

V6251 Series

3MP Speed Enforcement System

Infinova[®]
The Integrator's Manufacturer



- **Speed detection**
- **Integrated image capture, vehicle detection and snapshot with traffic data collection**
- **Trace of vehicle could be drawn precisely by video tracking**
- **Opposite driving violation detection**
- **Extensible I/O (radar, inductive loop, light)**
- **ANPR**
- **Vehicle detection by video, induction coil is unnecessary**
- **Touch line/cross line violation detection**
- **Cover up to 2 lanes**
- **Dual video streams: JPEG and H.264**

HD speed enforcement system, deployed at crossroad, toll gate, checkpoint or road could record and ANPR all passing vehicles. It works with radar that could record speed of each vehicle and alarm over speed violations. The system is realized in the smart camera, which is at low cost, highly reliable, and easy to deploy and maintain.

Technical specifications(V6251-C03)

Camera	
Processor	TI DaVinci Series DSP
Operating System	Embedded Linux
Sensor	1/1.8" CCD
Resolution	1936 x 1452
Pixel Size	3.69μm × 3.69μm
S/N	48dB
Electronic Shutter	0~30ms, level 0.0258ms
White Balance	Automatic or manual
Automatic Exposure	Supported
AGC	Supported
Lens Mount	CS/C
Encoding	
Video Encoding Format	JPEG, H.264, HD-SDI, CVBS
Resolution	JPEG(1936 × 1452), H.264(1920 × 1080), H.264 (1280 × 720), HD-SDI (1920 × 1080)
Frame Rate	JPEG: 12.5fps, H.264:25fps, HD-SDI:25fps
H.264 Video Bit Rate	512 Kbps to 8 Mbps
Functions	
Network Protocol	TCP/IP, UDP, NTP, ONVIF
Remote Upgrade	Supported
OSD	Supported
General	
Operating Environment	Temperature: -4° F ~ 140° F (-20° C ~ 60° C) Humidity: 20% to 95%
Dimensions (H x W x D)	183mm×82mm×75mm
Weight	1400g
MTBF	≥ 30000 hours
Power Consumption	≤ 30W
I/O Signal	2 Snapshot input: one can input Power Grid Synchronization signal. 7 output: 1 LED strobe light control port, 3 LED light synchronization output, 3 snapshot light synchronization output. 2 serial port: RS232/RS485 port, CVBS signal output, HD-SDI signal output
Wire Network	100/1000M Ethernet, RJ45 interface
Power Supply	100 VAC to 240 VAC, 50 Hz to 60 Hz
Intelligent Analysis	
Image Field	V6251-C0325: 1-2 lanes, Head View V6251-C0325-B: 1 lanes, Rear View
Vehicle Detection Rate	≥ 99%
LPR Rate	Daytime: ≥ 92%, night: ≥ 85%
Touch Line Violation Detection Rate	≥ 80%
Opposite Driving Violation Detection	≥ 90%
Allowed Driving speed	0 to 250 km/h

Technical specifications(V8196-1)

Speed Radar	
Model	V8196-1
Antenna Type	Flat Plate Microstrip Array Antenna
PRF	24.15GHz
Frequency Error	≤±45MHz
Antenna Beamwidth	4.5°× 5.5°
Operating Temp.	-40° F ~ 158° F (-40° C ~ 70° C)
Operating Humidity	5%RH~95%RH
Allowed Driving Speed	2~400km/h
Speed Accuracy	-4~0 km/h
Reaction Time	26ms
Direction Detection	Supported
Remote Update	Supported
Power	9~16 VDC
Size	8.27" x 6.77" x 1.97" (210mm×172mm×50mm)
Communication Interface	Full-duplex RS232; Half-duplex RS485
Features	Speed Check Point Function, Specific Trigger Position, One Lane, Universal

Technical specifications(V8192-2)

Flashing Light	
Model	V8192-2
Power Supply	220V AC (165V~265V)
Energy Consumption Per Flash	0~120 Ws adjustable
Lamp Power	100W
Flash Times	≥ 10 million (≥ 100million with mini-watt)
Recycle Time	0.001~0.1s
Flash Time	10us~1000us (continuously adjustable in microseconds)
Triggered Time-delay	0~10s (continuously adjustable in microseconds)
Flash Frequency	0~100 Hz
Trigger Mode	Electrical level (rising edge is effective), RS485 directive
Trigger Voltage	5V~15V (drive current≥2mA)
Reflective Angle of Reflective Bowl	± 15° (adjustable to ± 20°)
Environmental Rating	IP65
Color Temperature	5600K
Operating Temperature	-13° F ~ 176° F (-25° C ~ 80° C)
Storage Temperature	-40° F ~ 185° F (-40° C ~ 85° C)
Weight	7.72lbs (3.5kg)
Dimensions (L×W×H)	14.80"x8.98"x3.58" (376mm×228mm×91mm)

Ordering information

Cameras

- V6251-C0325 HD Megapixel IP intelligent transport box camera, 1/1.8" CCD sensor, H.264/M-JPEG, 3.0 Mpx, 2lanes, 100 VAC to 240 VAC,
- V6251-C0325-B HD Megapixel IP intelligent transport box camera, 1/1.8" CCD sensor, H.264/M-JPEG, 3.0 Mpx, 1lane, 100 VAC to 240 VAC

Lens

- V1181-25-1 Lens, 2 Mega pixels, f=25mm, F/1.4, Manual iris, 2/3 inch, C

Housing

- V1406-11SHBX Camera housing, indoor/outdoor, 11 inch internal, pneumatic supporting lid, w/sun shield, heater&blower, 220VAC

Mount Adapter

- V1573 Mount Adapter, 44.09lbs (20kg) load

Radar

- V8196-1 Flat Plate Microstrip Array Antenna Speed Radar, PRF = 24.15GHz, Angel = 4.5°× 5.5° 12VDC

Flashing light

- V8192-2 Flashing light, 100W, 5600K Color temperature, IP65, 220VAC

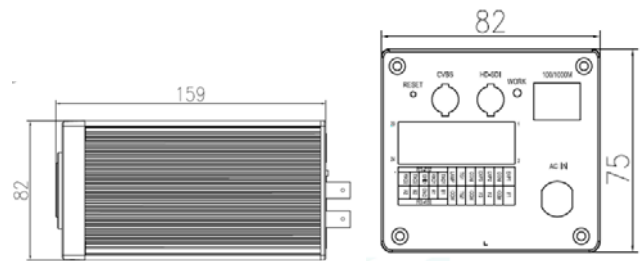
Radar Power Supply

- N3925-12D-1 Power Supply, 12VDC, 1.5A, Plug-In, 100-240VAC

Back panel



Dimensions (unit: mm)



Installation diagram

