



# Camera with embedded Network Optix VMS Server

## 8MP IR Varifocal Dome Network Camera

Camera with an embedded Network Optix VMS server, enabling local video management directly within the camera. This provides a cost-effective and scalable solution with high performance, advanced analytics, and seamless integration without the need for an external server. All cameras with embedded Network Optix can be connected to a single unified view, delivering a consistent, clear, and easy-to-manage surveillance system through one common interface. NX Recording license, SD Card purchase separately.

### Key Features

- 1/2.8" STARVIS™ CMOS
- Max. 8MP(3840 × 2160) @25/30 fps resolution
- 2.7 to 12 mm motorized lens
- Supports face, human, and vehicle detection & capture.
- Supports human and vehicle attribute detection.
- Intelligent analytics: Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection, and people counting.
- True WDR (120dB), 3D DNR, ROI, Defog, HLC
- Smart IR distance up to 40 m
- 1/1 audio input/output, 1/1 alarm input/output
- Built-in micro SD card slot
- IP67, IK10-rated housing



## Specification

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Max. Resolution	8MP, 3840(H) × 2160(V)
Shutter Speed	1/5 to 1/20,000 s
Min. illumination	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), Lux with IR on
Day & Night	Auto (ICR)
Angle Adjustment	Pan: 0° to 355°, Tilt: 0° to 75°, Rotation: 0° to 355°
Lens	
Lens Type	Varifocal lens, Motorized focal
Iris	Auto Iris
Focal Length	2.7 to 12 mm
Max. Aperture	F1.6
Field of View (FOV)	H: 100° to 31.7°, V: 53° to 17.8°
Illuminator	
Type	IR
IR wavelength	850 nm
Distance	Up to 40 m (131.2 ft)
Control	Auto/Manual
Intelligent Analytics	
AI Multi-Target	<ul style="list-style-type: none"> <li>- Supports face, human, and vehicle detection &amp; capture</li> <li>- Supports human and vehicle attribute detection</li> <li>- Supports multiple frame modes: Full Frame, Four-Corner Frame, Mosaic</li> </ul>
Attribute Extraction	Human Attributes: Gender, age, glasses, hat, bag, upper clothing color & style, lower clothing color & style, reflective vest Vehicle Attributes: Type, color, brand, orientation
Intelligent Analysis	Intrusion detection, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection - Supports accurate target classification (human/vehicle)
People Counting	Supported
Video and Audio	
Number of Streams	3 Streams
Resolution	Stream1: 3840 × 2160, 2592 × 1944, 2592 × 1520, 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720 Stream2: D1, VGA, CIF Stream3: VGA, CIF, QVGA

Frame Rate	Up to 25/30 fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 100 kbps to 16 Mbps Stream2: 100 kbps to 6 Mbps Stream3: 100 kbps to 3 Mbps
Region of Interest (ROI)	8 areas
Smart Encoding	Supported
Audio Compression	G.711 A-law, G.711 $\mu$ -law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)
Image	
Image Adjustment	Brightness, Sharpness, Contrast, Saturation
Scene Mode	Indoor, Outdoor, Mirror, Corridor Mode
Exposure Mode	Auto, Manual, Shutter priority
White Balance	Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual
Day/Night Setting	Auto, Day mode, Night mode, Timer
Noise Reduction	2D/3D DNR
Image Enhancement	WDR, HLC, BLC, Defog
Wide Dynamic Range	True WDR (120dB)
Privacy Masking	4 areas
Event	
Alarm Triggers	IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection
Event Actions	Alarm record, SMTP upload, FTP upload, Alarm output, Audible alarm output
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
Interoperability	ONVIF (Profile S/T/G/M), SDK, CGI
Max Concurrent Streams	10 channels
User/Host Level	32+ users, 3 levels: Administrator, Operator, Media user
Security	IP address filter, HTTPS, Illegal login lock, IEEE 802.1x
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
Security	
OS / Firmware Protect	Encrypted firmware, Secure boot, Signed firmware

User Authentication	Digest authentication, Prevent brute-force attack
Network Authentication	IEEE 802.1X (EAP-TLS)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, Auto logout
Data Protect	Encryption credentials
Audit	Access / System / Event Log management
Secure Storage	SDcard partition encrypt (AES-256), Secure element
Supply Chain Security	SBOM

## Interface

Network Interface	1 × Ethernet (10/100 Base-T), RJ-45 connector
Audio Interface	1 × Input; 1 × Output
Alarm Interface	1 × Input; 1 × Output
SD Card Slot	Built-in, up to 1TB
Reset Button	Supported

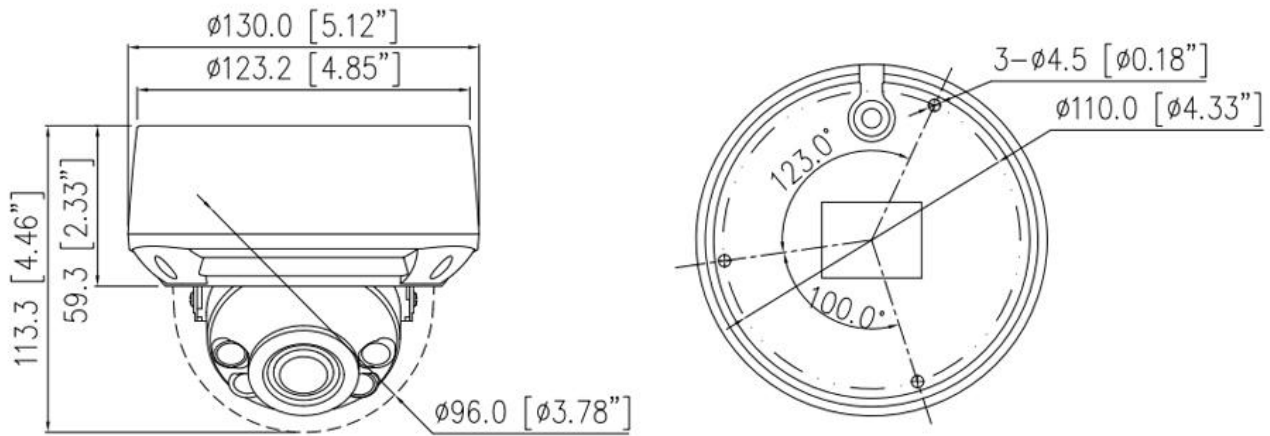
## General

Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Power Supply	12 VDC (-15% to +25%)/PoE (802.3af)
Power Consumption	Max 8.5 W
Operating Temperature	-40°C to 60°C (-40°F to 140°F )
Operating Humidity	0 to 95% RH (non-condensing)
Ingress Protection	IP67 (housing), IK10
Certifications	CE/FCC
Material	Aluminum alloy body, bubble: plastic
Dimensions	φ130 × 113.3 mm (φ5.12 × 4.46 inch)
Net Weight	Approx. 0.8 kg (1.76 lb)

## DORI Distance (EN62676-4 standard)

Detect	94 to 274 m (308.4 to 899.0 ft)
Observe	37.6 to 109.6 m (123.4 to 359.6 ft)
Recognize	18.8 to 54.8 m (61.7 to 179.8 ft)
Identify	9.4 to 27.4 m (30.8 to 89.9 ft)

## Dimensions (mm)



## Accessories

### Optional:



20125331  
Junction Box



20125332  
Pendant Cap



20125333  
Ceiling Mount



Recessed Mount



20125334  
Wall Mount



Wall Mount



20123531  
Pole Mount



20123532  
Corner Mount