



# Z-35™ Battery-Powered Stationary Traffic Radar

The new Z-35 handheld is the most advanced stationary radar. The Z-35's POP™ feature allows the officer to monitor traffic speeds all day without setting off a single radar detector. There are two speed displays, allowing both "track-through-lock" and "fastest vehicle" readings. This second display also confirms the radar's status any time that the operating mode is changed. Activation of a mode key is confirmed by synthesized voice. Two Ni-Cad battery handles and a "smart" battery charger are included; each handle gives 8 hours service. The standard Z-35 package also includes the radar tuning fork, carrying case and operator's manual.



## Features

## Benefits

- Patented POP™ feature** ..... *Makes radar detectors obsolete, won't set them off, even from a foot away.*
- Two Ni-Cad battery powered handles and "smart" charger** ..... *Continuous operation by exchanging handles, battery life maximized by special charging circuit.*
- "Fastest vehicle" mode, one-mile range** ..... *Picks up violators before they see the patrol vehicle.*
- Two-window speed display** ..... *Continue to track speeds after locking them or simultaneously track the "strongest" and "fastest" targets.*
- Icon-based, voice-confirmed mode change** ..... *Simple and quick to use, day or night.*
- Meets all NHTSA/IACP specifications** ..... *Have confidence in every speed measured.*
- Polycarbonate case** ..... *Tough, very durable, use under all conditions.*

**The Company:** MPH Industries, Inc. specializes in velocity measurement. Formed in 1975, MPH is one of the largest suppliers of Doppler radars to Law Enforcement worldwide. MPH also serves the highway and rail transportation industries, education and sports. MPH Industries is a subsidiary of MPD, Inc., a manufacturer of aerospace components and subsystems, electronic components and breath alcohol analyzers.

# Z-35™ Battery-Powered Stationary Traffic Radar

**Description:** The Z-35 is a battery-powered, handheld Doppler radar intended for speed measurement purposes. It has a polycarbonate case giving long life, durability and light weight. Two speed displays allow "track-through-lock" or simultaneous "strongest" and "fastest" target tracking. The exclusive POP™ feature permits target speed detection without alerting drivers

who use radar detectors. Mode changes are selected via international icon symbology and are confirmed by voice. Special, super-efficient circuits keep power consumption to a minimum resulting in minimal drain on battery power; each Ni-Cad battery handle is suitable for eight hours use. Battery life is maximized by "smart" battery charger.

## Specifications:

- ❖ Operating frequency: K - band: 24.150 ± 0.100 Gigahertz
- ❖ Target speed range: 10 - 160 mph (optional 16-270 kph)
- ❖ Target speed displays: two three-digit displays for "track through lock," or "strongest" plus "fastest" vehicles
- ❖ Speed accuracy: ±1 mph (±1 kph)
- ❖ Range: 1 mile (1.6 km) typical for average size vehicle
- ❖ Charger input voltage: 120 Volts AC (240 VAC optional)
- ❖ Rechargeable handle: two handles provided, each provides 8 hours use, "smart" charger for desktop use
- ❖ Microwave source: Gunn-effect diode
- ❖ Transmitted power/density: 25 milliwatts nominal/less than 2 milliwatts per cm<sup>2</sup> at 5 cm
- ❖ Antenna beam width: 12° nominal
- ❖ Antenna side lobes: minimum 24dB below main beam power level
- ❖ FCC Type Acceptance: Complies with FCC Part 90
- ❖ Mixer diode: low-noise Schottky barrier type, rated for 100 mW
- ❖ Operating temperature: -22° to +140°F (-30° to +60°C)
- ❖ Options: RS-232 computer data port for connecting to a video system, computer, or Speed Monitor™; speeds in kilometers per hour available
  
- ❖ Dimensions: Height: 8 inches (20 cm); 4 in. (10 cm) excluding handle  
Width: 4 inches (10 cm)  
Length: 8 inches (20 cm)
  
- ❖ Weight: 2.1 pounds (1 kg)
- ❖ Controls and Features: POP™ Mode, Fastest Vehicle Mode, Range Control, RFI and Low Voltage Alerts, Audio Volume and Squelch Control, Dual-Crystal Internal Test and Segment Check

# MPH

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