Milesight

AI 360° Panoramic Fisheye Network Camera

NDAA

IP67

IK10



DATASHEET

KEY FEATURES

► NDAA Compliance (The fully NDAA-compliant products are well suited for government, defense and a range of projects subject to the NDAA.)

► 12MP (3520x3520)/9MP Ultra High Resolution (Capturing images of the entire area with superb clarity and finest details.)

► Multi-interface (Equipped with 4 built-in microphones, Audio I/O, 2×Alarm I/O, and DC 12V to meet diverse needs.)

► 120dB Super WDR (Excellent performance even when the ratio of the luminosity of brightest and darkest is up to 120dB.)

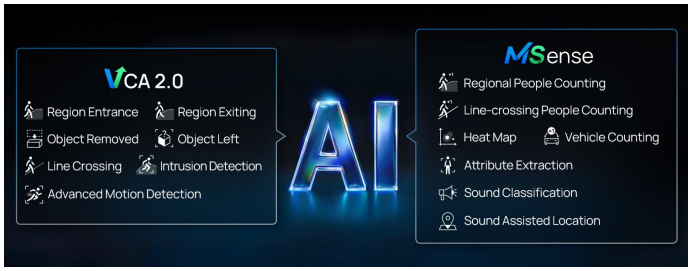
► Dual 1TB microSD Card Slots (Supporting ultra-large external microSD/SDHC/SDXC card storage up to 2TB.)

► Two Compatible Modes (Bundle-Stream Mode combines all channels into one for easier compatibility. Multi-Channel Mode sends all the original channels for separate settings.)

► Metadata (Supports transmitting metadata to third-party platforms, providing richer attribute information for advanced applications.)

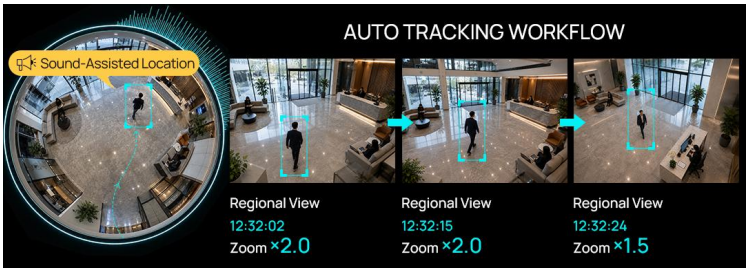
AI Video Analytics

Leveraging deep- learning- based human and vehicle classification, the full AI VCA 2.0 suite delivers ultra- low false alarms, long- range and multi- object detection, and robust perimeter security. MSense is tailored for diverse vertical sectors with custom smart analytics and superior adaptability.



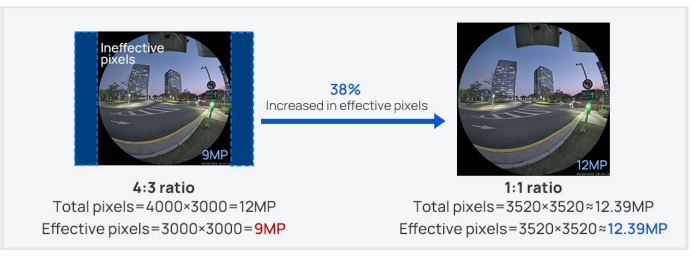
Fisheye Auto Tracking & Sound Assisted Location

Supports target tracking in both 360° Panoramic View and PTZ View via multiple triggering modes: manual/auto tracking and VCA event-triggered tracking. In addition, it can localize human sound sources and activate tracking accordingly.



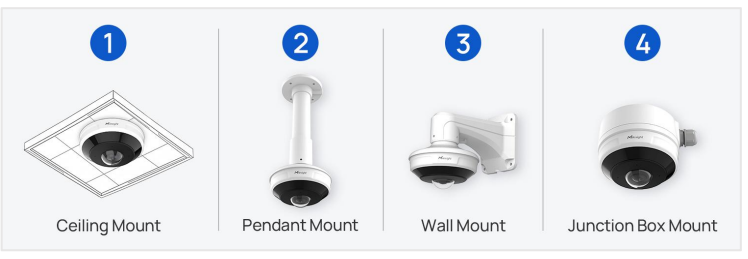
Clearer Imaging & Superior De-distortion Performance

Equipped with a 1/1.6” sensor and powerful SoC, the fisheye camera delivers superior image sharpness and robust distortion correction for enhanced over all image quality. Additionally, it provides 360° wide-angle coverage to enable blind-spot-free monitoring, with scene perception functionality supporting aut omatic environmental adaptation.



Easy Installation

Direct ceiling mounting is supported via the mounting plate for quick installation. Versatile options include pendant, pedestal, wall, and junction-box mounts. 360° stepless rotation via software control removes angle constraints, making setup even easier.



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Camera	**Model**	**MS-C12174-YPG1 (12MP)**
	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
	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)
	S/N	>55dB

Lens	Lens	1.7mm@F2.0
	Aperture	F2.0
	Field of View	Ceiling Mount: 360°; Wall Mount: 180°; Flat Mount: 360°
	Iris Type	Fixed
	Mount	M12

Illuminator	Illuminator Number	4 (IR)
	IR Wave Length	850nm
	IR Distance	20m
	Illuminator On/Off Control	Auto/Manual

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)

Image	Privacy Masking	Up to 8 Areas
	ROI	Up to 8 Areas
	Image Setting	Brightness/Contrast/Saturation/Sharpness
	Rotation	Support Digital Rotation (0°~359°, 1° step)
	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

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	Display Mode	Fisheye View, 180° Panorama View, Dual-Channel 180° Panoramic View, 4PTZ, Fisheye + 3PTZ
	Transfer Mode	Bundle-Stream Mode, Multi-Channel Mode
	ePTZ	Supports target tracking in both 180° Panoramic View and PTZ View. Triggering modes: Manual tracking, VCA event-triggered tracking, Sound-Assisted Localization tracking, and Auto Tracking.

Interface	Ethernet	1*RJ45 10M/100M/1000M Ethernet Port
	Alarm I/O	2/2
	Audio I/O	1/1
	Built-in Microphone	Yes, 4 built-in microphones
	Built-in Speaker	Yes, 1 built-in speaker

Network	Network Storage	NAS (Support NFS, SMB/CIFS)
	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

Audio	Audio Compression	G.711/AAC/G.722/G.726
	Audio Sampling Rate	8/16/32/44.1/48KHz
	Audio Bit Rate	16~256kbps
	Two-way Audio	Support

Intelligent Analytics	Video Analysis	VCA2.0: 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.
	Privacy Protection	Supports automatic mosaic overlay for faces and human bodies. Supported on main/sub stream; compatible with H.265/H.264. Available only in fisheye view.
	Sound Classification	Detects gunshot, glass-break, and screaming.
	Sound Assisted Location	Localizes human sound source and triggers tracking in PTZ view.

Event	One-Click Disarm	Support
	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.



System	On-Board Storage	Supports dual Micro SD/SDHC/SDXC card slots, each up to 1TB, with independent hardware and partitioned storage.
	Advanced Function	IP Address Filtering, Watermark
	SIP/VoIP Support	Yes, Voice & Video-over-IP
	TPM2.0	Secure element (FIPS 140-3 level 3, CC EAL 4+)
	System Compatibility	ONVIF Profile G & M & S & T, Milesight API

General	Working Temperature	-40℃~60℃ (-40°F to 140°F)
	Working Humidity	0~90% (Non-condensing)
	Power Supply	PoE (802.3af) / DC 12V±10%
	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

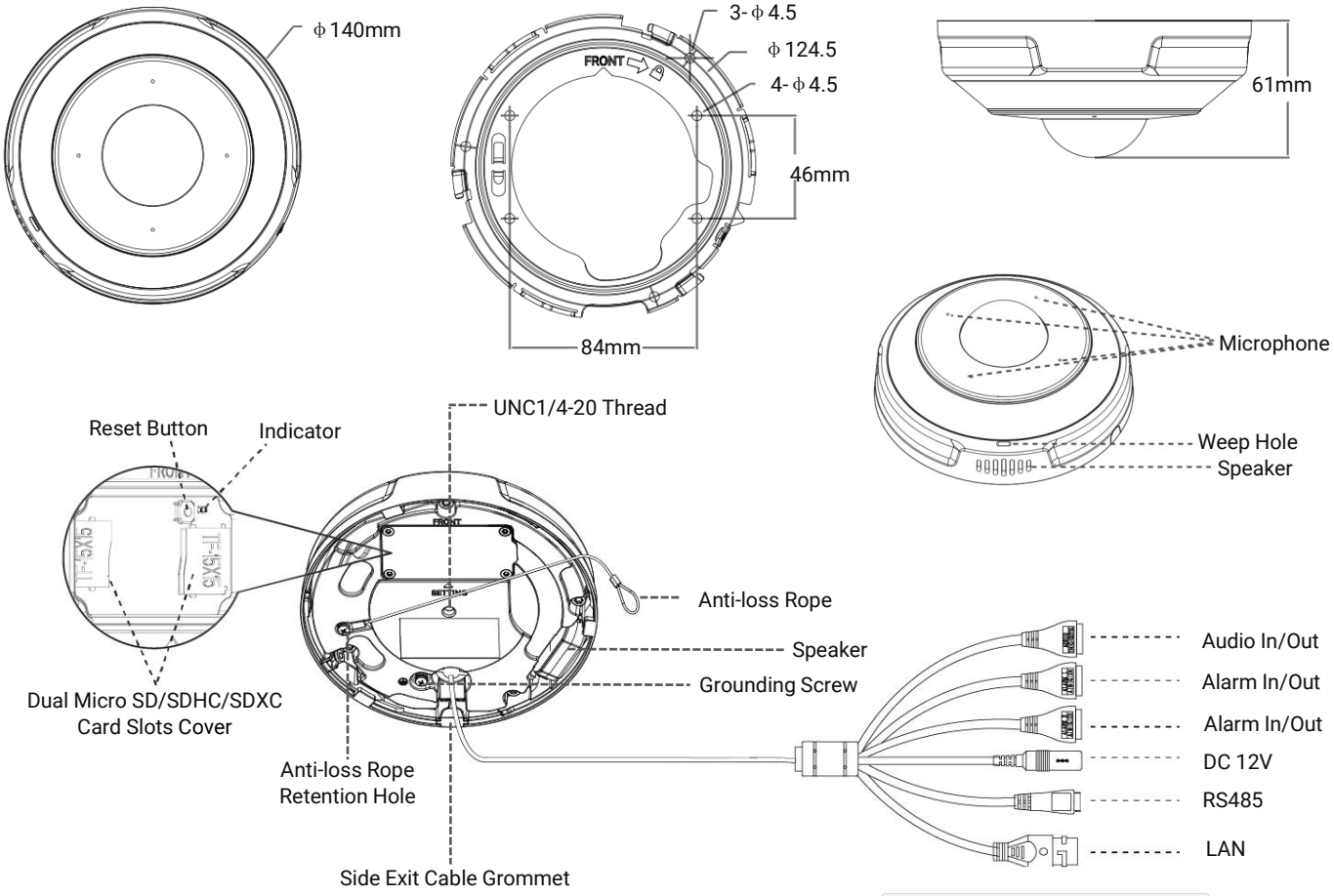
Certifications	EMC	CE-EMC (EN IEC 61000-3-2:2019+A2:2024, EN 61000-3-3:2013+A2:2021+AC:2022-01, EN 55032:2015+A1:2020, EN 55035:2017+A11:2020) FCC 47 CFR Part 15 Subpart B
	Safety	CE-LVD (EN IEC 62368-1:2024 + A11:2024)
	Environment	CE RoHS: Directive 2011/65/EU amended by (EU) 2015/863
	Protection	IP67 (IEC 60529:2019) IK10 (IEC 62262:2021)

V1.0

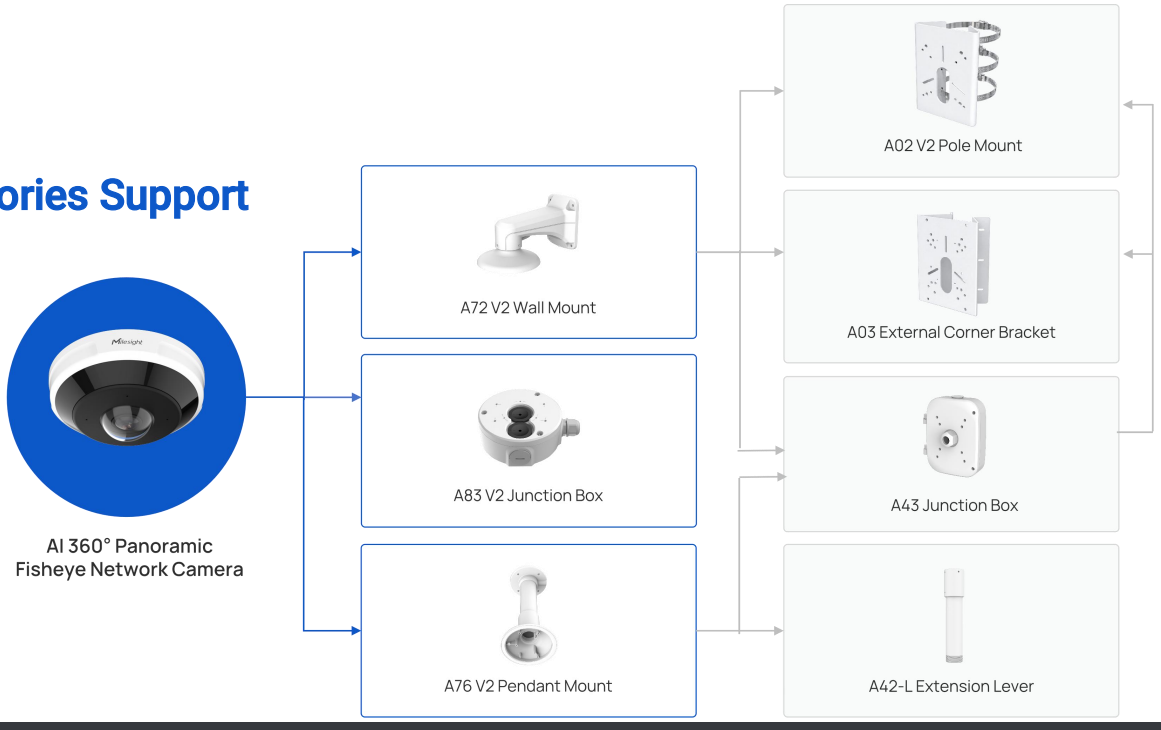
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Structure Diagrams



Accessories Support



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