



IP camera with video analytics for face/person/vehicle detection



ZN8V-71E5F28DT-J4



Key features:

- **Smart Encode** - dynamically adapts network stream and codec parameters to maintain recording continuity while minimizing storage requirements.
- Built-in IR illumination up to 40 m and warm light up to 30 m.
- **Active deterrence** - supports red and blue alarm lights + speaker to warn intruders.
- **ROI** (Region of Interest, up to 8 zones) - based on user-defined ROI zones, the camera reduces image quality outside these zones to lower bandwidth usage (bitrate), while maintaining maximum image quality within the ROI zones.
- Supports **face/person/vehicle detection**
- Supports **P2P cloud connectivity**
- **SMART-IR** - automatically adjusts IR LED intensity to prevent overexposure of objects (e.g. a person's face) near the camera.
- **True-WDR** - digital wide dynamic range function.
- **Image sensor schedules** - allow sensor operation to be configured by time or Day/Night mode.
- **NDA compliance** - the device complies with the U.S. National Defense Authorization Act.
- **Built-in microphone** for audio communication.
- **Built-in speaker**

Model	ZN8V-71E5F28DT-J4
Image sensor	1/2.7" Progressive Scan CMOS, 5MP
Sensitivity (AGC ON)	Color: 0.01 lux @ F1.6 / B/W: 0 lux with IR
Day/Night mode	Automatic IR-cut filter
Electronic shutter	Auto/Manual, 1/5 to 1/20,000 s
Iris	Fixed Iris
WDR mode	True WDR
Noise reduction	2D / 3D-DNR
Lens	2.8 mm, H: 110.9°, V: 60°
Illuminators	IR range up to 40 m, white-light range up to 30 m
AV compression	H.265 H.264 MJPEG G.711U G.711A RAW
Bitrate (CBR/VBR)	Stream 1: 200 Kbps - 12 Mbit Stream 2: 100 Kbps - 6 Mbit Stream 3: 100 Kbps - 3 Mbit
Resolution and frame rate	2880x1620, 2304x1296, 1920x1080, 1280x720 (25/30 fps) D1, VGA, CIF (25/30 fps) VGA, CIF, QVGA (25/30 fps)
Image settings	Rotation, saturation, brightness, contrast, sharpness
Digital functions	HLC / BLC / ROI / DEFOG
Privacy masks	4 zones
Motion detection	22x18 grid
IVS events	Intrusion, line crossing, double-line crossing, loitering, wrong direction, illegal parking and intelligent motion detection. Supports alarm triggering by specified target types (people and vehicles).
Network protocols	TCP, UDP, IPv4/6, HTTP/S, DHCP, FTP, SMTP, DNS, DDNS, NTP, RTP, RTSP, RTCP, Multicast Unicast, uPNP, WS-Discovery, SSL, PPPoE
RTSP support	Standard RFC2326 (VLC Player / QuickTime)
Security	User authorization, hardware watchdog
Compatibility	ONVIF (Profile S/T/G/M), SDK, CGI
Ethernet interface	10/100 Base-T, RJ45
Audio	N/A
Audio codec	G.711 (64kb/s), 128kbps (RAW_PCM)
Alarm	N/A

Technical specifications	
Reset button	Yes
SD card support	MicroSD card slot, max. 1 TB
Microphone	Built-in microphone
Speaker	Built-in speaker
Power supply	12 VDC (-15% to +25%)/PoE (802.3af)
Power draw	2 W, max. 10 W (lights + speaker)
Max. humidity	<90%
Certifications	CE / EN / FCC / IP66
Size / weight	111 × 100.8 mm / 0.43 g
Operating temp.	-30°C ~ +60°C
Housing	Aluminum alloy

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CBC Poland
CBC Italy
CBC Spain
CBC Russia
CBC India

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Security	
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 address-based access control, automatic logout
Data protection	Credential encryption
Secure data storage	AES-256 encryption of the SD card partition and a hardware Secure Element
Audit	Access / system / event log management
Supply chain security	SBOM

Built-in GenSTAR IVS 2.0 video analytics (AI analytics)



AI multi-object



Intrusion



Intelligent detection



Line crossing



Double line



Group loitering



Wrong direction



Illegal parking



People counting

DORI Distance						
Lens		Detection	Observation	Recognition	Identification	
2.8 mm		82 m	32.8 m	16.4 m	7.2 m	
OODPCVS Distance (OODPCVS distances calculated from pixel-density thresholds per IEC/EN 62676-4:2025.)						
Overview	Object outline	Object differentiation	Behavior perception	Object characteristics	Verification	Detailed analysis
80 m	40 m	20 m	12.8 m	6.4 m	3.2 m	1.1 m

Mounting adapters:



ZA8-CBK646M

Compatibility:



GenSTAR NVR



CORTROL VMS



NDAA compliance

External dimensions:

