MPH Radar Python® Moving Traffic Radar

The **Python** sets the standard for a new generation of police radar. The Python design offers the benefits of Digital Signal Processing (DSP) with the operating simplicity of analog radars. All the features necessary for error-free speed enforcement are there, including a three-window speed display, true (unsysnthesized Doppler audio, dual antenna capability, and safeguards against false speed readings. The Python in available in X, K, or Ka band, with optional waterproof antennas.

Features	Benefits
Digital Signal Processing (DSP)	*Accurately measures vehicle speeds while rejecting false targets, making the operator's job easier.*
Compact readout/control unit	*Won't interfere with airbags; detachable and remote displays are unnecessary in most applicatons.*
Ergonomic, two button remote control	*Work radar without taking your eyes off the road.*
Available in all three radar bands	*Choose X band for aoperation in rain; K band for general purpose use; or Ka band for the smallest antenna size.*
Full NHTSA/IACP approval	*Accuracy and performance are certified by independent test laboratories.*
Court-proven, tens of thousands in use	*Reliable speed readings, tickets will stand up in court.*
Balanced performance	*Does everything well, the operator doesn't have to wrestle with the radar to get a valid speed.*

Python® Moving Traffic Radar

The Python Moving Traffic Radar is designed for convenient use by law enforcement agencies in the measurement of the speed of motor vehicles. It operates from either stationary or moving patrol vehicles. Python uses the legally-accepted Doppler principle. The radar has been type accepted by the Federal Communications Commission and is listed on the NHTSA/IACP Consumer Products List. Python is available in X, K, or Ka Band with either non-weatherproof or completely waterproof antennas.

Special Features

- Python utilizes true Digital Signal processing, whereby it automatically monitors all radar returns in the radar beam, picking out the offending vehicle with assurance.
- Python is the easiest traffice radar to use. The remote control contains only the most frequently used unctions and can be operated by feel. The pushbuttons on the readout unit are clearly labeled and can be operated with gloved hands.
- Python contains MPH's exclusive high-quality Doppler audio. This court-proven feature gives more information about the target than the "synthesized" audio of competitors. The volume increases with signal strneght, and potentially interfering targets become apparent immediately. The "cosine effect" in the audio pinpoints targets as they approach.
- The reliability and accuracy of the Python are guaranteed by MPH Industries, serving law enforcement with products like K-55 and S-80 for over twenty-five years. The Python is certified by the IACP, which regularly tests radar for conformance to NHTSA radar specifications.
- Python contains the following functions and controls:

Power On	Range Control	Test
Moving/Stationary	Volume Control	Squelch
Patrol Blanking	Antenna Standby	RFI Detect
Low Voltage Sensing	Lock/Release	
Front/Rear Antenna Select	RS-232 Communication Port	

General Specifications

Power: 10.8 to 16.5 Volts, 0.9 Amps @ Vde nominal.
Fused cord and reverse polarity protection.

Speed Range:
Stationary Mode: 20 to 209 mph X Band
15 to 209 mph K Band
15 to 200 mph Ka Band
Patrol speed: 12 to 80 mph, all bands
Moving mode closing speed:
20 to 209 mph closing, X Band
15 mph to 209 mph closing, K Band
15 mph to 200 mph closing, Ka Band

Target Distance: One mile range typical for a regular-sized vehicle. Range varies with vehicle size, terrain, weather, and traffic conditions.

Speed Display: Three LED windows simultaneously display patrol, target, and locked-target speeds. Display brightness adjusts automatically to the ambient light level.

Readout Size: 1 3/4 in. H, 7 in. W, 5 in. D

Antennas:

All antenna modules consist of a circularly polarized, seamless, conical horn antenna and shatterproof microwave lens, contained in a rugged cylindrical aluminum housing. All weatherproof antennas incorporate O-ring seals. The microwave source is a solid state Gunn-effect diode transmitter with nominal output power level of 12 to 30 milliwatts. The radiated power density is less than $2mW/cm^2$ at 5 cm distance from the antenna. The mixer diode is a Schottky barrier type rated for 100 mW input power.

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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.