

MPH Radar



The **Python Series II FS** is a great all-around traffic radar, giving greatest value for the law enforcement dollar. The Python contains full Digital Signal Processing (DSP) capability, yet is as simple to use as analog radars. Unlike other radars, no special training is needed to operate the Python. This radar can simultaneously measure the speed of the fastest target approaching the radar and the target closest to the radar, so speeders cannot hide in the shadow of nearby larger vehicles. The Python FS also measures the speed of vehicles moving in the same direction as the patrol vehicle. The radar's three-window speed display allows a tracking history to be maintained after a speed has been locked, and its exclusive unsynthesized Doppler audio guarantees proper target identification. The radar is available in Ka and K bands, with optional waterproof antennas.



Features

Benefits

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| Digital Signal Processing (DSP) | <i>Accurately measures vehicle speeds while rejecting false targets, making the operator's job easier.</i> |
| Fastest target mode | <i>Prevents violators from hiding near larger vehicles and defeats all radar jammers.</i> |
| Same direction target mode | <i>Detect speeders on both sides of the highway, run .</i> |
| Compact readout/control unit | <i>Makes best use of dashboard space, won't interfere with airbag deployment.</i> |
| Ergonomic three-button remote control | <i>Can be operated by feel, lets the operator work radar without taking his eyes off the road.</i> |
| Available in two radar bands | <i>Choose K band for general purpose use, or Ka band for the smallest antenna size.</i> |
| Full NHTSA/IACP approval | <i>Accuracy and performance are certified by independent test laboratories.</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.

Python® Series II Traffic Radar

Description: The Python is for the use of law enforcement agencies to measure the speed of vehicles. It operates from either stationary or moving patrol vehicles and uses the legally-accepted Doppler principle. The Python's DSP circuitry permits measurement of the speed of the fastest vehicle inside the radar beam, and also the speed of vehicles moving in the same direction as the patrol vehicle. The radar is available in K or Ka Band with either non-weatherproof or completely waterproof antennas. The hand controller is limited to three controls which can be operated by feel, even with gloved hands, allowing the officer to keep his eyes on the road while operating the Python.

Special Features

- Same direction and fastest vehicle modes allow the officer to measure the speed of any vehicle while patrolling, regardless of its direction.
- The ergonomic wired remote control ensures that the operator doesn't have to point the remote control at the radar.
- The reliability and accuracy of the Python are guaranteed by MPH Industries, serving law enforcement with products like this and the K-55 for over twenty-five years.
- Python contains the following functions and controls:

Power	Range Control	Antenna Select
Test	Operating Mode	Volume Control
Squelch	Patrol Blanking	Antenna Standby
RFI Detect	Low Voltage Sensing	Lock/Release
RS-232 Communication Port		Fastest/Slow 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: 15 to 209 mph in K Band
15 to 200 mph in Ka Band
Opposite direction moving:
Patrol: 12 to 80 mph
Target: 15 mph to 209 mph closing speed in K Band
15 mph to 200 mph closing speed in Ka Band
Same direction moving:
Patrol: 20 to 80 mph
Target: $\pm 70\%$ 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, 7 in. wide, 5 in. deep
- Antenna:**
Frequency: 24.15 GHz \pm 100 MHz (K-band)
33.8 GHz \pm 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.



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