

Milesight

OpenVision 360° Panoramic Fisheye Network Camera

Plug-and-Play with Built-in Nx Server



Built-in Nx
Server



Comprehensive
VCA Intelligence



Plug and Play
Simplicity



Up to 2TB
Edge Storage



KEY FEATURES

- Built-in Nx Server
- True 12MP Panoramic Imaging
- Dual microSD Storage, Up to 2TB
- Multi-interface Design
- NDAA Compliant
- 1/1.6" CMOS Sensor
- VCA2.0 & Msense AI Analytics
- ONVIF Profile G & M & S & T

AVAILABLE MODELS

▶ MS-C12174-YPKG1/M1/NX

	Model	MS-C12174-YPKG1 (12MP)
Camera	Image Sensor	1/1.6" Progressive Scan CMOS
	Min. Illumination	Color: 0.008Lux@F2.0 B/W: 0Lux with IR on
	WDR	120dB Super WDR
	Shutter Time	1/100000s~1s
	Day/Night Mode	Day/Night/Auto/Customize
	DORI Distance	D: 34.67m; O: 13.87m; R: 6.93m; I: 3.47m (Wall Mount) D: 50.55m; O: 20.22m; R: 10.11m; I: 5.05m (Ceiling Mount) >55dB
	S/N	>55dB
Illuminator	Illuminator Number	4 (IR)
	IR Wave Length	850nm
	Illumination Distance	20m
	Illuminator On/Off Control	Auto/Manual
Lens	Lens	1.7mm@F2.0
	Mount	M12
	Field of View	Ceiling Mount: 360°; Wall Mount: 180°; Flat Mount: 360°
	Aperture	F2.0
	Iris Type	Fixed

Image	Image Rotation	Support Digital Rotation (0°~359°, 1° step)
	Deblur	Yes
	Privacy Masking	Up to 8 Areas
	ROI	Up to 8 Areas
	Image Setting	Brightness/Contrast/Saturation/Sharpness
	Image Enhancement	Fisheye View: WDR, BLC, HLC, 2D DNR, 3D DNR, AWB, Defog, AGC, Anti-flicker, Deblur
Fisheye	Mount Mode	Ceiling Mount, Wall Mount, Pedestal Mount
	Decoding Mode	On-board Decoding
	Display Mode	Fisheye View
	Transfer Mode	Bundle-Stream Mode, Multi-Channel Mode
Video	Max. Image Resolution	3520x3520
	Primary Stream	Fisheye View: 60Hz: 30fps@(3520x3520, 3024x3024, 2560x2560, 2048x2048) 50Hz: 25fps@(3520x3520, 3024x3024, 2560x2560, 2048x2048)
	Secondary Stream	Fisheye View: 60Hz:30fps@(720x720,480x480) 50Hz:25fps@(720x720,480x480)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264
	Video Bit Rate	16Kbps~16Mbps (CBR/VBR Adjustable)
Network	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, LLDP, RTSP, RTSPS/SRTP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, VPN, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, TLS 1.2
Interface	Ethernet	1*RJ45 10M/100M/1000M Ethernet Port

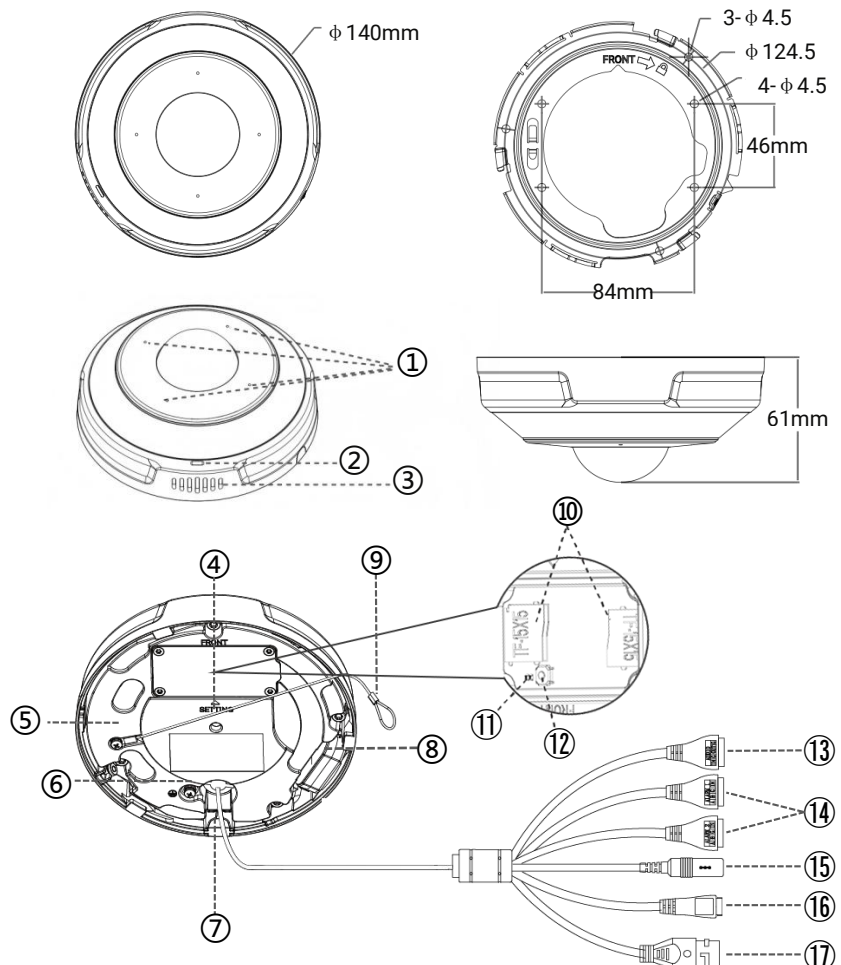
	Alarm I/O	2/2
	Audio I/O	1/1
Audio	Built-in Microphone	Yes, 4 built-in microphones
	Built-in Speaker	Yes, 1 built-in speaker
	Audio Compression	G.711/AAC/G.722/G.726
	Audio Sampling Rate	8/16/32/44.1/48KHz
	Audio Bit Rate	16~256kbps
Intelligent Analytics	Video Analysis	VCA: Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Line Crossing, Loitering, Object Left, Object Removed
	Attribute Extraction	Real-time capture of humans and vehicles. Recognizes attributes: upper/lower clothing color, hat, vehicle type (bicycle, car, motorcycle, bus, truck, e-scooter).
	Object Counting & Report	Supports line crossing counting for humans and vehicles; regional people counting for up to 4 areas.
	Heat Map	The built-in statistical behavior analysis enables you to identify the busiest areas within the environment.
	Sound Classification	Detects gunshot, glass-break, and screaming.
Event	Basic Event	Motion Detection, Tamper Detection, Audio Alarm, External Input, External Output, etc.
	Exception	Network Disconnection, IP Address Conflict, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No SD Card, etc.
	Event Action	FTP Upload Record, SMTP Upload Record, SD Card Record, Snapshot, SIP Phone, Play Audio, External Output, HTTP Notification, etc.
	One-Click Disarm	Yes
System	Storage	Supports dual Micro SD/SDHC/SDXC card slots, each up to 1TB, with independent hardware and partitioned storage.

	TPM2.0	Secure element (FIPS 140-3 level 3, CC EAL 4+)
	Watermark	Yes
	SIP/VoIP Support	Yes, Voice & Video-over-IP
	System Compatibility	ONVIF Profile G & M & S & T, Milesight API
	VMS Support	NX witness
Edge VMS	Edge Storage	Support 2* microSD Card Local Storage, up to 2TB (UHS-I Micro SD, A2 standard or above); Support SD Card Health Information Query
	Host	If all AI features are enabled, the system supports registering a maximum of 1 cameras (requires a 1x NX channel license), with a total bandwidth of up to 14Mbps. If all AI features are disabled, the system supports registering a maximum of 2 cameras (requires a 2x NX channel license), with a total bandwidth of up to 14Mbps. Note: Please make sure to enable the "Allow optimize camera settings" option in the Nx Witness Client.
	NX Merge	Max. 16 Camera
General	Working Temperature	-40°C~60°C (-40°F to 140°F)
	Working Humidity	0~90% (Non-condensing)
	CPU	Dual-core 64-bit Arm CA53 processor
	Memory&Flash	2GB RAM, 4GB eMMC
	Power Supply	PoE (802.3af) / DC 12V±10%
	Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.
	Power Consumption	Min.: 5.6W (DC), 7.2W (PoE) Max.: 9.9W (DC), 11.9W (PoE)
	Surge Protection	4KV

	Net Weight	733.7g (1.62 lb)
	Gross Weight	1000.6g (2.21 lb)
	Dimensions	140mm x 140mm x 61mm
	Warranty	5 Years
Certifications	EMC	CE-EMC (EN IEC 61000-3-2:2019+A2:2024, EN 61000-3-3:2013+A2:2021+AC:2022-01, EN 55032:2015+A1:2020, EN 55035:2017+A11:2020) FCC 47 CFR Part 15 Subpart B
	Safety	CE-LVD (EN IEC 62368-1:2024 + A11:2024)
	Environment	CE RoHS: Directive 2011/65/EU amended by (EU) 2015/863
	Protection	IP67 (IEC 60529:2019) IK10 (IEC 62262:2021)

Structure Diagrams

- | | |
|---|-----------|
| 4. Microphone | 1. DC 12V |
| 5. Weep Hole | 2. RS485 |
| 6. Speaker | 3. LAN |
| 7. UNC1/4-20 Thread Port | |
| 8. Anti-loss Rope Retention Hole | |
| 9. Grounding Screw | |
| 10. Side Exit Cable Grommet | |
| 11. Speaker | |
| 12. Anti-loss Rope | |
| 13. Dual Micro SD/SDHC/SDXC
Card Slots Cover | |
| 14. Indicator | |
| 15. Reset Button | |
| 16. Audio In/Out | |
| 17. Alarm In/Out | |



Accessories Support

