



MPH Industries, Inc.

Ranger® EZ Ranging Traffic Radar System

*The accuracy of a laser.
The simplicity of a radar.
The best of both worlds.
The only way to describe it:
REVOLUTIONARY.*



Target distance makes speed enforcement more accurate

The problem

Without a ranging radar, determining which vehicle is being measured by the radar, especially in fastest mode, can be challenging. You have to take all of the vehicles in the radar beam into account, and use your visual speed estimates to ensure you identify the correct vehicles.



The solution

Ranger EZ shows you the distance of every vehicle it measures.



Ranger gives positive target identifications, with no questions.

SafetyZone™ traffic alert makes traffic stops safer

The problem

Since 1980, 329 officers have been killed in the line of duty by being struck by a vehicle when they were outside of their patrol car. 118 have died in the last decade alone, making this the #2 cause of accidental officer deaths. There has been no technology to warn officers of dangerous vehicles.



The solution

It can alert you to any inattentive vehicle that fails to slow down in response to your lights.

Ranging technology makes the alert time independent of the size of the vehicle.

You can get alerts outside of your vehicle.

It can give you time to move out of danger; more than ten seconds in most situations.

SafetyZone watches your back and warns you of dangerous vehicles when you are busy at a traffic stop. Nothing else does this.

Our company: MPH Industries, Inc. specializes in speed measurement. Formed in 1975, MPH is one of the largest suppliers of radar and lidar equipment to law enforcement worldwide. Many key developments in radar were invented by our engineering group. MPH Industries is a subsidiary of MPD, Inc., a manufacturer of aerospace components, electronic components, and breath alcohol systems. MPH and MPD are both 100% employee-owned companies.

Ranger EZ Ranging Traffic Radar System

Summary Specifications

Description: A multi-piece, ranging, directional radar with detachable display unit and wireless remote control. Unit includes a multi-color display unit, with green display for patrol, red for target, and yellow for the lock/fastest window. Radar reports distance of both strongest and fastest targets on bargraph display, with numerical range available once targets are locked. Radar also has SafetyZone rear traffic alert, in order to warn the officer of dangerous vehicles, whether he is inside or outside of the vehicle. Radar has same and opposite direction speed-sensing, in moving and stationary modes for both the fastest and strongest targets. Vehicle speed sensing, via VSS or CAN, is built into the radar, and allows automatic moving/same direction setting as well as reduction of patrol speed errors. Motorcycle unit also available.

Special Features Associated with Ranging

- ❖ Distances for each target are displayed, to assist the officer in positively identifying the vehicles that are being measured by the radar, eliminating chances for misidentification.
- ❖ Target distance is used to assist in the elimination of false speeds associated with the patrol vehicle environment.
- ❖ Range settings (minimum and maximum) are based on true distance to targets, and not on sensitivity. At reduced distance settings, small targets are not swamped out by large, distance vehicles.
- ❖ Minimum and/or maximum distance settings allow the specific enforcement of school zones and other reduced speed zones while eliminating speeds from vehicles outside of the zone.

Other Unique Features of the Ranger

- ❖ Every unit is equipped with an interface for both CAN and VSS signals. The radar can be connected to either type of interface in the vehicle. Vehicle speed information is used to minimize patrol speed errors and, when enabled by the user, to automatically select moving and stationary modes based on vehicle speeds. Also, the patrol speed range is extended when the vehicle interface is used.
- ❖ The display unit of the radar uses large displays and multiple colors in order to conveniently convey the speed and distance information to the officer. The display unit is detachable.
- ❖ Doppler audio signals from the strongest and fastest targets are broadcast by two separate speakers, to allow distinction between the two signals.
- ❖ A waterproof version of the display unit and remote control is available for motorcycle use.

SafetyZone Rear Traffic Alert

- ❖ When enabled by the user, SafetyZone alerts the officer to any threatening vehicles that are approaching the patrol vehicle from behind that are traveling faster than a user-determined speed and are close enough to be a threat. The officer only has to make these settings once, and afterwards they are remembered by the radar.
- ❖ SafetyZone works when the patrol vehicle is stationary, to protect him/her at the roadside.
- ❖ When a threatening vehicle is detected, an alert is sounded by the radar. In addition, a relay inside the radar is activated, which can then activate secondary equipment (siren, horn, etc.) to alert the officer outside of the vehicle.
- ❖ Depending on the distance setting and the target's speed, alerts can be given to the officer allowing more than ten seconds to assess the threat and evade it, if necessary. Alerts are sounded until the threatening vehicle slows down or until it passes the patrol vehicle.
- ❖ In order to comply with NHTSA regulations, live targets speeds are not displayed during SafetyZone mode. NHTSA prohibits the use of any speed alarm for enforcement purposes. Locked speeds are preserved in SafetyZone mode.



MPH

MPH Industries, Inc.

www.mphindustries.com
(888) 689-9222