



IP Camera with AI Video Analytics



Model	ZN8-80B8F28DL-J0A
Image sensor	1/1.8" STARVIS™ CMOS, 8 MP
Min. illumination (AGC ON)	Color: 0.005 Lux @ F1.6 (AGC ON) B/W: 0.001 Lux @ F1.6; 0 Lux (IR ON)
Day/Night mode	Automatic IR-Cut
Electronic shutter	1/5 – 1/20 000 s
Iris	Fixed Iris, F1.6
WDR mode	True WDR (120 dB)
Noise reduction	2D / 3D-DNR
Lens	Fixed 2.8 mm Field of view: H: 110.5° / V: 56.5°
IR illuminator	IR 850 nm, range up to 40 m; Auto/Manual
Angle adjustment	Pan: 0° ... 360° / Tilt: 0° ... 90° / Rotation: 0° ... 360°
Video compression	H.265 / H.264 / MJPEG / Smart Encode
Bitrate (CBR/VBR)	Stream 1: 200 Kbps – 16 Mbps Stream 2: 100 Kbps – 6 Mbps Stream 3: 100 Kbps – 3 Mbps
Resolution and frame rate	S1: 3840×2160, 2592×1944/1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 S2: D1/VGA/CIF; S3: VGA/CIF/QVGA; max. 25/30 fps
Image settings	Brightness, sharpness, contrast, saturation
Security	Digest, protection brute-force, Secure Boot
Digital functions	HLC / BLC / DEFOG / ROI / True WDR
Corridor mode	Yes (9:16)
Privacy masks	4 areas
Events	GENSTAR IVS 2.0 analytics Face, human and vehicle detection and classification
Network protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, 802.1X, SNMP, Multicast
RTSP support	Standard RFC 2326 (VLC Player / QuickTime)
Compatibility	ONVIF (Profile S/T/G/M), SDK, CGI

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Key Features:

- **Smart Encode** – dynamically adaptive stream and codec parameters, reducing bandwidth and archive storage requirements.
- **Image sensor** – 1/1.8" STARVIS™ CMOS, 8 MP (3840×2160) at 25/30 fps.
- **ROI** – supports up to 8 rectangular regions of interest while maintaining maximum image quality in selected areas.
- **SMART-IR** – automatic IR illuminator intensity adjustment to reduce overexposure of objects close to the camera.
- **True WDR** – wide dynamic range of 120 dB, 3D DNR, Defog, HLC and BLC.
- **Operating schedules** – image mode can be configured according to time or Day/Night status.
- **Cybersecurity** – Secure Boot, signed and encrypted firmware, IEEE 802.1X, HTTPS, WSS, SRTP and brute-force protection.
- **Corridor mode** – adjusts image orientation for scenes with a significant height-to-width disproportion.
- **GENSTAR IVS 2.0** – face, human and vehicle detection, attribute analysis and advanced AI analytics rules.
- **NDA Compliance** – the device complies with the U.S. Congress "National Defense Authorization Act".

Technical Specifications

Ethernet interface	10/100 Base-T, RJ45
Audio	1x In / 1x Out
Alarm	1x In / 1x Out
Analog output	N/A
Operating temperature	-40°C ... +60°C
Operating humidity	<95% RH
Reset button	Yes
SD card support	MicroSD card slot max. 1TB
Power supply / consumption	12 VDC (-10%...+25%) / PoE (802.3af) max. 8.5 W (PoE)
Dimensions / weight	187.6 × 64 × 64 mm / approx. 0.62 kg
Protection class	CE / FCC / IP67

Network and Cybersecurity

Network and access	
Max. concurrent streams	10 concurrent channels
Users / levels	32+ users; Administrator, Operator, Media user
Web browsers	IE11 or earlier, Chrome, Firefox, Microsoft Edge
Security / Cybersecurity	
OS / firmware protection	Encrypted firmware, Secure Boot, signed firmware
User authentication	Digest authentication; brute-force attack protection
Network authentication	IEEE 802.1X (EAP-TLS)
Secure communication	HTTPS, WSS (WebSocket Secure), SRTP
Access control	IP-based access control; automatic logout
Data protection	Credential encryption
Audit	Access, system and event logs
Secure storage	SD card partition encryption (AES-256), Secure Element
Supply chain security	SBOM

Built-in GENSTAR IVS 2.0 Video Analytics Functions (AI Analytics)

AI Multi-Target	Face, human and vehicle detection and capture; attribute analysis; display modes: Full Frame, Four-Corner Frame and Mosaic
Human attributes	Gender, age, glasses, headwear, bag, upper/lower clothing color and style, reflective vest
Vehicle attributes	Type, color, brand and vehicle orientation
Intelligent analytics	Intrusion, SMD, single and double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection and fight detection
Additional functions	People counting, accurate human/vehicle target classification and alarm triggering for specified object types

OODPCVS

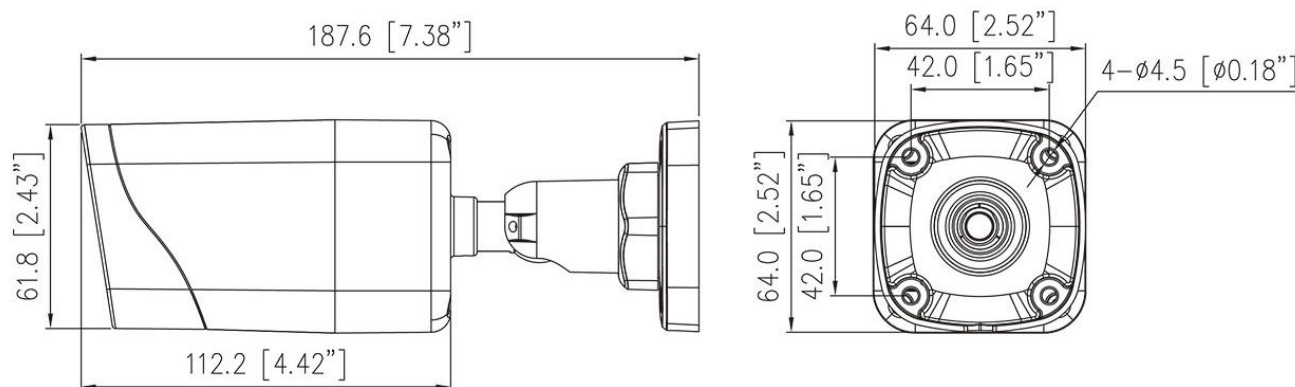
OODPCVS Distance (calculated according to pixel density thresholds per IEC/EN 62676-4:2025)						
General overview	Object outline	Object distinction	Behavior perception	Object characterization	Verification	Detailed analysis
112.1 m	56.1 m	28.0 m	17.9 m	9.0 m	4.5 m	1.5 m

Built-in GENSTAR IVS 2.0 Video Analytics Functions (AI Analytics)



DORI Distance (EN 62676-4)				
Lens	Detection	Observation	Recognition	Identification
2.8 mm	89.7 m	35.9 m	17.9 m	9 m

Overall dimensions



Mounting accessories:



*ZA8-CBK627B only in combination with ZA8-JBMP-2 adapter

Compatibility:

