

L6A Enterprise LPR Camera

See the plate, know the story



Compliant with NDAA 2019
Section 889

Fusing industry-leading video streaming capabilities with cutting-edge LPR technology, scan license plates and stream video footage. Built with two lenses, this multipurpose camera accurately captures vehicle data, increases awareness and provides analytical capabilities beyond what a traditional security or LPR camera could do alone.



Never Miss a Detail

With two motorized lenses, one purpose-built LPR camera and one context color camera, this 3MP camera precisely captures plates, day to night, and spots incidents up to 100 mph, over 330¹ ft (100m) away.



Scan and Stream Data

Pair the L6A and Avigilon Unity Video with VehicleManager Enterprise² to access on-site LPR insights and leverage a variety of patented analytics to stop at-risk vehicles from entering your site and hindering daily operations.



Added Layer of Protection

If requested, the license plates captured by your L6A will be checked against local and federal watchlists. Should a vehicle linked to criminal activity or potential threats enter your premises, the police will be promptly notified.



Prevent Unauthorized Access

Generate your own watchlist and receive notifications whenever your camera scans a prohibited plate. Although these scans will not notify law enforcement, you'll know if an unwanted individual is on site and can take action.



Aid in Investigations

The L6A is essential for investigators with both video and photographic evidence. The indisputable proof expedites investigations and the time it takes to hold someone accountable, effectively preventing repeat offenders.



Peace of Mind

Trust that your data is well-protected with NDAA-compliance and advanced cybersecurity features such as an onboard FIPS 140-2 level 3 compliant TPM and Secure Boot.

¹ Capture range varies depending on time of day. Max. Low light capture range is up to 250 ft (76.2m). Daylight capture range (20-330 ft).

² Separate licensing for VehicleManager Enterprise is required. US Cloud-based solution, separate licensing required.

To learn more, visit [L6A Camera webpage](#).

Specifications

IMAGE PERFORMANCE		3.0 MP
Context Image Sensor	1/2.9" color global shutter CMOS	
LPR Image Sensor	1/2.9" monochrome global shutter CMOS	
Max Resolution (H x V)	1440x1080	
Sensor Aspect Ratio	4:3	
Max Frame Rate	60 Hz: 60 fps	
Camera Operating Mode	Full Feature	
3D Noise Reduction Filter	Supported	

LENS AND IR ILLUMINATION		5 - 125 MM
IR Illumination Max Distance ¹	100 m (330 ft)	
Minimum Illumination	0 Lux with IR	
Horizontal Field of View	52° - 3°	
Vertical Angle of View	40° - 2°	
Max Aperture	F1.6	
Lens Control	Remote Zoom and Focus, Autofocus, IR Cut Filter	

¹ Available IR Illumination options, 850nm or 730nm

IMAGE CONTROL	
Image Compression Method	H.264, Motion JPEG
Streaming	Multi-stream H.264, Motion JPEG
Electronic Shutter Control	Automatic, Manual (1/600 to 1/20000 sec)
Day/Night Control	Automatic, Manual
Iris Control	DC-Iris
White Balance	Automatic
Backlight Compensation	Adjustable
Region of Interest	Up to 16

NETWORK	
Network	1000 BASE-T
Cabling Type	CAT5
Connector	RJ45 Connector
ONVIF	ONVIF® Profile S and Profile M (www.onvif.org)
Security	Secure Boot, Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication, onboard FIPS 140-2 L3 certified TPM
Protocols	IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP, HSTS



NETWORK		
Streaming Protocols		RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP
Device Management Protocols		SNMP v2c, SNMP v3
PERIPHERALS		
USB Port		USB C
External Storage		microSD/microSDHC/microSDXC slot – video speed class card required. Class V10 or better recommended.
AUXILIARY I/O		
External I/O Terminal		Alarm In, Alarm Out
MECHANICAL		
Dimensions (L x W x H)	Camera with junction box	361 x 197 x 111 mm or 14.2 x 7.8 x 4.4 in
Weight		3.15 Kg
Body		Aluminum
Housing		Aluminum
Finish		High polished plastic injection mold; Powdercoat grey, pantone 427°C
Adjustment Range		±175° pan, ±90° tilt, ±175° azimuth
ELECTRICAL		
Power Source		POE+ IEEE 802.3at Class 4
IR Illuminator Behaviour		IR illuminator will turn off if the temperature is 60°C (149°F) or higher.
External Power		24 VDC +/-10%
Power Consumption		25 W max, (PoE+)
Memory ²		8GB RAM, 480GB Flash
² Manufactured after June 1, 2026: Internal flash memory upgraded to 480 GB (previously 64 GB).		
ENVIRONMENTAL		
Operating Temperature ³		-40°C to +60°C (-40°F to 140°F)
Storage Temperature		-10°C to +70°C (14°F to 158°F)
Absolute Maximum Temperature		74°C (165°F) per NEMA TS2 (Temp.) para 2.2.7.2 - 2.2.7.7
Humidity		0 - 95% non-condensing
³ Cold start -25C.		
CERTIFICATIONS		
Certifications/Approvals		UL,cUL, FCC, IC, CE, UKCA, ROHS, REACH, RCM
Safety Standards		UL/CSA/IEC/EN 62368-1 (2nd and 3rd edition), IEC62471:2006, IEC60950-22:2016 (Safety Outdoor)
Environmental Standards/Ratings		IEC 60529 IP66, IP67, NEMA 250 4X (Hosedown), IEC 60068-2-27 (Shock), IEC 60068-2-6 (Vibration), NEMA TS2 Shock & Vibration, IEC 62262, IK10
Electromagnetic Emissions Standards		FCC Part 15 Subpart B, Class A, ICES-003 Issue 7 (Class A), FCC Part 15 Subpart C, ISSED RSS-247 Issue 4, FCC Part 15 Subpart E, EN 55032:2015+A11:2020, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021+A2:2024, EN 61000-3-3:2013+A1:2019+A2:2021, EN IEC 61000-6-8:2020, EN 300 328 V2.2.2



CERTIFICATIONS

Electromagnetic Immunity Standards	EN 55035:2017+A11:2020, EN 50130-4:2011 + A1:2014, EN IEC 61000-6-1:2019, EN 301 489-1 V2.2.3, EN 301 489-17 V3.3.1, EN 301 893 V2.2.1
Warranty	Limited 5 Year Warranty (avigilon.com/warranty)

Analytics Specifications

SUPPORTED VEHICLE DETECTION ANALYTICS

Plate	Characters on vehicle plate.
Plate State or Region	State or Region of the vehicle plate.
Make	Make of the vehicle.
Model	Model of the vehicle.
Color	Color of the vehicle.
GPS Coordinates	GPS Coordinates of the vehicle.
Vehicle Speed	The speed of the vehicle.
Vehicle Direction	The direction of the vehicle.

SUPPORTED CLASSIFIED OBJECT TYPES

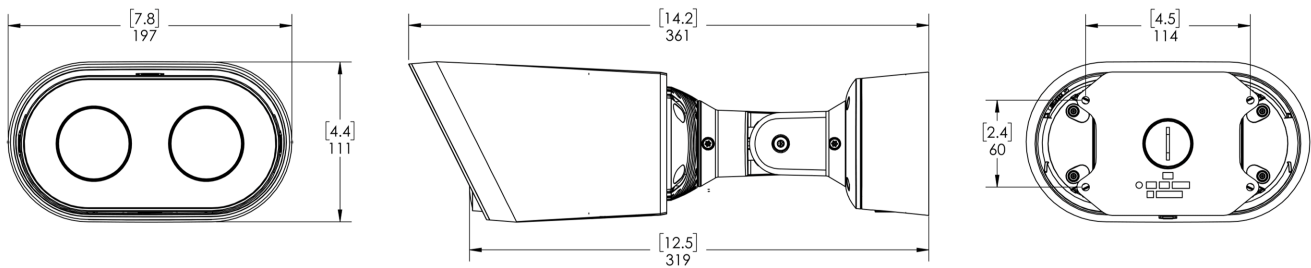
Object Types	Vehicle, sub-types: Car, Pickup Truck, Large Truck, Van, Bicycle, Motorcycle, Bus
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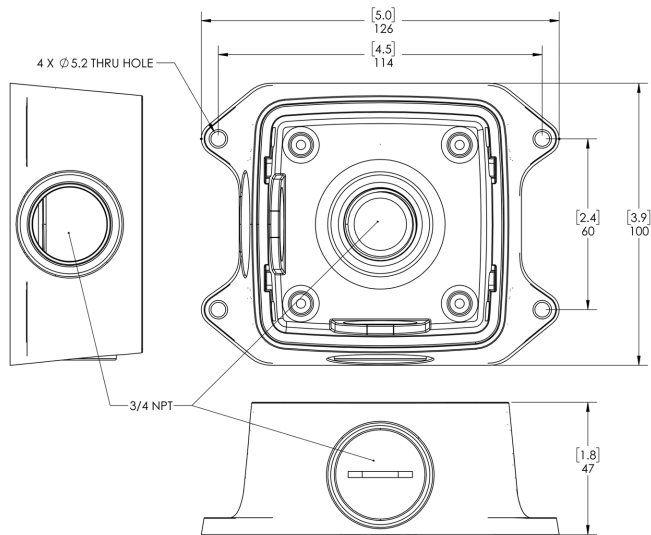
Outline Dimensions

L6A Bullet Camera

[X.X]	INCHES
X	MM



Junction box



Ordering Information

BULLET CAMERA MODEL NUMBERS	
VSF-L6A-8IR	L6A Camera with License Plate Recognition, 850nm
VSF-L6A-7IR	L6A Camera with License Plate Recognition, 730nm
ACCESSORY MODEL NUMBERS	
PLMT-1001	Pole Mount Adapter
VS-L6A-SHADE	L6A Sunshade Replacement
VI-5GHUB-4	5G Hub

Support

Learn more and find additional documentation at [avigilon.com](https://www.avigilon.com) or email sales@avigilon.com for specific product support.



AVIGILON

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