

Narrowband Radar Speed Test Technology

SpeediGuard is a smart mobile electronic police-grade radar system, which is a new generation of intelligent transportation vehicle management system.



It adopts narrowband radar speed test technology, HD image processing, and embedded system control technology.

It is comprised of a speed test radar, camera, system control, flash, power supply and other installation accessories.

It can be directly placed on the roadside either mounted on a tripod, or existing pole or mast, providing 24-hour monitoring.

- **Extensive Detection range**
- **200 megapixel camera**
- **High speed image processor**
- **32GB high speed storage**

System Functions

Velocimetry

The system can detect the speed of passing vehicles automatically and pre-set the speed limit value (can be set by police). When a certain vehicle exceeds the limit value, the corresponding vehicle

will be captured automatically as evidence. The time, speeding values, site, license plate number, proportion of speeding and other factors will show on the captured images:

Vehicle capture rate: $\geq 96\%$

Picture efficiency: \geq over 95%

Rapid Browsing

The operator can obtain offending vehicle information instantly for on-site situations.

Export pictures

Insert flash disk or portable hard disk to the system and it will automatically export all the captured images. You can also manually select pictures of specific date or time and export to flash disk.

Automatically control

Once the system turns on, it will start automatic capture mode. It will select the best capture location and adjust camera parameter automatically (without human intervention). Assistant exposure light will switch on when needed. When there is enough light, the exposure light will automatically switch off.

The system can be operated for 24 hours and it can meet the requirement for different time periods.

Technical Features

- The system uses the most advanced Narrowband radar to capture the speed of the vehicle. Radiation from the device is minimal which ensures the system meets the environmental standard.
- The System uses embedded system, Linux operating system. Small in size, fast processing speed, low power consumption, stable and reliable system operation.
- HD CCD Camera, Professional Image processor, image resolution: 1600*1200
- Automatic: After setting up the system, it will work automatically. It can capture speeding vehicles in a best capture location, continuous capture under high speed traffic. It can auto adjust the camera's shutter, aperture and gain according to the environment.
- Each offending vehicle has at least 2-3 pictures as evidence.
- Uses night-light system to achieve quality night shooting (Face legible).
- Low power consumption, long working hours with built-in 15Ah lithium battery. It can last for more than 12 hours.
- Highly integrated, simple installation



Specifications

Resolution	>= 200 Megapixel
Speed Range	10 Km/h - 250 Km/h
Speed Error	Speed <=100 Km/h, Error: 3 Km/h - 0 Km/h, >=100 Km/h, Error: ~3% - 0 Km/h
Capture Rate	>=96%
Capture Efficiency	>= 95%
Storage	Built in 32GB high speed storage
Working Temperature	-20 °C - 60 °C
Battery	1500 mAh Lithium Battery, working hour >=12 hours
Power	<= 15W (without flash)

Key Features

1. Radar

Frequency	24.150 ± 0.045GHz
Radar Launch Angle	Horizontally not greater than 5°, vertically not greater than 7°
Mounting Angle	Horizontal Interface 25° ± 1° (radiation angle axis is relative to the direction of traffic)
Radiation	2m from any direction of SpeediGuard, leakage power density <=10μW/c m ²

2. Camera

Image Sensor	CCD
Pixel	>= 200 Megapixel
Lens	Megapixel Professional Lens
Processor	DM642 High Speed Image Processor

3. Control Host

Processor	ARM11 1GHz
RAM	512MB
Memory	32GB Storage
Operating System	Linux
Display	8.4" Touch Screen
Port	2 USB, 2 RJ45, WiFi, 3G

4. Others

Tripod	Professional Aluminium Tripod
Lever	Host cover w/ double stainless steel materia, both the lever & host outer box has anti-theft electro-magnetic lock.
Lever Box	Box Size: 466mm (W), 552 (L), 694mm (H) (without fixed base)
External Dimension	Lever Height: 1500mm, Flash Height: 2000mm, Diameter: 108mm
Portable Host Size	225mm (W) x 245mm (L) x 278mm (H)
Inner Box Weight	5.5kg (w/battery)



One Year Warranty

The *SpeediGuard* radar includes a 12 month warranty period.

