ALLNET IP PTZ Camera / Outdoor / 5MP / IR / IP66 / 25x optical zoom / Motion tracking, includes “ALL-CAM2598-LEP” wall mount

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Highlights

- **5-megapixel resolution** (2592 × 1944) with a 1/2.8" progressive-scan CMOS sensor
- **25x optical zoom** (4.8–120 mm) plus 16x digital zoom with autofocus
- **AI-powered PTZ auto-tracking:** automatic tracking of people and vehicles with zoom following the subject
- **360° continuous pan** at up to 250°/s, tilt -5° to 90° with auto-flip
- **300 presets, 8 patrols, 4 patterns** as well as auto-scan, 3D positioning and PTZ limits
- **Smart IR II with a range of up to 200 m** for night-time recording in complete darkness
- **High light sensitivity:** colour image from 0.008 lux (F1.5), 0 lux with IR
- **120 dB Super WDR** for balanced images in strong backlighting
- **AI video analysis (VCA 2.0):** Intrusion detection, line crossing, area entry/exit, loitering, abandoned and removed objects
- **Face recognition with attributes** (age, gender, glasses, mask, cap) including privacy mode with automatic pixelation
- **Object counting** for people and vehicles, as well as attribute extraction for up to 50 targets simultaneously
- **Flexible power supply** via PoE (IEEE 802.3at) or 24 V AC/DC
- **Robust for outdoor use:** IP66, integrated heater, operation from -40 °C to +60 °C, IK10 optional
- **Local recording** to a microSD card up to 1 TB, compatible with ONVIF Profiles G, M, S and T
- **NDAA-compliant**

Product description

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The ALL-CAM2598-LEP is a high-performance 5-megapixel speed dome network camera for professional surveillance of large areasareas. These include company premises, car parks, industrial sites, logistics centres and public spaces. The 25x optical zoom lens with a 4,8 to 120 mm focal length captures both wide-angle overviews and details at a great distance. Image sharpness is maintained across the entire zoom range.

At the heart of the camera is AI-powered analysis. Deep learning algorithms reliably distinguish between people, vehicles and irrelevant movements such as leaves, animals or changes in light. This significantly reduces false alarms. If the camera detects a relevant target, it can automatically track it using intelligent PTZ auto-tracking. Pan, tilt and zoom are dynamically adjusted to the distance of the object. In addition, eight intelligent VCA modes, facial recognition with attribute analysis and object counting with statistical reports are available.

The precise PTZ mechanism pans continuously through 360° at up to 250°/s and tilts from -5° to 90°. Up to 300 preset positions, 8 patrol routes (each with up to 48 presets) and 4 patterns enable seamless automated surveillance. Proportional zoom control, 3D positioning and position storage in the event of a power cut simplify day-to-day operation.

Even in difficult lighting conditions, the camera delivers impressive results. Its high light sensitivity enablescolour images from as low as 0.008 lux. In complete darkness, Smart IR II ensures clear night-time images at distances of up to 200 m by automatically adjusting the long-range and close-range lighting to suit the scene. The 120 dB Super WDR balances out strong light-dark contrasts, such as at driveways or in backlit situations. Features such as Defog, BLC, HLC and 3D noise reduction further enhance image quality.

With H.265+ and H.264+ video compression, bandwidth and storage requirements are reducedwithout compromising image quality. The robust housing is weatherproof to IP66, features an integrated heater and operates reliably from -40 °C to +60 °C. A 6 kV surge protector is also included. Power is supplied either via PoE (802.3at) or via 24 V AC/DC. Thanks to ONVIF support (Profiles G, M, S, T), the camera can be easily integrated into existing video management systems and NVRs. Alarm inputs/outputs, audio inputs/outputs, RS485 and SIP/VoIP support round off the professional feature set.

Technical Specifications

Camera	
Model	ALL-CAM2598-LEP
Image sensor	1/2.8" progressive scan CMOS
Minimum illumination	Colour: 0.008 lux @ F1.5; B/W: 0 lux with IR
WDR	120 dB Super WDR
Shutter speed	1/100,000 s – 1 s
DORI range*	Detection: 114–2,490 m; Observation: 45–979 m; Recognition: 22.5–490 m; Identification: 11–245 m
Digital zoom	16x
Day/Night mode	Day / Night / Auto / Custom / Schedule
Signal-to-noise ratio	> 55 dB
Lens	
Focal length	4.8–120 mm, 25x optical zoom

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Zoom speed	approx. 6 s (wide-angle – telephoto)
Field of view	H: 57° – 2.8°; D: 69.8° – 3.2°; V: 43.8° – 1.5°
Focus control	Auto / Semi-automatic / Manual
Minimum working distance	100 mm (wide-angle) / 1,500 mm (telephoto)
Aperture	F1.5 – F3.5, automatic aperture control
PTZ	
Pan range / speed	360° continuous; manual 0.1°–250°/s, preset 250°/s
Tilt range / speed	-5° to 90° (auto-flip); manual 0.1°–160°/s, preset 160°/s
Presets / Patrols / Patterns	300 / 8 (up to 48 presets each) / 4
Additional PTZ functions	Proportional zoom, auto-tracking, position memory in the event of a power cut, auto-scan, auto-home, preset freezing, 3D positioning, PTZ limits, home position
IR	
IR range	up to 200 m (Smart IR II)
IR angle	Auto / Manual
Video & Image	
Max. resolution	2592 × 1944 (5 MP)
Main stream	60 Hz: 30 fps @ 2592×1944, 2592 × 1520; 45 fps @ 2048 × 1536; 60 fps @ 1920 × 1080, 1280 × 960, 1280×720 50 Hz: 25 fps @ 2592×1944, 2592×1520; 45 fps @ 2048×1536; 50 fps @ 1920×1080, 1280×960, 1280×720
Second stream	60 Hz: 30 fps / 50 Hz: 25 fps @ 704×576, 640×480, 640×360, 352×288, 320×240
Third stream	60 Hz: 30 fps / 50 Hz: 25 fps @ 2048×1536, 1920×1080, 1600×1200, 1280×720, 704×576, 640×480, 640×360, 320×240
Video compression	H.265+ / H.265 (HEVC) / H.264+ / H.264 / MJPEG
Video bitrate	16 Kbit/s – 16 Mbit/s (CBR/VBR adjustable)
Privacy zone masking	up to 8 areas (mask or mosaic)
ROI	up to 8 areas
Image settings	Brightness, contrast, saturation, sharpness
Image enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, Corridor mode, LDC
Intelligent Analysis	
Video Analysis (VCA 2.0)	Intrusion detection, area entry, area exit, advanced motion detection, line crossing, loitering, abandoned object, removed object

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Attribute extraction	up to 50 targets simultaneously; people: colour of outer/underwear, hat; vehicle types: bicycle, car, motorbike, bus, lorry, e-scooter
Face recognition	Detection using real-time snapshots; attributes: age, gender, glasses, mask, cap; privacy mode with automatic pixelation
Object counting	Lane counting (optionally people and vehicles), regional people counting in up to 4 areas, with reports
Events	
Basic events	Motion detection, tamper detection, external input/output, audio alarm, etc.
Exceptions	Network interruption, IP address filter, recording error, SD card full / not initialised / error / missing, watermark, etc.
Event actions	FTP upload, snapshot, SMTP upload, SD card recording, SIP call, audio playback, PTZ movement, HTTP notification, etc.
Interfaces & Network	
Ethernet	1 × RJ45, 10/100 Mbit/s
Audio input/output	1 / 1
Alarm Input/Output	4 / 2
RS485	Yes
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, SNMP, UPnP, Bonjour, LLDP, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, TLS 1.2
System compatibility	ONVIF Profiles G, M, S, T; API
SIP/VoIP	Yes, voice and video over IP
Audio	
Audio compression	G.711 / AAC / G.722 / G.726
Sampling rate	8 / 16 / 32 / 44.1 / 48 kHz
Audio bitrate	16–256 kbit/s
General	
Local storage	microSD/SDHC/SDXC up to 1 TB
Power supply	PoE (IEEE 802.3at) / 24 V AC / 24 V DC, 3 A ±10 %
Power consumption	Min.: 10.5 W (24 V AC/DC), 12.4 W (PoE) Max.: 25 W (24 V AC/DC), 27.7 W (PoE)
Operating conditions	–40 °C to +60 °C, 0–95 % relative humidity (non-condensing)

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Protection rating	IP66; IK10 (optional)
Heating	Yes
Surge protection	6 kV
Dimensions	– 205 mm × 310 mm
Weight	4 kg
Certifications	CE-EMC (EN 55032, EN 55035), FCC (Part 15B), UL 62368-1, CE-LVD (EN IEC 62368-1), CE-RoHS (Directive (EU) 2015/863)
NDAA	compliant

* DORI values are theoretical guidelines. The actualactual distances depend on the environment, lighting and installation. IK10 vandal protection is optional. Subject to technical changes and errors.

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