



GENSTAR Series True WDR IP Camera



ZN8-80B5M213D

Key features:

- **Smart Encode** - dynamically adapts network stream and codec parameters to maintain continuous recording while minimizing archive storage requirements.
- Lens type **MFZ with 5x optical zoom**.
- **ROI** (Region of Interest) - based on user-defined ROI zones, the camera reduces image quality outside these areas to lower bandwidth usage (bitrate), while maintaining maximum image quality within ROI zones.
- Built-in video analytics functions **GENSTAR IVS 2.0 based on AI** (virtual perimeter line, protected zones) supported by recorders GENSTAR and GENSTAR VMS
- Supports detection of **faces/persons/vehicles**
- **SMART-IR** - the IR light intensity emitted by the IR LEDs is automatically adjusted to prevent overexposure of objects (e.g. a person's face) close to the camera.
- **True-WDR** - digital wide dynamic range function.
- **Image sensor operating schedules** - image sensor operation can be configured according to time or Day/Night mode.
- **IP address filter** - enables blacklists and whitelists for access to the camera web interface based on IP address.
- **Corridor mode** - adapts the field of view to scenes with a significant disproportion between the height and width of the monitored area

Model	ZN8-80B5M213D
Image sensor	1/2.8" Progressive Scan CMOS
Sensitivity (AGC ON)	Color: 0.005lux @ F1.6/ IR ON: 0 lux
Day/Night mode	Automatic IR-cut filter
Shutter	Auto/Manual, 1/5 to 1/100,000s
Iris	F-Iris
WDR mode	True WDR
Noise reduction	2D / 3D-DNR
Lens	MFZ with AF: 2.7 – 13.5mm F1.6 angle: H 98.3° to 27°, V: 71.3° to 20.3°
IR illuminator	IR LED, range up to 60 m
AV compression	H.265 H.264 MJPEG G.711U PCM
Bitrate (CBR / VBR)	Stream 1: 100 Kbps – 16 Mbit Streams 2 and 3: 10 Kbps – 6 Mbit
Resolution & frame rate (PAL)	2560x1920 (25 fps) 2304x1296 and 1920x1080 (25 fps)
Video streams	Stream 1: max. 2560x1920 (5MP) Stream 2: max. 720x576 (D1) Stream 3: max. 640x480 (VGA)
Image settings	Rotation, saturation, brightness, contrast, sharpness
Digital functions	HLC / BLC / ROI / DIS
Corridor mode	N/A
Privacy masks	8 zones
Events	Motion detection (22x18 grid), Alarm IN, Audio detection, D/N switching
Network protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, IEEE 802.1X, SNMP, Multicast
RTSP / Web support	RFC2326; IE11, Chrome, Firefox, Microsoft Edge
Security	IP filtering, encrypted HTTPS, unauthorized-login lockout IEEE 802.1X
Compatibility	ONVIF (Profile S/T/G/M), SDK, CGI
Ethernet interface	1 × Ethernet 10/100 Base-T, RJ45
Audio	1 × IN 1 × OUT
Alarm	1 × IN 1 × OUT
Users / levels	Up to 10; Administrator, Operator, Media user

Technical specifications:

Reset button	Yes
SD card support	MicroSD slot up to 1 TB
Power supply	12VDC / PoE (802.3af)
Power consumption	Max. 7W (IR-LED ON)
Power output	N/A
Operating temperature	-40°C ... +60°C
Max. humidity	90%
Certifications & ratings	CE / FCC / IP67
Dimensions / weight	232.3 x 74.8 x 80 mm / 810 g
Position adjustment range	180° (H) / 180° (V) / 350° (Rotation)

Network & Cybersecurity	
Network protocols (1/3)	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE
Network protocols (2/3)	RTSP/RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP
Network protocols (3/3)	QoS, ICMP, IGMP, SMTP, IEEE 802.1X, SNMP, Multicast
Interoperability	ONVIF (Profile S/T/G/M), SDK, CGI
Users / levels	Up to 10 users; Administrator, Operator, Media user
Security	IP address filtering, encrypted HTTPS, unauthorized-login lockout, IEEE 802.1X
Web browsers	IE11, Chrome, Firefox, Microsoft Edge
Network interface	1 × Ethernet (10/100 Base-T), RJ45
RTSP support	Standard RFC2326 (VLC Player / QuickTime)

Built-in video analytics functions GENSTAR IVS 2.0 (AI Analytics)

AI Multi-object

Intrusion

Smart detection

Line crossing

Double line

Loitering

Wrong direction

People counting

DORI Distance						
Lens	Detection		Observation	Recognition	Identification	
2.7–13.5 mm	63–217 m		25.2–86.8 m	12.6–43.7 m	6.3–21.7 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
78.8–271.3 m	39.4–135.6 m	19.7–67.8 m	12.6–43.4 m	6.3–21.7 m	3.2–10.9 m	1.1–3.6 m

Mounting adapters:

ZA8-JBMP-2
 (Holes B)

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

Compatibility:

CURTROL VMS

GENSTAR NVR

Overall dimensions:

