



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



## ZN8-71B5F28DT-J4A



### Key features:

- **Smart Encode** - dynamically adapts network stream and codec parameters to maintain recording continuity while minimizing storage requirements.
- Built-in IR and warm-light illumination; smart illumination range up to 40 m.
- **Active deterrence** - supports **red and blue** alarm lights and a **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 compliant** with the U.S. National Defense Authorization Act.
- **Built-in microphone** for audio communication.
- **Built-in speaker**

| Model                     | ZN8-71B5F28DT-J4A                                                                                                                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                     | 1x In / 1x Out                                                                                                                                                                                           |
| Audio codec               | G.711 (64kb/s), 128Kbps (RAW_PCM)                                                                                                                                                                        |
| Alarm                     | 1x In / 1x Out                                                                                                                                                                                           |

| 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. 9.5 W (lights + speaker)  |
| Max. humidity            | <90%                                |
| Certifications           | CE / EN / FCC / IP66                |
| Size / weight            | 188.0 × 80 × 77 mm / 0.58 kg        |
| Operating temp.          | -30°C ~ +60°C                       |
| Housing                  | Aluminum alloy                      |

| 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                                                                                                 |                | 64 m                   | 25.6 m              | 12.8 m                 | 6.4 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-CBK656A**

**ZA8-CBK627B**
**Compatibility:**

**GENSTAR NVR**

**CORTROL VMS**

**NDAA compliance**

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External dimensions:

