



8MP IP Camera with AI Analytics



Model	ZN8-80B8M213D
Image Sensor	1/2.8" STARVIS™ Progressive Scan CMOS
Min. Illumination (AGC ON)	Color: 0.01 lux @ F1.6 (AGC ON) B/W: 0.005 lux @ F1.6; 0 lux with IR
Day/Night	Auto (ICR) - IR-Cut filter
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	Moto-Zoom 2.7-13.5 mm, F1.6 H: 102.7°-30.2° / V: 53.8°-16.8°
IR Illuminator	IR 850 nm, up to 60 m, Auto / Manual
Angle Adjustment	Pan: 0°-360° / Tilt: 0°-90° / Rotation: 0°-360°
Video Compression	H.265 / H.264 / MJPEG / Smart Encoding
Bit Rate (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, 2592×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 S2: D1, VGA, CIF; S3: VGA, CIF, QVGA; up to 25/30 fps
Image Settings	Brightness, Sharpness, Contrast, Saturation
Audio Compression	G.711 A-law / G.711 μ-law / RAW_PCM; 64 / 128 Kbps
Digital Functions	WDR / HLC / BLC / Defog / ROI (8 areas)
Corridor Mode	Yes
Privacy Masking	4 areas
Events	IVS, motion detection, alarm input, network/disk alarm Day/Night switching, abnormal sound detection
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 / Web Support	RFC2326; Chrome, Firefox, Microsoft Edge
Compatibility	ONVIF (Profile S/T/G/M), SDK, CGI

ZN8-80B8M213D

Key Features:

- **Smart Encode** - dynamically adapts network stream and codec parameters to ensure continuous recording while minimizing archive storage requirements.
- Lens type: **Moto-Zoom** with 5x optical zoom.
- **ROI** (Region of Interest) - based on user-defined ROI zones, the camera reduces image quality outside the zones to reduce bandwidth usage (bitrate), while maintaining maximum image quality within the ROI zones.
- Built-in video analytics **GENSTAR IVS 2.0 AI-based** (virtual perimeter line, protected zones), supported by GENSTAR series NVRs and GENSTAR VMS.
- Supports **face / human / vehicle** detection.
- **P2P cloud** support
- **SMART-IR** - the intensity of IR light emitted by the IR LEDs is automatically adjusted to prevent overexposure of objects (e.g. faces) located close to the camera.
- **True-WDR** - digital wide dynamic range function.
- **Image sensor schedules** - image sensor operation can be configured according to time or Day/Night mode.
- **IP address filter** - enables creation of blacklists and whitelists for access to the camera web interface based on IP address.
- **Corridor mode** - adjusts the field of view to scenes with a significant disproportion between the height and width of the monitored area.
- **NDAA compliant** - the device complies with the U.S. Congress act entitled "National Defense Authorization Act".

Technical Specifications

Ethernet Interface	1 × Ethernet 10/100 Base-T, RJ45
Audio	1 × IN / 1 × OUT
Alarm	1 × IN / 1 × OUT
Housing	Aluminum alloy
Operating Temperature	-40°C ... +55°C
Operating Humidity	<95% RH
Reset Button	Yes
SD Card Support	Built-in microSD slot, up to 256GB
Power Supply / Consumption	12 VDC (-15% to +25%) / PoE (802.3af) Max. 9.5 W
Dimensions / Weight	232 × 80 × 80 mm / approx. 0.81 kg
Certifications / Rating	CE-EMC / FCC / IP67

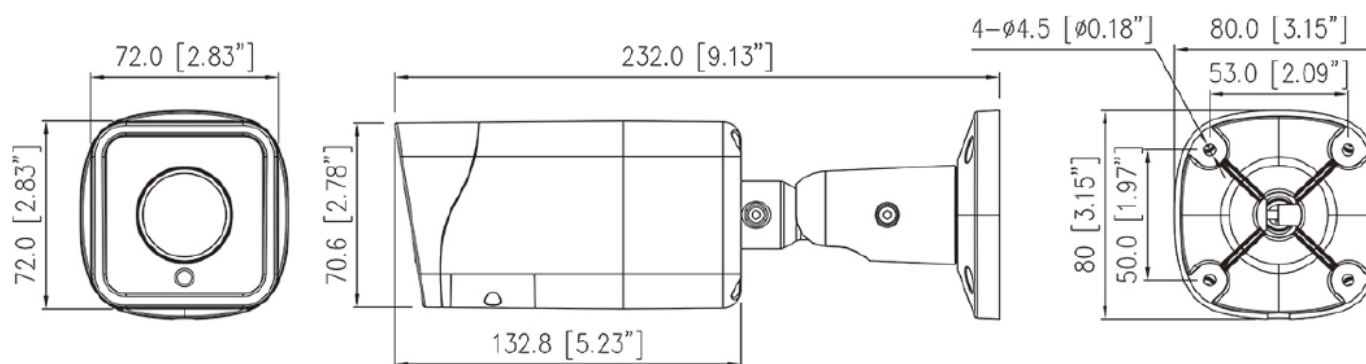
Security	
OS / Firmware Protection	Encrypted firmware, signed firmware
User Authentication	Digest authentication, brute-force attack protection
Network Authentication	IEEE 802.1X (EAP-TLS)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, auto logout
Data Protection	Credential encryption
Secure Storage	SD card partition encryption with AES-256 and hardware Secure Element
Audit	Access / system / event log management
Supply Chain Security	SBOM

Network and Access	
Max. Concurrent Streams	10 concurrent channels
Users / Levels	32+ users; Administrator, Operator, Media User
Web Browsers	IE11, Chrome, Firefox, Microsoft Edge

Built-in GENSTAR IVS 2.0 Video Analytics (AI Analytics)	
AI Multi-Target	Face, human and vehicle detection & capture; human/vehicle classification; frame modes: Full Frame, Four-Corner Frame, Mosaic.
Human Attributes	Gender, age, glasses, headwear, bag, upper/lower clothing color and style, reflective vest.
Vehicle Attributes	Type, color, brand, orientation.
Intelligent Analytics	Intrusion, smart motion detection, single/double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection and fight detection.
People Counting	Supported.
Event Actions	Alarm recording, SMTP, FTP, alarm output, snapshot, audible alarm output.

DORI Distance (EN 62676-4)							
Lens	Detection	Observation	Recognition	Identification			
2.7 mm	88 m	35.2 m	17.6 m	8.8 m			
13.5 mm	280 m	112 m	56 m	28 m			
OODPCVS Distance							
Lens	General View	Object Outline	Object Distinction	Behavior Perception	Object Characterization	Verification	Detailed Analysis
2.7 - 13.5 mm	110-350 m	55-175 m	27.5-87.5 m	17.6-56 m	8.8-28 m	4.4-14 m	1.5-4.7 m

External Dimensions:



Mounting Accessories:



ZA8-JBMP-2 (C hole)



ZA8-CBK627B*

Compatibility:



GENSTAR NVR



CORTROL VMS



NDA Compliance