

ST-IP4VFB-LPR

4MP IP LPR Motorized Varifocal Bullet Camera

The SecurityTronix 4MP IP License Plate Recognition (LPR) Bullet Camera provides clear, accurate license plate capture for stationary and moving vehicles—even in low-light conditions. Built-in allowlist and blocklist capabilities support vehicle access control by permitting or restricting entry based on recognized license plates.

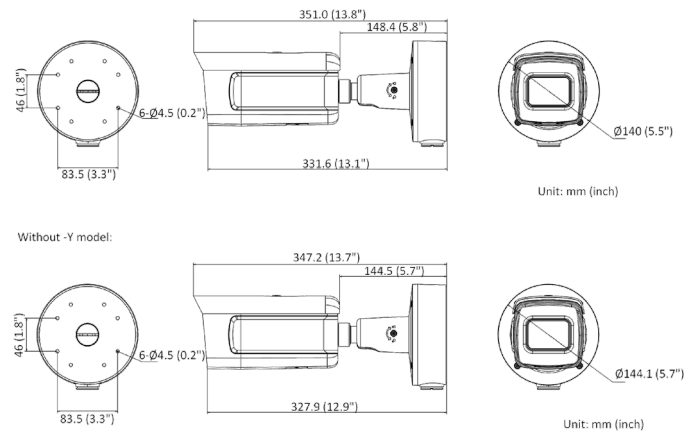
Ideal for parking facilities, gated communities, hotels, casinos, and other controlled-access locations, this camera helps improve site security, vehicle monitoring, and traffic management.



Key Features

- 1/1.8" progressive scan CMOS
- 4MP resolution: 2688 × 1520
- 2.8–12 mm motorized varifocal lens
- Ultra-low-light imaging with Smart IR
- **Smart IR:** Automatically adjusts infrared intensity based on an object's distance from the camera, helping reduce overexposure and washout while improving license plate clarity in low-light and nighttime environments.
- Up to 328 ft. (100 m) IR range
- 140 dB Wide Dynamic Range
- 98% license plate recognition accuracy*
*Recognition accuracy depends on installation, lighting, vehicle speed, camera placement, and environmental conditions.
- Built-in allowlist and blocklist for automated vehicle access control
- Detects vehicle type, color, and manufacturer
- Five video streams
- H.265+/H.265/H.264+/H.264 video compression
- microSD card storage up to 1 TB
- 12 VDC or PoE+ (802.3at) power
- IP67 weather-resistant and IK10 vandal-resistant construction
- Junction box included

Dimensions



Accessories



Junction Box
ST-JB5



Mounting Bracket
ST-PTZPMPS



Mounting Bracket
ST-PTZCRMS



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Camera		Video	
Image Sensor	1/1.8" Progressive Scan CMOS	Main Stream	50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)
Max. Resolution	2688 × 1520	Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON); B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR	Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Shutter Time	1 s to 1/100,000 s	Fourth Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Day & Night	IR cut filter Blue glass module to reduce ghost phenomenon	Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Lens		Video Compression Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, Fourth stream: H.265/H.264/MJPEG, Fifth stream: H.265/H.264/MJPEG	
Focal Length & FOV	2.8 to 12 mm, horizontal FOV: 114.5° to 41.8°, vertical FOV: 59.3° to 23.6°, diagonal FOV: 141.1° to 48° 8 to 32 mm, horizontal FOV: 42.5° to 15.1°, vertical FOV: 23.3° to 8.64°, diagonal FOV: 49.6° to 17.3°		
Focus	Auto, semi-auto, manual		
Iris Type	P-iris		
Aperture	2.8 to 12 mm: F1.2 to F2.5 8 to 32 mm: F1.7 to F1.73		
DORI		Video Bit Rate	32 Kbps to 8 Mbps
DORI	Wide: 2.8 to 12 mm: D: 60 m, O: 23.8 m, R: 12 m, I: 6 m 8 to 32 mm: 150.3 m, O: 59.7 m, R: 30.1 m, I: 15 m Tele: 2.8 to 12 mm: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m 8 to 32 mm: D: 400 m, O: 158.7 m, R: 80 m, I: 40 m	H.264 Type	Baseline Profile, Main Profile, High Profile
		H.265 Type	Main Profile
		Bit Rate Control	CBR, VBR
		Scalable Video Coding (SVC)	H.265 and H.264 encoding
		Region of Interest (ROI)	4 fixed regions for each stream
		Target Cropping	Yes
Illuminator		Network	
Supplement Light Type	IR	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, WebSocket, WebSockets
Supplement Light Range	2.8 to 12 mm: 50 m 8 to 32 mm: 100 m	Simultaneous Live View	Up to 20 channels
Smart Supplement Light	Yes	API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP
IR Wavelength	850 nm	User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Image		Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2
Image Parameters Switch	Yes		
Image Settings	Saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser		
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger, Video Trigger		
Wide Dynamic Range (WDR)	140 dB		
SNR	≥ 52 dB	Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end memory card, memory card encryption and health detection are supported
Image Enhancement	BLC, HLC, Defog, 3D DNR	Client	STG02, iVMS-4200, Guarding Vision, VMS Platform
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format	Web Browser	Plug-in required live view: IE8+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome 41.0+, Firefox 30.0+
Image Stabilization	EIS		

800-460-1801 | sales@securitytronix.com | www.securitytronix.com

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Interface		General	
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)	Power	12 VDC ± 20%, 1.19 A, max. 14.28 W, three-core terminal block PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.396 A to 0.295 A, max. 16.8 W
Ethernet Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port	Material	Aluminum alloy body
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB	Storage Conditions	-22 °F to 140 °F (-30 °C to 60 °C). Humidity 95% or less (non-condensing)
Audio	With -Y: 1 input (line in), 1 output (line out), 3.5 mm connector	Startup and Operating Conditions	-40 °F to 140 °F (-40 °C to 60 °C). Humidity 95% or less (non-condensing)
Alarm	2 input, 2 outputs (max. 24 VDC, 1 A)	Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
RS-485	With -Y: 1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)		
Reset Key	Yes	General Function	Anti-flicker, 5 streams, EPTZ, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel counter
Power Output	With -Y: 12 VDC, max. 100 mA	Dimensions	Without -Y: Ø5.7" × 13.7" (Ø144 × 347 mm) With -Y: Ø5.5" × 13.8" (Ø140 × 351 mm)
Wiegand	-Y: 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72bit)	Weight	Approx. 4.2 lbs. (1950 g)
		Warranty	2-Year Limited Fixed Camera Warranty
Event		Approval	
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, abnormal reboot, HDD full, HDD error), video quality diagnosis, vibration detection	EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 7); KC (KN 32: 2015, KN 35: 2015)
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, audio exception detection, scene change detection, defocus detection	Safety	UL (UL 62368-1); CB (IEC 62368-1:2014+A11); CE-LVD (EN 62368-1:2014/A11:2017); BIS (IS 13252(Part 1):2010/ IEC 60950-1 : 2005); LOA (IEC/ EN 60950-1)
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning	Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Deep Learning Function		Protection	IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types	Anti-Corrosion Protection	With -Y: NEMA 4X(NEMA 250-2018)
Road Traffic and Vehicle Detection	Blocklist and allowlist: up to 10,000 records Support license plate recognition of motorcycles (only in checkpoint scenario) Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.) License plate recognition rate ≥98%	Automotive and Railway	EN50121-4
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting detection, road traffic	Other	PVC FREE