



IP camera with video analytics for detection of faces/people/vehicles



ZN8-71DT5F28NL

Key Features:



- **Smart Encode** - dynamically adaptive network stream and codec parameters to maintain recording continuity while minimizing archive storage requirements.
- **ROI (Region of Interest, up to 8 areas)** - the camera maintains maximum image quality in selected areas while reducing bitrate outside these areas.
- **Multi-object detection** - detection and capture of faces, people and vehicles.
- **GENSTAR IVS 2.0** - intrusion, smart motion detection, single and double line crossing, loitering, wrong-way detection, illegal parking and people counting.
- **SMART-IR** - automatic adjustment of IR illumination intensity; range up to 40 m.
- **True-WDR 120 dB** - improves detail visibility in high-contrast scenes.
- **Local Storage** - built-in microSD card slot supporting cards up to 1 TB.
- **Corridor Mode** - adjusts image orientation for narrow, vertically oriented scenes.
- **NDA Compliance** - device compliant with the U.S. "National Defense Authorization Act".
- **Audio and alarm interfaces** - 1 audio input / 1 audio output and 1 alarm input / 1 alarm output.

Model	ZN8-71DT5F28NL
Image Sensor	1/2.7" Progressive Scan CMOS, 5MP
Min. Illumination (AGC ON)	Color: 0.01 lux @ F1.6; B/W: 0.005 lux; IR: 0 lux
Day/Night	Automatic IR-Cut
Electronic Shutter	1/5 - 1/20 000 s
Iris	Fixed Iris
WDR Mode	True WDR (120 dB)
Noise Reduction	2D / 3D DNR
Lens	Fixed 2.8 mm, F2.0; H: 105.5°, V: 56.3°
IR Illuminator	IR 850 nm, up to 40 m, Auto / Manual
AV Compression	H.265 H.264 MJPEG G.711U G.711A RAW
Bitrate (CBR/VBR)	Stream 1: 200 Kbps - 12 Mbps
	Stream 2: 100 Kbps - 6 Mbps
	Stream 3: 100 Kbps - 3 Mbps
Resolution and Frame Rate	Stream 1: 2880×1620 / 2592×1520 / 2560×1440 / 2304×1296 / 1920×1080 / 1280×720 @25/30 fps
	Stream 2: D1, VGA, CIF (25/30 fps)
	Stream 3: VGA, CIF, QVGA (25/30 fps)
Image Settings	Brightness, sharpness, contrast, saturation
Digital Functions	HLC / BLC / Defog / WDR / Corridor Mode
Privacy Masks	4 areas
ROI	Up to 8 areas
IVS Events	Intrusion, smart motion, single/double line crossing, loitering, wrong-way detection, illegal parking, people counting; classification: human/vehicle.
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)
Security	Digest authentication, protection against brute-force
Compatibility	ONVIF (Profile S/T/G/M), SDK, CGI
Ethernet Interface	1 × RJ45 Ethernet 10/100 Mbps
Audio	1 In (3.5 mm) / 1 Out (3.5 mm)
Audio Compression	G.711 A-law, G.711 μ-law, RAW_PCM
Max. Streams	10 channels
Alarm	1 input / 1 output

Technical Specifications

Reset Button	Yes
SD Card Support	microSD up to 1 TB
Power Supply	12 VDC (-15%...+25%) / PoE 802.3af
Power Consumption	Typical 2.0 W; max. 4.5 W (IR) / PoE: 2.5-5.7 W
Max. Humidity	<95% RH, non-condensing
Certifications / Ratings	CE / FCC / IP67 / IK10
Dimensions/Weig.	Ø110 × 85.4 mm / approx. 475 g
Temperature	-30°C to +60°C
Housing	Aluminum + PC dome

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Security	
OS / Firmware Protection	Encrypted and signed firmware
User Authentication	Digest authentication, protection against brute-force
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 / event log management
Supply Chain Security	SBOM

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



AI Multi-Object



Intrusion



Smart Detection



Line Crossing



Double Line Crossing



Loitering



Wrong-way Detection



Illegal Parking



People Counting

DORI Distance						
Lens		Detection	Observation	Recognition	Identification	
2.8 mm		68 m	27.2 m	13.6 m	6.8 m	
OODPCVS Distance (OODPCVS distances calculated based on pixel density thresholds according to IEC/EN 62676-4:2025.)						
General Overview	Object Outline	Object Discrimination	Behavior Perception	Object Characterization	Verification	Detailed Analysis
85 m	42.5 m	21.3 m	13.6 m	6.8 m	3.4 m	1.1 m

Mounting Adapters:



ZA8-CBK656



ZA8-CBK627B

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

Compatibility:



GENSTAR NVR



ZA8-CBK627B



Overall Dimensions:

