

V6261 Series

6MP+2MP Traffic Light Enforcement System

Infinova[®]
The Integrator's Manufacturer



- **Traffic light violation detection and LPR**
- **Vehicle detection by video**
- **Left/right turn violation detection**
- **Touch line violation detection**
- **Traffic flow collection**
- **Traffic light recognition by video**
- **Dual video streams: JPEG and H.264**
- **Cover 3 lanes**

For some countries, the license plate contains small characters to recognize province or city, such as Thailand, Saudi Arabia, Pakistan and United Arab Emirates. The small characters must be shown clearly in the snapshot used as evidence of traffic violation. This effect cannot be realized by one 6MP camera, which has to cover traffic lanes and traffic light.

The 6MP + 2MP solution is designed to satisfy this need. 6MP camera is used to realize full scene detection, for traffic violation, vehicles recording and tracking. Each 2MP camera is used as snapshot camera, covering one traffic lane.

6MP full scene camera analyzes vehicles and 2MP camera takes snapshots at pointed location when it receives the signal given by 6MP camera.

The result is composed by the trace picture (supported by 6MP camera) and the snapshot (supported by 2MP). It presents complete and clear evidence of traffic violation. And ANPR can be realized in the 2MP camera for special need.

Technical specifications(V6261-C06)

Camera	
Processor	TI TMS320DM8127
Operating System	Embedded Linux
Sensor	1/1.8"
Resolution	3072 x 2048
Electronic Shutter	12μs~30ms, Steps: 12μs
White Balance	Automatic or manual
Automatic Exposure	Supported
AGC	Supported
Lens Mount	CS/C
Encoding	
Video Encoding Format	MJPEG, H.264, CVBS
Resolution	MJPEG (3072 x 2048), H.264 (1080P, 720P)
Frame Rate	MJPEG: 25fps, H.264: (1080P, 720P: 25fps), CVBS: (PAL: 25fps; NTSC: 30fps)
H.264 Video Bit Rate	32 Kbps to 8 Mbps
Functions	
Network Protocol	TCP/IP, UDP, HTTP, FTP, NTP, ONVIF, RTSP
Remote Upgrade	Supported
OSD	Supported
Port	
Wire Network	100/1000M Ethernet, RJ45 interface
General	
Power Supply	100 V AC to 240 V AC, 50 Hz to 60 Hz
Operating Environment	Temperature: -4° F ~ 140° F (-20° C ~ 60° C); Humidity: 20% to 95%
Dimensions (H x W x D)	4.84" x 2.72" x 2.72" (123mm x 69mm x 69mm)
Weight	2.51lbs (1140g)
MTBF	≥ 30000 hours
Power Consumption	≤ 20W
I/O	1 SD card slot 1 RS485 serial port 1 LED light control port 1 CVBS video output port
Image Field	2-3 lanes
Traffic Light Violation Detection	≥ 99%
Lane Detection Violation	≥ 99%
Touch Line Violation Detection	≥ 99%
Opposite Driving Violation Detection	≥ 90%
Traffic Flow Collection	Traffic detection error: ≤5%
	Lane occupancy detection error: ≤ 5%
	Average vehicle speed detection error: ≤10%
	Headway detection error: ≤ 5%
Allowed Driving Speed	0 to 120 km/h

Technical specifications(V6261-C02)

Camera	
Processor	TI TMS320DM8127
Operating System	Embedded Linux
Sensor	1/1.9"
Resolution	1920 x 1080
Electronic Shutter	30μs~30ms, Steps: 10μs
White Balance	Automatic or manual
Automatic Exposure	Supported
AGC	Supported
Lens Mount	CS/C
Encoding	
Video Encoding Format	MJPEG, H.264, CVBS
Resolution	MJPEG (1920 x 1080), H.264 (1080P (1920 x 1080), 720P (1280 x 720), CVBS (PAL: 720 x 576; NTSC: 720 x 486)
Frame Rate	MJPEG: 25fps, H.264: (1080P/720P: 25fps), CVBS: (PAL: 25fps; NTSC: 30fps)
H.264 Video Bit Rate	32 Kbps to 8 Mbps
Functions	
Network Protocol	TCP/IP, UDP, HTTP, FTP, NTP, ONVIF, RTSP
Remote Upgrade	Supported
OSD	Supported
Port	
Wire Network	100/1000M Ethernet, RJ45 interface
General	
Power Supply	100 V AC to 240 V AC, 50 Hz to 60 Hz
Operating Environment	Temperature: -4° F ~ 140° F (-20° C ~ 60° C); Humidity: 20% to 95%
Dimensions (H x W x D)	4.84" x 2.72" x 2.72" (123mm x 69mm x 69mm)
Weight	2.51lbs (1140g)
MTBF	≥ 30000 hours
Power Consumption	≤ 20W
I/O Signal	1 SD card slot 1 RS485 serial port 1 LED light control port 1 CVBS video output port
Image Field	1 lane
Vehicle Detection Accuracy	≥ 98%
ANPR Accuracy	Daytime: ≥ 92%, night: ≥ 85%
Allowed Driving Speed	0 to 120 km/h

Technical specifications(V8191-5)

LED Light	
Model	V8191-5
Average Power	55W (max.)
Instantaneous Power	120W (max.)
LED Number	16 pcs
Output Light Intensity	3000 lm
Output Angle	38°
Color Temperature	6700K
Light Attenuation	15% (After 5000-hour working)
Environmental Rating	IP66
Power	110VAC-220VAC

Ordering information

Cameras

V6261-C0629 HD Megapixel IP intelligent transport box camera, 1/1.8" CMOS sensor, H.264/M-JPEG, 6.0 Mpx, 100 VAC to 240 VAC

V6261-C0225 HD Megapixel IP intelligent transport box camera, 1/1.9" CMOS sensor, H.264/M-JPEG, 2.0 Mpx, 100 VAC to 240 VAC

Lens

V1181-12-1 Lens, 2 Mega pixels, f=12mm, F/1.4, Manual iris, 2/3 inch, C (for V6261-C0629)

V1181-35-1 Lens, 2 Mega pixels, f=35mm, F/1.4, Manual iris, 2/3 inch, C (for V6261-C0225)

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

LED light

V8191-5 LED Light, 30m, 38 deg., IP66, 16pcs LED, 6700K color temperature, 110VAC-220VAC

Back panel



Installation diagram

