

Smallest two-piece mounted Doppler radar on the market.

Outstanding Performance

- High performance K and Ka antennas
- Displays fastest target quicker than leading competitor
- Automatic or manual backlight adjustment
- LCD Graphical Display with full text messages
- Day/Night display offers superior visibility, especially in direct sunlight
- Complete radar control from display without remote
- Digital Signal Processing (DSP) for tracking multiple targets, greater accuracy and range sensitivity
- First radar to support IACP approved COP (Common Output Protocol) to interface with in-car video
- Verified patrol speed with VSS sync
- Water and dustproof for motorcycle configurations



Moving same lane operation



Ka-Band antenna



K-Band antenna

Patented Innovations

- DuraTrak® Target Tracking provides superior tracking history and confident target identification
- TruTrak®'s VSS interface allows automatic mode switching between moving and stationary modes eliminating patrol shadowing and combining errors
- Smart Patrol Search rejects inaccurate patrol speeds



Night Display



In Direct Sunlight

Flexible Configuration

- Directional moving & stationary Doppler radar
- Single or dual, K or Ka band waterproof antennas
- In-car or motorcycle video integration
- Flexible mounting solutions for in-car and motorcycle
- IACP conforming product list

High performance K and Ka

DuraTrak® target tracking

Confident tracking history

Raptor RP-1™

Traffic Safety RADAR



Options

- Single or dual K or Ka antennas
- Same direction moving mode with auto Fastest
- Separable display
- Wireless IR remote
- GPS suction or permanent mounts
- Motorcycle mounting kits available
- Motorcycle speaker amplification kit
- In-car and motorcycle video interface cables

Flexible Mounting Options



Motorcycle Mount



Display Suction Mount



Antenna (K & Ka) Suction Mount

Small Profile

- | | | |
|----------------------|--|--------------------|
| • Two-piece display: | 2.6" x 4.1" x 1.5"
(6.6cm x 10.4cm x 3.8cm) | .30 lbs
(136 g) |
| • Processing unit: | 1.2" x 3.9" x 2.35"
(3cm x 9.9cm x 5.9cm) | .35 lbs
(159 g) |
| • K band antenna: | 3.1" x 3.1" x 1.5"
(7.9cm x 7.9cm x 3.8cm) | .45 lbs
(204 g) |
| • Ka band antenna: | 2.7" x 2.7" x 3.8"
(6.9cm x 6.9cm x 9.7cm) | .66 lbs
(299 g) |

Raptor Display



Specifications

- | | |
|------------------------|--|
| Type: | Two-piece, Directional Moving/ Stationary Doppler Traffic Radar |
| Frequency: | K-Band 24.125 GHz +/- 100 MHz |
| Beam Width: | 12° +/- 1° (Horizontal) |
| Polarization: | Linear |
| Power Density: | Less than 1 mW/cm ² at aperture |
| FCC Type: | 15 |
| Frequency: | Ka-Band 35.5 GHz +/- 100 MHz |
| Beam Width: | 12° |
| Polarization: | Circular |
| Power Density: | Less than 5 mW/cm ² at aperture |
| FCC Type: | 90 |
| System Accuracy: | Stationary +/- 1 mph (+/- 1 km/h)
Moving +1/-2 mph (+1/-2 km/h) |
| Operating Voltage: | K-Band: 9.0 to 16.5 VDC
Ka-Band: 10.8 to 16.5 VDC |
| Operating Temperature: | -22°F to +140°F (-30°C to +60°C)
90% relative humidity at 37°C,
non-condensing |



Raptor RP-1 - Data Sheet - USA Eng - Print - 07/2013