



S Series

IB9387-LPR-V3 (7-22 mm) (V)

5MP License Plate Recognition
Camera



Technical Specifications

System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	eMMC 8 GB
RAM	DDR4 2 GB

Camera Specifications	
Image Sensor	1/2.8" Progressive CMOS
Max. Resolution	2560x1920 (5MP)
Lens Type	Motorized, Vari-focal, Remote Focus
Focal Length	f= 7 ~ 22 mm
Aperture	F1.70(W) ~ F2.90(T)
Iris Type	P-iris
Field of View	39.3çX ~ 15.5çX (Horizontal) 28.8çX ~ 11.6çX (Vertical) 50.8çX ~ 19.4çX (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro
Day/Night	Yes
Removable IR-cut filter	Yes
Illuminators	Built-in IR illuminators, IR LED*4 (50IRE)
Minimum Illumination	0.035 lux @ F1.7 (Color) <0.005 lux @ F1.7 (B/W) 0 lux with IR illumination on
Pan Range	±180çX
Tilt Range	90çX
Rotation Range	±180çX
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)
Storage	Seamless Recording to MicroSD/SDHC/SDXC card (1TB Capacity Supported) and recording to network-attached storage (NAS)
Built-in Installation Aids	Remote focus, remote zoom, Micro USB* , pixel calculator *Requires Wi-Fi dongle and Micro B converter

Video	
Compression	H.265, H.264, MJPEG
Maximum Frame Rate	60 fps @ 1920x1080
Maximum Streams	4 simultaneous streams
S/N Ratio	66.2 dB
Dynamic Range	140dB
Video Streaming	Adjustable resolution, quality and constant bit rate control, Smart Stream III
Image Settings	Adjustable image size, quality and bit rate; Time stamp, text overlay, flip & mirror; Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, AE speed, privacy masks; Scheduled profile settings, HLC, defog, 3DNR, EIS, video rotation, lens profile, remote focus(i-CS), Remove back focus, Scene Mode

Audio	
Audio Capability	Two-way Audio
Compression	G.711, G.726, MPEG-2 AAC-LC
Interface	External microphone input External line output

Network	
Users	Live viewing for up to 10 clients
Security	Access list, CSRF protection, digest authentication, HTTPS , IEEE 802.1x, password protection, secure boot, signed firmware, Trend Micro IoT Security (brute force attack event, cyberattack event, quarantine event), user access log, user account management
Protocols	802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP/SFTP, HTTP/HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2, UDP, UPnP
Interface	10 Base-T/100 Base-TX Ethernet *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.
ONVIF	Supported, specification available at www.onvif.org

AI Analytics	
Compute Capability	SoC with built-in hardware deep learning accelerator
Application available with license	VaxALPR

Solution Integration	
Embedded Software	VaxALPR
VADP Package	Trend Micro IoT Security

Alarm and Event	
Event Trigger	<p>Camera: Audio detection, camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), digital input, manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, shock detection, system boot</p> <p>VaxALPR Software: FTP, JSON, XML, TCP Server, TCP client, Wiegand protocol supported</p>
Event Action	<p>Event notification via audio clip, camera link, digital output, email, HTTP, FTP/SFTP, NAS server, SD card</p> <p>File upload via email, HTTP, FTP/SFTP, NAS server, SD card</p>

General	
Connectors	Default IO RJ-45 cable connector for 10/100 Mbps PoE network connection Audio line input Audio line output DC 12V power input AC 24V power input Digital input*2 Digital output*2 (DO+: 12V, 50mA ; DO-: 30V, Open Drain, 1A) Micro USB
LED Indicator	System power and status indicator
Power Input	AC 24V*, DC 12V, IEEE 802.3af PoE Class 0 (Power Redundancy)
Power Consumption	PoE: Max. 12.95W/ 10.55W (IR on/off) DC 12V: Max. 14.4W/ 12.0W (IR on/off) AC 24V*: Max. 12W/ 9.6W (IR on/off)
Dimensions	? 153 x 285.7 mm
Weight	2.20 kg
Certifications	EMC CE (EN 55032/EN 55035 Class A, EN 50121-4), FCC (FCC Part 15 Subpart B Class A), UKCA (BS EN 55032/BS EN 55035 Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), IC (ICES-003 Issue 7) Safety UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471), LVD, (EN 62368-1), UKCA (BS EN IEC 62368-1) Environment IK10 (IEC 62262), IP66/67 (IEC 60529), NEMA (NEMA 250 Type 4X), IEC 60068-2-11 IA BIS (IS 13252), BSMI (EMC: CNS 13438, Safety: CNS 14336-1)
Operating Temperature	Starting Temperature: -30°C ~ 60°C (-22°F ~ 140°F) Working Temperature: -40°C ~ 60°C (-40°F ~ 140°F) (IR off) -40°C ~ 50°C (-40°F ~ 122°F) (IR on)
Humidity	98% RH (non-condensing)

System Requirements	
Operating System	Microsoft Windows 10/8/7 Mac 10.12 (Chrome only)
Web Browser	Chrome 58.0 or above Internet Explorer 11
Other Players	VLC: 1.1.11 or above

Included Accessories	
Packing Contents	Quick installation guide, product labels, alignment sticker, L-shaped wrench, screw pack, waterproof accessory pack, sunshield, adapting plate, conduit bracket, I/O cable

DORI (EN 62676-4 Standard)	
Detection (25PPM/ 8PPF)	Wide: 157.3 m (516.0 ft) Tele: 378.2 m (1240.6 ft)
Observation (63PPM/ 19PPF)	Wide: 62.7 m (205.6 ft) Tele: 151.3 m (496.2 ft)
Recognition (125PPM/ 38PPF)	Wide: 31.4 m (103.2 ft) Tele: 75.9 m (249.1 ft)
Identification (250PPM/ 76PPF)	Wide: 15.7 m (51.4 ft) Tele: 37.9 m (124.3 ft)

