



IP camera with GenSTAR IVS 2.0 analytics



Model	ZN8-80X2B8F28DT-J4
Sensor	1/2.8" CMOS, Sony 2x IMX675, 5MP
Sensitivity (AGC ON)	Color: 0.01 Lux @ (F1.6, AGC ON) B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with LED on
Day/Night mode	Automatic IR-Cut filter
Electronic shutter	Auto/Manual, 1/5 to 1/100,000s
Aperture	Auto Iris
WDR mode	True WDR
Noise reduction	2D / 3D-DNR
Lens	2.8 mm (viewing angles: H: 180° / V: 63°)
LED illuminator	2x IR LED, range up to 20 m 2x Warm LED range up to 30 m
AV compression	H.265 / H.264 / MJPEG / G.711U / G.711A / RAW
Video Bit Rate (CBR/VBR)	Connection mode: Stream 1: 500Kbps-16Mbit Stream 2: 200 Kbps – 8 Mbit Multi-channel mode: Stream 1: 200Kbps-12Mbit Stream 2: 100 Kbps – 6 Mbit
Resolutions and frames	Connection mode: 4608x1728 @ 15fps 1536x576 D1, VGA, CIF, QVGA @ 15fps Multi-channel mode: 2592x1944, 2592x1520, 1920x1080, 1280x720, D1, VGA, CIF, QVGA @15fps
Video streams	Stream 1: max. 4608x 1728 (8MP) Stream 2: max. 1536x 576 (D1) Stream 3: none
Image settings	Rotation, saturation, brightness, contrast, sharpness
Digital functions	HLC / BLC / ROI / DEFOG
Corridor mode	Yes (9:16)
Privacy masks	4 zones
Events	Motion detection (22x 18 grid), D/N switching Alarm IN, Audio IN, GenSTAR IVS 2.0 analytics,
Network protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast
RTSP support	Standard RFC 2326 (VLC Player / QuickTime)
Security	User authorization, hardware WatchDog
Compatibility	ONVIF (Profiles S/T/G/M), SDK, CGI
Ethernet interface	10/100 Base-T, RJ45
Audio	1x In / 1x Out / Built-in microphone + speaker (5W)
Alarm	1x In / 1x Out
Analog output	N/A

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Special features:

- **GenSTAR IVS 2.0** – AI (Artificial Intelligence) analytics, artificial intelligence using DeepLearning algorithms for instant, accurate detection and recognition of objects such as people and vehicles.
- **Smart Encode** – dynamically adaptable network stream and codec parameters for continuous recording with minimal archive space requirements.
- **Converter work schedules** – the ability to configure the image converter to operate according to time or Day/Night mode.
- **Dual Light** – devices equipped with an IR LED illuminator and an additional white LED illuminator (warm color) activated when an object is detected in the designated zone to obtain a color image.
- **2 lens operating modes** – combination mode (allows you to obtain a 180° image from the camera) and multi-channel mode (each lens is used independently of the other)
- **ROI** – for user-defined areas of interest, ROI (Region of Interest) zones, the camera maintains maximum image quality while reducing the quality outside the designated zones to reduce bandwidth usage (Bit Rate).
- **Integrated 5W speaker** and microphone in the camera housing.
- **NDAA compliance** – the device complies with the US Congress act called the "National Defense Authorization Act".
- **Heat map** - creation of specific color maps. Allows you to estimate information about the flow of people and/or vehicles at a given time in a specified area.

AI analytics functional capabilities: GenSTAR IVS 2.0

AI engine features (Artificial Intelligence)	Object detection: DeepLearning engine Detection: face, person, vehicle Object classification: person, vehicle - Detector Simultaneous tracking of multiple objects - Tracker
Behavioral detection	Intrusion, loitering, crossing a single or double perimeter line, heat maps
Object counting	Counting people or vehicles with notification when a set threshold value is exceeded
Technical	
Power	DC12V / PoE: 802.3af, Class 3
Power consumption	7.2W (IR LED On) / 6W (White LED On)/max. 11.5W
SD card support	microSD slot up to 1TB
Reset button	Yes
Power output	N/A
Operating temp. range	-30°C ... +60°C
Operating humidity range	≤ 90
Certifications and ratings	CE / FCC / IP66
Dimensions / weight	227.7x 110x 80 mm / 820 g
Housing	Metal
Adjustment range	Horizontal: 0° to 360°, Vertical: 0° to 90°, Rotation: 0° to 360°

Mounting
Mounting:



Compatibility:



DORI Distance				
Lens	Detect	Observ	Recognize	Identify
2.8 mm	44 m	17.6 m	8.8 m	4.4 m

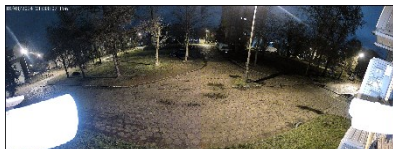
Additional information:

Dual-Light (Dual illuminator)

- ① – IR LED illuminator enabled by default in night mode



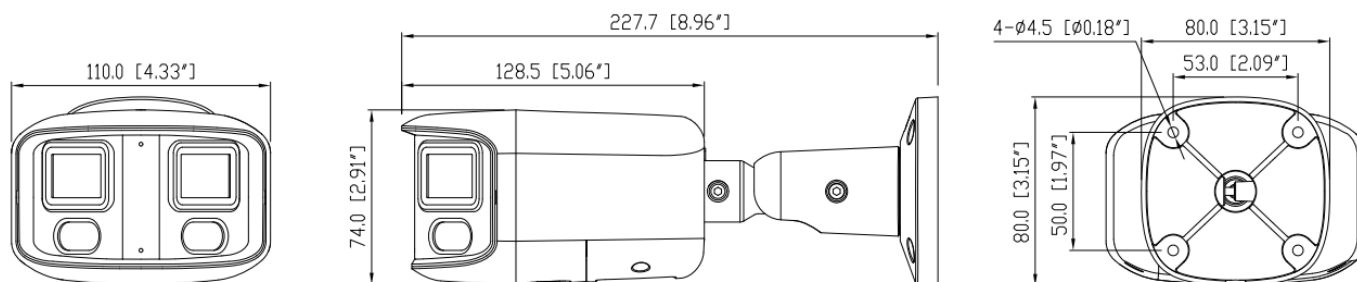
- ② – Activates white light illuminator and color mode when an object is detected or manually



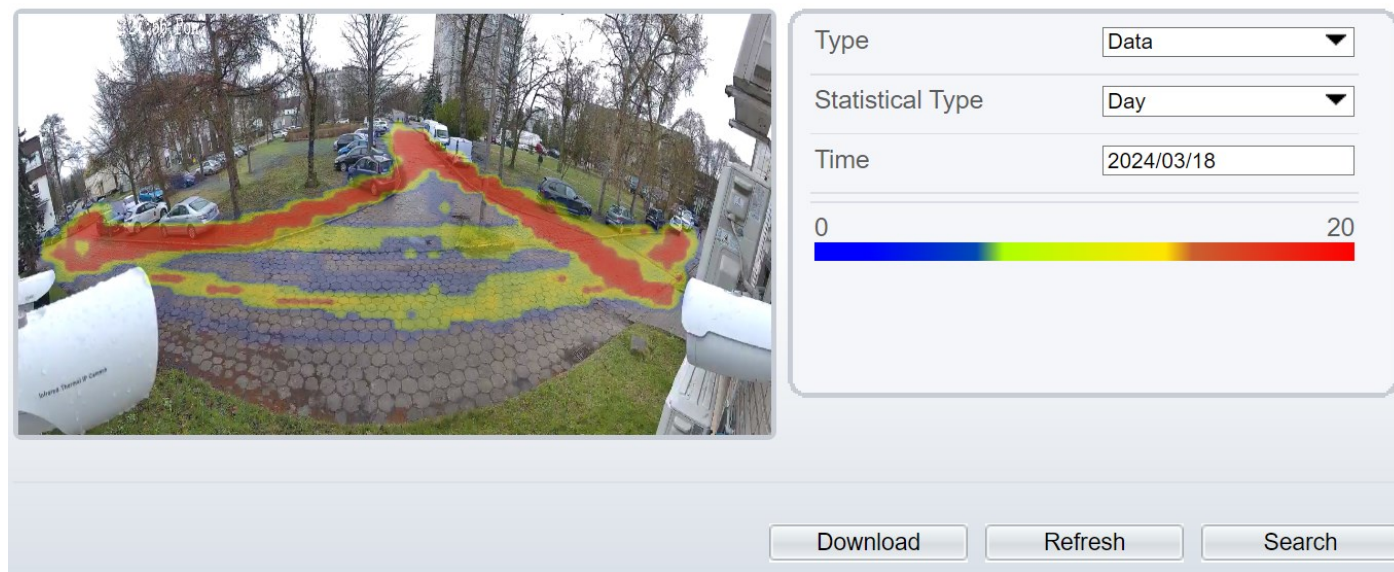
- ③ – Return to normal mode after an event



External dimensions:



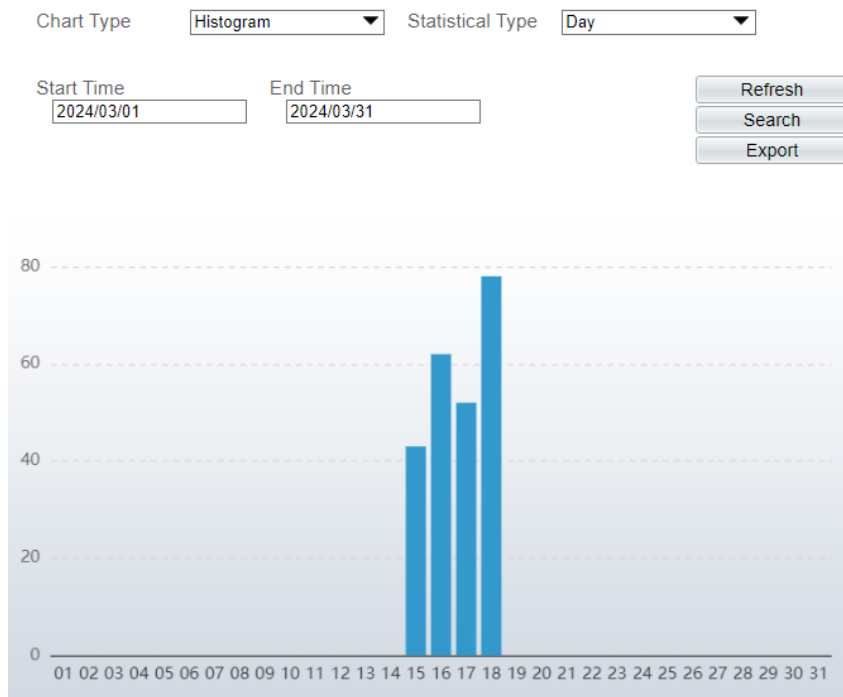
Heat Map function



Areas with the highest traffic are marked in red, while blue indicates the opposite. The heat map is a feature that is ideal for use in places such as supermarkets, retail stores, and shopping centers to help businesses identify their most popular products. Smart product placement helps increase sales.

Downloading statistical data

Heat Map Export



Based on this information, you can verify customer visits to the facility during an hour, day, month, or year.