ALLNET IP Bullet Camera / Outdoor / 8MP / IR / Low-Light / Motorized Vario Lens / 109° / Includes Junction Box “ALL-CAM2596-LEFN”

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Highlights

- 8 MP / 4K resolution (3840 × 2160) at up to 60 fps for smooth footage of fast-moving subjects
- Large 1/1.8" sensor (Sony STARVIS 2) for excellent low-light images – down to 0.0008 lux in colour (F1.2)
- Motorised 2.8–12 mm @ F1.2 varifocal lens with P-Iris, autofocus and day/night focus lens
- Smart IR with 6 IR LEDs (850 nm) and a range of up to 80 m
- AI video analytics (VCA 2.0) with 8 detection modes and person/vehicle classification to reduce false alarms
- Advanced AI functions: face detection, attribute recognition, object counting, heatmap, helmet detection, fall and violence detection
- AI ISP for noise reduction and improved image sharpness in very dark environments
- 120 dB Super WDR, Digital Image Stabilisation (DIS) and Quad-Stream
- Robust housing compliant with IP67 and IK10, integrated connection box and built-in lens heater, operating temperature range from -40 °C to +60 °C
- Power supply via PoE+ (802.3at) or DC 10–28 V, microSD slot up to 1 TB, ONVIF Profiles G/M/S/T, NDAA-compliant (see accessories)

Product description

The ALL-CAM2596-LEFN is a professional AI bullet network camera with a motorised lens for demanding outdoor and indoor surveillance tasks. With true 4K resolutionresolution (3840 × 2160 pixels) at up to 60 frames per second, it delivers detailed, smooth video footage – even of fast-moving people and vehicles. Digital image stabilisation (DIS) also ensures steady footage, whilst Quad-Stream technology saves bandwidth and storage

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space by allowing individual streams to be used specifically for recording, live view, mobile access or AI processing.

At the heart of the camera is a large 1/1.8" Sony STARVIS 2 sensor combined with a fast day-night focus lens (F1.2). This produces clear colour images down to 0.0008 lux. The integrated AI ISP reduces image noise and improves clarity even in very dark scenes. In complete darkness, six IR LEDs with a range of up to 80 m take over. The pr&precise P-Iris control and 120 dB Super WDR ensure well-balanced images in backlit conditions and high-contrast scenes.

The motorised 2.8–12 mm varifocal lens with autofocus can be conveniently adjusted remotely – without having to re-attach it to the camera. The horizontal field of view ranges from approx. 105° at the wide-angle end to approx. 47° at the telephoto end. According to the DORI standard, it is possible to identify individuals at distances of up to approx. 20.8 m and detect them at distances of up to approx. 212 m.

The VCA 2.0 AI video analytics system utilises deep learning to classify people and vehicles, thereby ensuring particularly low false alarm rates. The eight detection modes include intruder detection, area entry and exit, advanced motion detection, line crossing, loitering, and abandoned and removed objects. Furthermore, the camera detects up to 50 targets simultaneously, including attributes such as clothing colour and vehicle type; it captures faces with features such as age, gender, glasses or masks; andcounts people and vehicles, generates heatmaps and detects missing safety helmets, falls and violent behaviour. To ensure data protection, faces or individuals can be automatically pixelated.

The robust industrial housing is weatherproof to IP67 and vandal-proof to IK10, and operates reliably between –40 °C and +60 °C. An integrated connection box, a built-in lens heater and a wide range of interfaces – PoE+, DC 10&–28 V, 2 alarm inputs/outputs and audio input/output – simplify installation. Videos can be stored locally on microSD cards with capacities of up to 1 TB. Thanks to ONVIF Profile G/M/S/T, SIP/VoIP support, up to 32 simultaneous user connections with role-based access control and integrated security features such as encrypted communication,, the camera integrates seamlessly into professional video security systems. Its NDAA compliance also makes it suitable for public sector and project tenders.

Technical Specifications

General	
Model	ALL-CAM2596-LEFN
Design	AI bullet network camera with motorised lens
NDAA	NDAA-compliant
Camera	
Image sensor	1/1.8" progressive scan CMOS (Sony STARVIS 2)
Minimum illumination	Colour: 0.0008 lux @ F1.2; B/W: 0 lux with IR
WDR	120 dB Super WDR
Shutter speed	1/100,000 s – 1 s
Day/Night mode	Day / Night / Auto / Custom / Schedule
DORI range	Detection: 98.8–212 m; Surveillance: 38.8–83.4 m; Recognition: 19.4–41.8 m; Identification: 9.7–20.8 m
Signal-to-noise ratio	> 55 dB

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IR illumination	
Number of IR LEDs	6
Wavelength	850 nm
IR range	up to 80 m
IR control	Auto / Manual
Lens	
Lens	Motorised 2.8–12 mm @ F1.2
Field of view	H 105.3°–46.8° / D 122.6°–53.9° / V 55.6°–26.2°
Minimum focus distance	Wide-angle: 1 m; Telephoto: 1.5 m
Camera adjustment	Pan: 0°–360°; Tilt: 0°–90°; Rotate: 0°–360°
Lens mount	F17
Focus control	Auto / Manual
Aperture	max. F1.2
Iris	P-Iris, Auto / Manual control
Video	
Max. resolution	3840 × 2160 (8 MP / 4K)
Main stream	60 Hz: 60 fps / 50 Hz: 50 fps @ 3840×2160, 3072×2048, 2592×1944, 2592×1520, 2048×1536, 1920×1080, 1280×960, 1280×720
Secondary stream	60 Hz: 60 fps / 50 Hz: 50 fps @ 704×576, 640×480, 640×360
Third stream	60 Hz: 30 fps / 50 Hz: 25 fps @ 1920×1080, 1280&×720, 704×576, 640×480, 640×360
Fourth stream	10 fps @ 1280×720; 60 Hz: 30 fps / 50 Hz: 25 fps @ 704×576, 640×480, 640×360
Video compression	H.265+ / H.265 (HEVC) / H.264+ / H.264 / MJPEG
Video bitrate	16 Kbps – 10,840 Kbps
Image	
AI ISP	Supported
Privacy zones	up to 8 areas (mask or mosaic)
ROI	up to 8 areas
Image settings	Brightness / Contrast / Saturation / Sharpness
Image rotation	Off, 180°, horizontal flip, vertical flip, 90° clockwise / anti-clockwise
Image enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-Flicker, LDC, DIS
Hybrid zoom	up to 32x

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Network & Interfaces	
Ethernet	1 × RJ45 10/100 Mbit/s
Audio input/output	1 / 1
Alarm input/output	2 / 2 (Alarm output 2: wet contact, 10 mA, 12 V DC)
Network storage	NAS (NFS, SMB/CIFS), ANR
Protocols	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, LLDP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SFTP, SNMP, UPnP, Bonjour, SIP, VPN, PPPoE, VLAN, IEEE 802.1X, QoS, IGMP, ICMP, SSL, TLS 1.2, Multicast
Security features	Role-based access control, IP address filtering, secure authentication, encrypted communication, configurable security policies, secure firmware validation
Concurrent users	up to 32
Audio	
Audio compression	G.711 / AAC / G.722 / G.726
Sampling rate	8 / 16 / 32 / 44.1 / 48 kHz
Audio bitrate	16–256 kbps
Intelligent analysis	
Video analysis (VCA 2.0)	Intruder detection, area entry, area exit, advanced motion detection, line crossing, loitering, object left behind, object removed
Attribute detection	Up to 50 targets simultaneously; real-time detection of people and vehicles, including attributes such as clothing colour, headwear, accessories and vehicle type (bicycle, car, motorbike, bus, lorry, e-scooter)
Face recognition	Face detection with real-time snapshots; attributes including age, gender, glasses, face masks, caps; privacy mode with automatic pixelation
Object counting & reporting	Counting of line crossings (people/vehicles); area-based people counting for up to 4 areas
Heatmap	Statistical behaviour analysis to identify high-traffic areas
Helmet detection	Detects people without a helmet and triggers an alarm
Privacy protection	Automatic pixelation of faces or people in the main and secondary streams (H.265/H.264)
Fall detection	Detects falls and triggers an alarm
Violence detection	Detects violent behaviour and triggers an alarm
Events	
One-Click Disarm	Supported

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Basic events	Motion detection, tamper detection, audio alarm, external input, external output, etc.
Exceptions	Network interruption, IP address conflict, recording error, SD card full / not initialised / faulty / missing, etc.
Event actions	FTP upload, SMTP upload, SD card recording, snapshot, external output, audio playback, SIP call, HTTP notification, etc.
System	
Watermark	Supported
Local storage	microSD/SDHC/SDXC up to 1 TB
SIP/VoIP	Yes, voice & video over IP
System compatibility	ONVIF Profiles G / M / S / T, API
Electrical & mechanical specifications	
Power supply	PoE+ (IEEE 802.3at) / DC 10–28 V
Power consumption	Min.: 4 W (DC), 4.9 W (PoE+) 24-hour average: 5.5 W (DC), 6.7 W (PoE+) Max.: 15.4 W (DC), 17.8 W (PoE+)
Surge protection	6 kV
Lens heater	Integrated
Operating temperature	–40 °C to +60 °C
Humidity	0–95% rel. (non-condensing)
Protection rating	IP67 (weatherproof), IK10 (vandal-proof)
Dimensions	320 × 134 × 126 mm
Net weight	approx. 1.6 kg
Gross weight	approx. 2.4 kg
Certifications & Accessories	
EMC	CE-EMC (EN 55032, EN 55035, EN 50130-4), FCC (Part 15B)
Safety	UL 62368-1, CE-LVD (EN IEC 62368-1)
Environment	CE-RoHS (Directive (EU) 2015/863 amending 2011/65/EU)
Optional mounting accessories	A02 V2 pole mounting, A03 external corner bracket

* All specifications are based on manufacturer’s data. Actual values may vary depending on environmental conditions and the device. Illustrations may differ from the original. Mounting accessories are not included in the scope of delivery.

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Accessories

Part No.	Name
268450	ALLNET IP Camera, e.g., Pole Mount/Mast Mount for the ALL-CAM25xx Series
268454	ALLNET IP Kamera zbh. Corner Mount Bracket for ALL-CAM25xx Series
186548	ALLNET PoE Injector Gigabit PoE & PoE+ (15,4W/30W) / plastic
175246	ALLNET Gigabit PoE Injector / PoE & PoE+ (15.4 W/30 W) / 2.5 Gbps / Metal Housing / “ALL0489v4”
231227	ALLNET PoE Injektor Industrial MultiGigabit • PoE BT with Power-Booster (15,4W/30W/90W) • DIN • ALLNET PoE Injekt metal housing • ALL-PI2015MGPB-BT90
209904	ALLNET Switch smart managed Layer2 10 Port • PoE Budget 140W • 8x PoE at • 2x SFP • 19" • Fanless • ALL-SG8310v2PM
221184	ALLNET Switch full managed Layer2+ 18 Port • 16x GbE • PoE Budget 280W • 16x PoE at • 2x SFP • 19" • Fanless • JSON API • ALL-SG8618PM
223949	ALLNET Switch full managed Layer2+ 10 Port • 8x GbE • PoE Budget 130W • 8x PoE at • 2x SFP • 19" • Fanless • JSON API • ALL-SG8610PMJ
223952	ALLNET Switch full managed Layer2+ 16 Port • 12x GbE • PoE Budget 130W • 8x PoE at • 4x Giga LAN • 4x SFP+ • 19" • ALL-SG8616PMJ-10G
232240	ALLNET Switch full managed Layer2+ 12 Port • 8x GbE • PoE Budget 300W • 8x PoE at • 4x SFP • 10" & 19" • Fanless • JSON API • ALL-SG8612PMJ
124355	Networkoptix IP Nx-Professional Videomanagement Software 1 Kanal
221116	Networkoptix IP Recorder ARM Linux for 2.5" HDD/SSD NX Server Pre-installed max. 8~10 cameras
221118	Networkoptix IP Recorder ARM Linux for 3.5" HDD/SSD NX Server Pre-installed max. 8~16 cameras
253794	Networkoptix IP Recorder X86 Intel N305 incl. Win11 PRO for 2x3.5" HDD/SSD max. 20 cameras
250268	ALLNET Mini PC NAS-N355, Windows 11 Pro pre-installed, 16GB Ram, 256GB SSD, Wifi 7, 2x USB 3.2, 2xHD out, 4x M.2 NVME

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