +158° F (-30° C to +70° C)</td>
</tr>
<tr>
<td>Available Frequencies</td>
<td>K-Band, Ka-Band</td>
</tr>
<tr>
<td>Communications</td>
<td>RS232, DB-9 serial connector</td>
</tr>
<tr>
<td>Controls</td>
<td>All functions controlled through the hand remote</td>
</tr>
<tr>
<td>Display</td>
<td>Hi Intensity LEDs with 4 windows for displaying target speeds, modes, locked speeds, and patrol speeds</td>
</tr>
<tr>
<td>Features</td>
<td>DSP, 32 bit processing with true Doppler audio. Internal and user initiated self-tests.</td>
</tr>
<tr>
<td>Finish</td>
<td>Black, scratch resistant powder coat paint</td>
</tr>
<tr>
<td>Frame</td>
<td>Durable extruded aluminum frame</td>
</tr>
<tr>
<td>Maximum Humidity</td>
<td>90% relative humidity @ +98.6° F (+37° C)</td>
</tr>
<tr>
<td>Power</td>
<td>12 VDC nominal</td>
</tr>
<tr>
<td>Speed Range - Stationary</td>
<td>12 mph - 210 mph (19 km/h - 337 km/h)</td>
</tr>
<tr>
<td>Speed Range - Moving</td>
<td>10 mph - 210 mph (16 km/h - 337 km/h) Depending upon mode. Refer to Speed Range details</td>
</tr>
<tr>
<td>Standard Warranty</td>
<td>Two-year parts &amp; labor</td>
</tr>
<tr>
<td>Weight</td>
<td>1.3 lbs (0.590 kg) Display &amp; Computer</td>
</tr>
</tbody>
</table>

### Display - Mechanical

| Display          | Detachable display with optional cable and bracket |
| Dimenisons       | 1.45” (H) x 5.25” (W) x 1.1” (D) (3.68 cm x 13.33 cm x 2.79 cm) |
| Weight           | 5.90 oz (0.41 kg) |

### Computer - Mechanical

| Dimensions       | 1.45” (H) x 5.25” (W) x 3” (D) (3.68 cm x 13.33 cm x 7.63 cm) |
| Weight           | 14.5 oz (0.41 kg) |

### Computer - Electrical

| Power Requirements | +10.8 VDC to +16.5 VDC (+13.6 nominal) |
| Low Voltage Shutdown | +10.8 VDC with visual indicator |
| Minimum Current Draw | 0.60 Amperes (Antenna off) |
| Maximum Current Draw | 1.3 Amperes (All segments lit) |
| Fusing            | Internal, resetable and external 2A (in lighter plug) |

### Computer - Speed Ranges

| Stationary Mode  | 12 mph - 210 mph (19 km/h - 337 km/h) |
| Low Speed Option | Stationary Mode |
| Moving Mode Opposite Direction - Patrol | 5 - 100 mph (with no targets) (8 km/h - 161 km/h) |
| Moving Mode Opposite Direction - Target | 10 mph - closure 210 mph (16 km/h - closure 337 km/h) |
| Moving Mode Same Direction - Patrol | 20 mph - 100 mph (32 km/h - 160 km/h) |
| Moving Mode Same Direction - Target (Slower or Faster) | From the user’s selected minimum speed separation up to 75% of the patrol speed |
# Technical Specifications

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**Police Traffic Radar**  
**Revision Date 3-29-12**

### Hand Remote - Mechanical

<table>
<thead>
<tr>
<th>Features</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker, 11 button keypad, extruded aluminum housing.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5” (H) x 2.10” (W) x 1.2” (D) 12.70 cm x 5.33 cm x 3.04 cm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>9.10 oz (0.26 kg)</td>
<td></td>
</tr>
</tbody>
</table>

### K-Band Antenna

<table>
<thead>
<tr>
<th>IACP Type</th>
<th>IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCC Identifier</td>
<td>724</td>
</tr>
<tr>
<td>Frequency</td>
<td>24.150 GHz nominal</td>
</tr>
<tr>
<td>Beam Width</td>
<td>12° nominal</td>
</tr>
<tr>
<td>Polarization</td>
<td>Circular</td>
</tr>
<tr>
<td>Power Density</td>
<td>(&lt;= 1 \text{ mW/cm}^2)</td>
</tr>
<tr>
<td>Power Output</td>
<td>7 mW nominal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4.15” (L) x 3” (W) 10.54 cm x 7.62 cm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>13.25 oz (0.37 kg)</td>
<td></td>
</tr>
</tbody>
</table>

### K-Band Directional Antenna

<table>
<thead>
<tr>
<th>IACP Type</th>
<th>IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCC Identifier</td>
<td>HTRCR-1KD</td>
</tr>
<tr>
<td>Frequency</td>
<td>24.150 GHz nominal</td>
</tr>
<tr>
<td>Beam Width</td>
<td>12° nominal</td>
</tr>
<tr>
<td>Polarization</td>
<td>Linear</td>
</tr>
<tr>
<td>Power Density</td>
<td>(&lt;= 1 \text{ mW/cm}^2)</td>
</tr>
<tr>
<td>Power Output</td>
<td>7 mW nominal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4.15” (L) x 3” (W) 10.54 cm x 7.62 cm</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>13.25 oz (0.37 kg)</td>
<td></td>
</tr>
</tbody>
</table>

### Ka-Band Antenna

<table>
<thead>
<tr>
<th>IACP Type</th>
<th>VI</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCC Identifier</td>
<td>HTRKA2</td>
</tr>
<tr>
<td>Frequency</td>
<td>35.500 GHz nominal</td>
</tr>
<tr>
<td>Beam Width</td>
<td>12° nominal</td>
</tr>
<tr>
<td>Polarization</td>
<td>Circular</td>
</tr>
<tr>
<td>Power Density</td>
<td>(&lt;= 2 \text{ mW/cm}^2)</td>
</tr>
<tr>
<td>Power Output</td>
<td>10 mW nominal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3.85” (L) x 2.10” (W) 9.77 cm x 5.33 cm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7.25 oz (0.20 kg)</td>
<td></td>
</tr>
</tbody>
</table>

### Tuning Forks

<table>
<thead>
<tr>
<th>Tuning Forks</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH K-band</td>
<td>35.2 &amp; 65.6 mph K-band tuning fork with case (S900-25)</td>
</tr>
<tr>
<td>MPH Ka-band</td>
<td>35.2 &amp; 50.6 mph K-band tuning forks with case (S900-22)</td>
</tr>
<tr>
<td>KM/H K-band</td>
<td>55.2 &amp; 105.6 km/h tuning forks with case (S900-26)</td>
</tr>
<tr>
<td>KM/H Ka-band</td>
<td>60.2 &amp; 90.6 km/h tuning forks with case (S900-27)</td>
</tr>
</tbody>
</table>