

# MPH



The *Speedgun* does everything that a radar can be asked to do. On the dash, it's a small, one-piece, moving radar with a wireless remote control. Off the Interstate, cross-street speeders are *no problem*: the wireless remote snaps on instantly to make a hand-held gun with all the latest features. The unique, ergonomic controls mean the operator never has to look to see what switch he is pushing. The large, brightly-lit, multi-color display saves time, no need to search for hard-to-read target data. *Small, lightweight, does everything* - what more could an officer ask?



## Features

## Benefits

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|--|--|
| Wireless remote serves as handle .....                         | <i>Instantly converts from dash to hand-held use, cross-street speeders are history.</i> |
| Each major function has a unique-feeling switch ...            | <i>No need to look to know what you are doing.</i>                                       |
| Full size & color, high brightness, three window display ..... | <i>"Track through lock", no straining to make out the numbers.</i>                       |
| Fastest target mode .....                                      | <i>No more hiding in a semi's shadow.</i>  |
| Same direction mode .....                                      | <i>Check out the other half of traffic.</i>  |
| Small size, air-bag friendly .....                             | <i>This radar never gets in the way.</i>   |
| Super tough Lexan® housing .....                               | <i>Survivable in the toughest environments and weather-resistant.</i>                    |
| K-Band with "moving-type" beam width .....                     | <i>Truly a dual-purpose radar.</i>   |
| Digital signal processing .....                                | <i>Reliable, jammer-proof, maintenance free.</i>   |

**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. sup- edu- elec-

# Speedgun

**Description:** A one-piece radar with wireless remote control which converts to hand-held use. The ergonomic design of the remote control insures comfort, even after hours of use. Each major control function has its own unique-feel switch, the operator never needs to take his eyes off the road to look at the controls. All minor functions are controlled with a wheel switch which the operator pushes to finish his selection. Unique features include the multi-color display: green for patrol speed, red for target and lock, yellow for secondary functions such as patrol blanking and squelch. Lexan® case gives ruggedness and weather resistance. Same and opposite direction speed-sensing,

moving and stationary modes, fastest and strongest targets are all included.

High visibility, full-size LED readout with display icons for all major functions - operator sees and understands data instantaneously. Three windows provide full "track through lock" capability. Digital signal processing reduces maintenance to a minimum yet filters out many more spurious signals, avoiding potential erroneous readings. Minimal audio processing of Doppler return yields frequency and loudness information - true "cosine effect" frequency slide assures positive identification as target goes by. Airbag friendly size. Quick release dash bracket. Aiming sights.

## Standard features:

- ❖ Operating frequency: K - band: 24.150 ± 0.100 Gigahertz
- ❖ Display digits: 0.3 inch (0.76 cm)
- ❖ Radar output power: nominal 25 milliwatts
- ❖ Input voltage: nominal 13.6 Volts direct current (10.7 Vdc - 16.5 Vdc)
- ❖ Input current: nominal 1 amperes (0.8 to 1.6 amps)
- ❖ Patrol speed range:
  - Same direction: 20 to 80 mph
  - Opposite direction: 12 to 80 mph
- ❖ Target speed range:
  - Same direction: patrol speed ± 70%; minimum difference between target and patrol speed is 3 mph
  - Opposite direction: 20 mph to 209 mph closing speed
- ❖ Stationary operation target speed: 15 mph to 209 mph
- ❖ Antenna beam width: nominal 12°
- ❖ Antenna side lobes: minimum 24dB below main beam power level
- ❖ FCC Type Acceptance: Complies with FCC Part 90
- ❖ Operating temperature: -30°C to +60°C
- ❖ Operating humidity: to 90% relative humidity @ 37°C
- ❖ Housing: Impact-resistant weather-resistant Lexan™ with EMI shielding
- ❖ Dimensions:
  - Main body: length: 8 3/4 inches (22 cm)  
width: 4 1/8 inches (10.5 cm)  
height: 3 3/4 inches (9.5 cm)
  - Remote control/handle: length: 5 inches (13 cm)  
width: 3 3/4 inches (9.5 cm)  
thickness: 1 15/16 inches (5 cm)
- ❖ Weight: 2 3/4 pounds (1.3 kg)

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