pacific data systems

Solutions. Technology. Simple.

# MPH Radar BEE III™

## Moving Radar System with Automatic Same Direction™ Technology

- Vehicle-mounted radar
- Same direction operation
- Ability to measure single or multiple lanes in stationary mode
- Minimise shadowing and combining
- Remote control

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

BEE III is equipped with patented Automatic Same Direction (ASD™) technology, allowing the versatility of same direction operation without a confusing faster/ slower button. The BEE III calculates the speed automatically. In stationary mode, ASD allows you to select a lane of traffic to measure while completely ignoring the other lane.

***MPH Industries, Inc***

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.

| Features | Benefits |
|---|---|
| Automatic Same Direction (ASD) mode | Patented technology eliminates the faster/slower button, freeing up both hands for driving. Measures same direction traffic with computer controlled accuracy. |
| Directional stationary mode | Catch a speeder moving in a chosen direction even if there's a closer vehicle moving in the opposite direction. |
| 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 wireless 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. |

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A multi-piece radar with detachable display unit and wireless 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. Automatic Same Direction ™(ASD™) makes same direction operation simple and removes potential judgment errors. POP feature permits speed measurements without alerting radar detectors.

## Special Features

- BEE III is the most compact radar available. It has the smallest detachable display, while retaining large multi-colored speed windows. BEE III has the smallest conical Kaband antenna available, which is also weatherproof. The display and antenna can mount anywhere in any patrol vehicle.
- Patented Automatic Same Direction technology gives you the versatility of same direction operation without a confusing faster/slower button. The BEE III decides whether the target is approaching or receding with 100% accuracy.
- In stationary mode, ASD allows you to select a lane and only measure the targets traveling in that lane, while completely ignoring the traffic in the other lane. Or let the radar measure both lanes and tell you the direction the target is traveling.
- POP™ mode (patent pending) allows the operator to measure the speed of potential violators in stationary mode without setting off a single radar detector.
- Selectable City and Highway modes help minimise shadowing and combining.
- The high-power wireless remote control eliminates a cable while ensuring that the operator doesn't have to point the remote control at the radar. Wired remote optional.
- The reliability and accuracy of the BEE III are guaranteed by MPH Industries, serving law enforcement with products like the Python and K-55 for over twenty-five years.
- BEE III 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 Mode | |

## 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: 24 to 321 kph

*Opposite direction moving:*

Patrol: 19 to 128 kph in City mode, 32 to 128 kph (will track to 145 kph) in Highway mode

Target: 24 kph to 321 kph closing speed

*Same direction moving:*

Patrol: 19 to 128 kph in City mode, 32 to 128 kph (will track to 145 kph) in Highway mode

Target: + 70% of patrol speed (will not measure speeds within 5 kph 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:** 3.8 cm high, 12.7 cm wide, 6.9 cm 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/cm2 at 5 cm. distance from the antenna.

**Mixer Diode:** Schottky barrier type related for 100 mW burnout.