



4MP Bullet IP Camera with AI Video Analytics



ZN8-80BT4M550DL-A



Key Features:

- **Smart Encode** - dynamically adaptive stream and codec parameters that reduce bandwidth and archive storage requirements.
- **Image sensor** - 1/2.8" STARVIS™ CMOS, 4 MP (2592×1520) at 50/60 fps.
- **Lens** - motorized zoom 5–50 mm, F2.0 with 10× optical zoom.
- **ROI** - supports up to 8 rectangular regions of interest while maintaining maximum image quality in selected areas.
- **SMART-IR** - automatic IR illuminator intensity control with a range of up to 120 m.
- **True WDR** - wide dynamic range of 120 dB, 3D DNR, Defog, HLC and BLC.
- **Cybersecurity** - signed and encrypted firmware, IEEE 802.1X, HTTPS, WSS, SRTP, AES-256 and protection against brute-force attacks.
- **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** - device compliant with the U.S. National Defense Authorization Act.

Model	ZN8-80BT4M550DL-A
Image Sensor	1/2.8" STARVIS™ CMOS, 4 MP
Min. Illumination (AGC ON)	Color: 0.01 Lux @ F1.6 (AGC ON) B/W: 0.005 Lux @ F1.6; 0 Lux (IR ON)
Day/Night	Automatic IR-Cut Filter
Electronic Shutter	1/5 – 1/100,000 s
Iris	Fixed Iris, F2.0
WDR Mode	True WDR (120 dB)
Noise Reduction	2D / 3D-DNR
Lens	Motorized Zoom AF 5–50 mm Field of View: H 46°–7.6° / V 26.7°–4.5°
IR Illuminator	IR 850 nm, range up to 120 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 – 12 Mbps Stream 2: 100 Kbps – 6 Mbps Stream 3: 100 Kbps – 3 Mbps
Resolution & Frame Rate	S1: 2592×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 S2: D1/VGA/640×360/CIF/QVGA; S3: VGA/CIF/QVGA; up to 50/60 fps
Image Settings	Brightness, sharpness, contrast, saturation
Security	Digest, brute-force protection, encrypted and signed firmware
Digital Functions	HLC / BLC / DEFOG / ROI / True WDR
Corridor Mode	Yes (9:16)
Privacy Masks	4 zones
Events	GENSTAR IVS 2.0 Analytics Face, human and vehicle detection, classification and attributes
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

Technical Specifications

Ethernet Interface	10/100 Base-T, RJ45
Audio	1× IN / 1× OUT
Alarm	1× IN / 1× OUT
Analog Output	N/A
Operating Temperature	-40°C ... +60°C
Operating Humidity	<95% RH, non-condensing
Reset Button	Yes
SD Card Support	microSD slot, max. 1 TB
Power Supply / Consumption	12 VDC (-10%...+25%) / PoE (802.3af) max. 13 W (11 W with IR)
Dimensions / Weight	Ø 110.3 × 365.33 mm / approx. 1.45 kg
Certifications / Protection	CE / FCC / IP67 / IK10

Network & Cybersecurity

Network & 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	Encrypted firmware, signed firmware
User Authentication	Digest authentication; protection against brute-force attacks
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 data encryption using AES-256
Supply Chain Security	SBOM

Built-in GENSTAR IVS 2.0 Video Analytics (AI)

AI Multi-Target	Face, human and vehicle detection & 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

ODPCVS

ODPCVS Distance (calculated using pixel density thresholds according to IEC/EN 62676-4:2025)						
General Overview	Object Outline	Object Distinction	Behavior Perception	Object Characterization	Verification	Detailed Analysis
175–1050 m	87.5–525 m	43.8–262.5 m	28–168 m	14–84 m	7–42 m	2.3–14 m

Built-in GENSTAR IVS 2.0 Video Analytics (AI)

AI Multi-Object

Intrusion

Smart Motion Detection

Line Crossing

Double Line

Loitering

Wrong Way

Illegal Parking

People Counting

Area People Limit

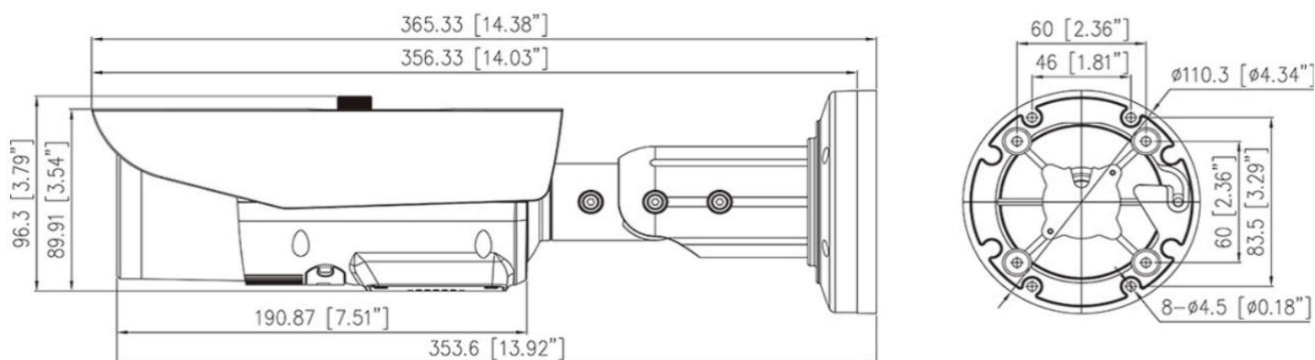
Running Detection

Fall Detection

Fight Detection

Perimeter Detection

DORI Distance (EN 62676-4)				
Lens	Detect	Observe	Recognize	Identify
5–50 mm	140–840 m	56–336 m	28–168 m	14–84 m

Dimensions

Mounting Accessories:

ZA8-JBMP-2

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

Compatibility:


CBC Tokyo HQ
 CBC Osaka
 CBC Nagoya
 CBC Fukuoka
 CBC Mishima

CBC New Jersey
 CBC Los Angeles
 CBC Mexico
 CBC Beijing
 CBC Dongguan

CBC Shanghai
 CBC Hongkong
 CBC Singapore
 CBC Taiwan
 CBC Bangladesh

CBC Guangzhou
 CBC Indonesia
 CBC Thailand
 CBC UK
 CBC Germany

CBC Poland
 CBC Italy
 CBC Spain
 CBC Russia
 CBC India

CBC Poland sp. z o.o.

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