

# MPH Radar

## Enforcer™ Moving Radar System with Manual Same Direction & Fastest Modes

Along with the BEE III, the Enforcer is the most compact radar available. It has the smallest detachable display, while retaining larger multicolored speed windows. Enforcer also has the smallest available antennas, and it is waterproof. Both pieces can be mounted anywhere in the patrol vehicle.

Enforcer is equipped with manual same direction mode, allowing economical access to same direction measurements. The radar also has fastest vehicle mode for detecting speeders in the presence of larger vehicles. Its wired remote control has specially-contoured buttons to make it easy to run radar while driving. The design of the Enforcer sets it apart from competing radars.



### Features

### Benefits

- Manual same direction mode** . . . . . *Control speeding in all traffic lanes and patrol roadways where turning around isn't practical.*
- Fastest target mode** . . . . . *No more hiding in a semi's shadow.*
- POP™ technology** . . . . . *Patent-pending technology can measure traffic speeds without setting off radar detectors.*
- Tiny display with easy-to-read LED displays.** . . . . . *Detachable display unit is small enough to mount anywhere in the vehicle, but has speed windows that are easily distinguished by size, location, and color.*
- Ergonomic wired remote control** . . . . . *Each major function has a uniquely-contoured switch, so the radar can be operated without having to look at the remote.*
- Black equipment housings** . . . . . *Radar blends into the vehicle's interior until you're ready to use it. All-black, waterproof antenna housing makes covert operation easy.*
- Digital signal processing** . . . . . *Reliable, jammer-proof, and maintenance free.*

**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.

# Enforcer™ Moving Traffic Radar

**Description:** A multi-piece radar with detachable display unit and wired remote control. The ergonomic design of the remote control ensures comfort, even after hours of use. Each major control function has its own uniquely-contoured switch, so the operator never needs to take his eyes off the road to look at the controls. All minor functions are controlled using unobtrusive, secondary switches on the remote. Unique features include the multi-color display, green for patrol, red for target, and yellow for the lock/fastest window. Same and opposite direction speed-sensing, moving and stationary modes, fastest and strongest target are all included. POP feature permits speed measurements without alerting radar detectors.

## Special Features

- Enforcer is the most compact radar available. It has the smallest detachable display, while retaining large multi-colored speed windows. Enforcer has the smallest conical Ka-band antenna available, which is also weatherproof. The display and antenna can mount anywhere in any patrol vehicle.
- POP™ mode (patent pending) allows the operator to measure the speed of potential violators in stationary mode without setting off a single radar detector.
- Same direction and fastest vehicle modes allow the officer to measure the speed of any vehicle while patrolling, regardless of its direction.
- Selectable City and Highway modes help minimize shadowing and combining.
- The wired remote control ensures that the operator doesn't have to point the remote control at the radar. Wireless remote optional.
- The reliability and accuracy of the Enforcer are guaranteed by MPH Industries, serving law enforcement with products like the Python and K-55 for over twenty-five years.
- Enforcer contains the following functions and controls:

Power	Range Control	Antenna Select
Test	Stationary Mode	Volume Control
Squelch	Patrol Blanking	Antenna Standby
Error Detect	Same/Opposite Direction	Lock/Release
RS-232 Communication Port		Fastest/Slower

## General Specifications

- Power:** 10.8 to 16.5 Volts DC, 0.9 Amps @ 13.6 V nominal.  
Fused power cable. Reverse polarity protection.
- Speed Range:**  
**Stationary:**  
Target: 15 to 200 mph  
**Opposite direction moving:**  
Patrol: 12 to 90 mph (up to 80 mph in City mode)  
Target: 15 mph to 200 mph closing speed  
**Same direction moving:**  
Patrol: 20 to 90 mph (up to 80 mph in City mode)  
Target: ± 70% of patrol speed (will not measure speeds within 3 mph of patrol speed)
- Target Distance:** One mile range typical for an average size vehicle. Range varies with vehicle size, terrain, weather, and traffic conditions. (Range is lower in same direction mode.)
- Speed Display:** Three LED windows simultaneously display patrol, target, and locked or fastest target speeds. Display brightness automatically adjusts to the ambient light level.
- Display Unit Size:** 1 1/2 in. high, 5 in. wide, 2 3/4 in. deep.
- Antenna:**  
**Frequency:** 33.8GHz ± 100 MHz (Ka-band)  
**Type:** Circularly polarized, with seamless conical horn and Rexolite microwave lens.  
**Enclosure:** All-aluminum housing with a waterproof polycarbonate radome cover incorporating O-ring seals.
- Source:** Solid state Gunn-effect diode transmitter with a nominal output power level of 12 to 30 mW.
- Power Density:** Radiated power is less than 2 mW/cm<sup>2</sup> at 5 cm. distance from the antenna.
- Mixer Diode:** Schottky barrier type related for 100 mW burnout.



**MPH Industries, Inc.**

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