



RANGER[®] EZ

Ranging Directional Traffic Radar
Featuring *Officer Safety Alert*



Advanced Target Identification™
Speed Measurement Technology

RANGER[®] EZ

Ranging Directional Traffic Radar

Confirms your visual traffic observations through MPH's unique Advanced Target Identification™ Technology.

RANGER[®] EZ accurately identifies:

1. The Strongest Target
2. The Fastest Target
3. The Direction the Targets are Moving
4. The Distance of both vehicles relative to each other and the enforcement vehicle
5. Targets in Opposite and Same-Direction traffic



RANGER[®] EZ Confirms Strongest Target:

Beige car, 60 mph, approximately 500 yards in front of the patrol car and 300 yards in behind the Fastest Target (Red car)

RANGER[®] EZ Confirms Fastest Target:

Red car, 75 mph, approximately 800 yards in front of the patrol car and 300 yards in front of the Strongest Target (Beige car)

Easy-Track™ Range Bar

Red Bar matches with the Target/Strongest Signal Window
 Yellow Bar matches with the Lock/Fastest Signal Window
 Target Window and Lock Window Alternate Speed and Distance Readings

Separable RANGER[®] EZ Display



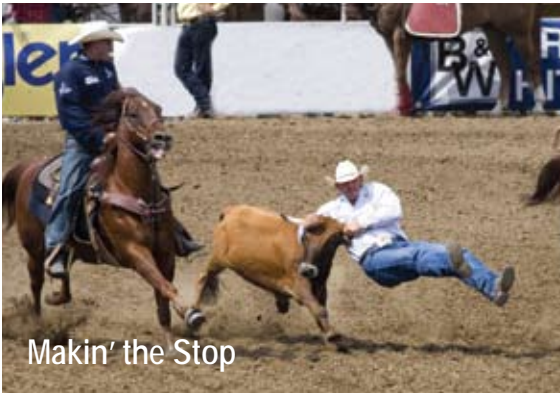
CPU

Display



Cut'em Out of the Herd

RANGER[®] EZ Ranging Directional Traffic Radar



RANGER[®] EZ Antenna



Officer Safety Alert

Officer Safety Alert activates an Audible Warning to officers alerting them to potentially life-threatening, high speed vehicles approaching from behind their patrol car while the officer is standing on or near the roadway.

To activate Officer Safety Alert, an officer presets Approaching Speed and Distance parameters into the RANGER[®] EZ operating menu prior to exiting the patrol car. Officer Safety Alert is triggered when an approaching vehicle exceeds the preset speed and distance thresholds. An officer standing outside the patrol car would hear a loud, distinctive audible alert signal.



Additional Outstanding RANGER[®] EZ Features

- Dual Audio Tones: Identify and Track both Fastest and Strongest Targets Simultaneously
- Switch Automatically between Moving and Stationary Modes
- Weatherproof All Black Antennas
- Integrated Speedometer Interface
- Integrated Video Interface for MPH (and most competitor) In-Car Video Systems
- Patrol Speed Harmonic Indicator
- Continual Internal Diagnostic Self-Test
- Fastest Mode
- Directionality
 - Automatic Same-Direction (ASD[™]) Mode
 - Direction Sensing
 - Direction Selection
- Choice of Wired or Wireless Ergonomically-Designed Remote Control
- Optional Motorcycle Upgrade

RANGER[®] EZ Ranging Directional Traffic Radar

General Specifications

- **Power:** 10.8 to 16.5 Volts DC, 0.8 Amps @ 13.6 Volts Nominal. Fused Power Cable. Reverse Polarity Protection.
- **Speed Range:**
 - Stationary
Target: 10 to 200 mph
 - Moving
Patrol with Speedometer Interface): 4 to 120 mph
Patrol without Speedometer Interface: 10 to 80 mph in City Mode
20 to 100 mph in Highway Mode
 - Target
 - Opposite Direction: 10 to 200 mph Closing Speed
 - Same-Direction: +/- 70% of Patrol Speed (will not measure speeds within 3 mph of Patrol Speed)
- **Target Distance:** One (1) mile Range (typical) for an average size vehicle. Range varies with vehicle size, terrain, weather and traffic conditions. Note: Range is lower in Same-Direction Mode.
- **Display:**
 - Speed Display: Three (3) LED windows simultaneously display
 - Left Window: Target Speed/Strongest Signal
 - Middle Window: Fastest Speed/Choice of Locked Fastest or Locked Strongest Target
 - Right Window: Patrol Speed
 - Mode Window: A Fourth Window (between the Middle and Right Speed Display Windows) simulates the antenna signal direction in relation to the patrol car:
 - Front Antenna: Approaching Opposite Direction or Moving in the Same Direction
 - Rear Antenna: Receding Opposite Direction or Approaching in the Same Direction
 - Easy-Track™ Range/Distance Bars Distances (in 100 yard increments) are continuously shown on a graphical display.
 - Red Bar matches with the Target/Strongest Signal Window (Left Window)
 - Yellow Bar matches with the Lock/Fastest Signal Window (Middle Window)
 - Numerical Range/Distance Windows:
 - Target Window (Left Window) and Lock/Fastest Window (Middle Window) alternate between Speed and Distance Readings when speeds are Locked. Distance Readings are in Yards.
- **Physical Size– Display and Readout**
 - Combined Display and CPU: 1.7" High x 6.5" Wide X 5.25" Deep
 - Separate Display Only: 1.7" High x 6.5" Wide x 1.5" Deep
 - Separate CPU Only: 1.7" High x 6.5" Wide x 3.75" Deep
- **Antenna**
 - Physical Size: 2.75" Dia. (3.5" Dia. at the waterproof seal) x 4.625" Long Weight: 12 oz.
 - Housing: All aluminum housing with waterproof polycarbonate radome cover incorporating O-ring seals
 - Frequency: K-band 24.125 GHz +/- 50 MHz
 - Type: Circularly polarized with seamless conical horn and Rexolite microwave lens
 - Source: Solid-state Gunn-effect diode transmitter with a nominal output power level of 2 to 30 mW
 - Power Density: Radiated power is less than 2 mW/cm² at 5 cm distance from the antenna
 - Mixer Diode: Schottky barrier type rated for 100 mW burnout



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