ALLNET IP Bullet Camera 4 mm / Outdoor / 8 MP / IR / Low-Light / 91° / Includes Junction Box “ALL-CAM2597-LEN”

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Highlights

- 4K Ultra HD resolution (8 MP, 3840 × 2160) with 1/2.8" progressive-scan CMOS sensor
- AI video analytics with a focus on person and vehicle detection – irrelevant objects are filtered out
- Analytics functions: Entry into area, exit from area, advanced motion detection, line crossing, loitering, objects left behind and removed
- Integrated people counting (entrances and exits) via edge AI, metadata transmission to the backend
- Low-light colour imaging from 0.012 lux (F1.6), black and white at 0 lux with IR active
- 120 dB Super WDR for high-contrast scenes with strong backlighting
- Smart IR II with a range of up to 30 m, adjustable IR intensity and IR anti-reflective lens
- Weatherproof to IP67 and vandal-resistant to IK10 (metal housing)
- Efficient video compression with H.265+ / H.265 / H.264+ / H.264 / MJPEG
- Power supply via PoE (802.3af), max. 5.8 W including IR
- Local recording to microSD/SDHC/SDXC card up to 1 TB
- SIP/VoIP support for video streaming to mobile phones and video phones
- ONVIF Profiles G, S, T and M, as well as an API for integration into existing systems
- Operating temperature range from -40 °C to +60 °C
- Compact design (approx. 450 g), 3-axis mount, optional integrated connection box
- Available in white and black

Product description

The ALL-CAM2597-LEN is a robust 4K mini-bullet network camera designed for environments where image

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quality, intelligence and resilienceare equally important. With 8-megapixel resolution, AI-powered video analytics and a vandal-resistant metal housing rated to IK10, it is designed for demanding indoor and outdoor– from company premises and car parks to public areas.

The integrated AI analysis focuses on the detection of people and vehicles and reliably filters out irrelevant movements such as leaves, shadows or animals. This reduces false alarms and ensures that events such as entry into a zone, crossing a line, loitering, or objects left behind or removed are detected with precision. In addition, the camera uses edge AI to count people entering or leaving an area, and &transmits the metadata to your backend – a valuable data source for optimising operational processes and security management.

Advanced image processing algorithms ensure detailed images even in difficult lighting conditions. 120 dB Super WDR compensates for significant differences in brightness, and the camera delivers a colour image from as little as 0.012 lux. In complete darkness, Smart IR II technology takes over with a range of up to 30 m: the IRintensity is adjustable, and a special IR anti-reflective lens increases light transmission for uniform illumination.

According to the manufacturer, the power consumption of the Mini series has been reduced by 20–40 per cent. This allows for more cameras per PoE switch, reduces electricity and installation costs, and improves long-term stability thanks to lower heat generation – ideal for high-density installations and locations with a limited energy budget.

The IP67-certified housing provides reliable protection against dust and water, whilst the IK10 rating protects against mechanical impact and vandalism. Weighing approx. 450 g and measuring 64 × 64 × 160 mm, the camera is particularly compact without compromising on functionality. The easily accessible microSD card slot and reset button simplify commissioning and maintenance, whilst the 3-axismount on the rear allows for neat and flexible positioning. Optionally, an integrated connection box with a hinged design simplifies installation and provides ample space for cable connections.

Thanks to ONVIF Profiles G, S, T and M, as well as an open API, the camera can be integrated into existing video management systems. The SIP/VoIP function enables video streaming directly to mobile phones and video phones.

Technical Specifications

Camera	
Model	ALL-CAM2597-LEN
Image sensor	1/2.8” progressive scan CMOS
Min. illumination	Colour: 0.012 lux @ F1.6 B/W: 0 lux with IR
WDR	120 dB Super WDR
Lens	4 mm @ F1.6
Lens mount	M12
Field of view	H91° / D106° / V50°
Shutter speed	1/100,000 s – 1 s
Day/Night mode	Day / Night / Auto / Custom / Schedule
IR range	up to 30 m (Smart IR II)

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Signal-to-noise ratio	> 55 dB
Video	
Max. resolution	3840 × 2160 (8 MP / 4K)
Main stream	60 Hz/50 Hz: 30 fps @ (3840×2160, 3072×2048, 2592×1944, 2592×1520, 2048×1536, 1920×1080, 1280×960, 1280×720, 704×576)
Second stream	60 Hz: 30 fps / 50 Hz: 25 fps @ (704×576, 640×480, 640×360, 352×288)
Third stream	60 Hz: 30 fps / 50 Hz: 25 fps @ (1280×720, 704×576, 640×480, 640×360, 352×288)
Video compression	H.265+ / H.265 (HEVC) / H.264+ / H.264 / MJPEG
Bitrate	16 kbps – 16 Mbps (CBR/VBR adjustable)
Image	
Privacy zones	up to 4 areas
ROI	up to 8 areas
Image settings	Saturation / Brightness / Contrast / Sharpness
Advanced functions	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP address filter, AGC, Anti-Flicker, Corridor mode, Deblur
Interfaces & Network	
Ethernet	1 × RJ45, 10/100 Mbit/s
Network storage	NAS (NFS, SMB/CIFS), ANR
Protocols	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, UPnP, Bonjour, SIP, SNMP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, TLS 1.2
Intelligent Analysis & Events	
Video Analysis	Entry into area, exit from area, advanced motion detection, line crossing, loitering, abandoned object, removed object
People counting & reporting	Counting people entering and leaving
Exception events	Motion detection, tamper detection, network interruption, IP address filter, recording error, SD card full, SD card not initialised, SD card error, no SD card
Event actions	FTP upload, SMTP upload, SD card recording, snapshot, SIP call, HTTP notification, etc.
System	
Local storage	microSD/SDHC/SDXC up to 1 TB
SIP/VoIP	Yes, Voice & Video over IP
System compatibility	ONVIF Profiles G, S, T, M; API

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General	
Operating temperature	–40 °C to +60 °C
Humidity	0–90 % (non-condensing)
Power supply	PoE (IEEE 802.3af)
Power consumption	max. 4.2 W; max. 5.8 W (with IR)
Protection rating	IP67
Housing	Vandal-proof metal housing, IK10
Weight	approx. 450 g (cable version) / approx. 610 g (with junction box)
Dimensions	64 × 64 × 160 mm (cable version) / 97 × 74 × 180 mm (with connection box)
Colours	White, Black

All information is based on the manufacturer's specifications. Subject to technical changes and errors. Illustrations may differ from the original.

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
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
209904	ALLNET Switch smart managed Layer2 10 Port • PoE Budget 140W • 8x PoE at • 2x SFP • 19" • Fanless • ALL-SG8310v2PM
223949	ALLNET Switch full managed Layer2+ 10 Port • 8x GbE • PoE Budget 130W • 8x PoE at • 2x SFP • 19" • Fanless • JSON API • ALL-SG8610PMJ

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