Milesight

OpenVision TrueColor Dual-sensor 180° Panoramic Network Camera



NDAA

IP67

IK10

AI | 180° | Fusion Xpert | 8MP | Fixed Dual-Lens | True Color | Super WDR | Object Counting | Heat Map | PoE | GMST Onvif

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.)
- 180° Ultra-Wide FOV & Zero Distortion (With an expanded 180° panoramic view and a 58° vertical field of view, it delivers an immersive and comprehensive perspective.)
- 24/7 TrueColor Imaging (Featuring 4 IR Lights for up to 30m and 2 White Lights for up to 25m illumination distance, delivering outstanding TrueColor image even in challenging conditions.)
- Smart Hybrid Light (IR remains at night until a target enters the detection area, triggering white light activation, the camera then captures video and critical event details.)
- White Strobe Light Deterrence (Upon detecting suspicious activity, the white strobe light is instantly activated, providing an immediate visual deterrent.)
- Various AI VCA features ensure the physical security, while Object Counting and Heat Map provide trend analysis.
- 1TB Expandable Storage & Built-in Microphone (Supporting ultra-large external micro SD/SDHC/SDXC card storage up to 1TB & featuring an advanced microphone.)

Seamless Nx Integration, Unified Maintenance

With embedded Network Optix VMS Server, the camera integrates all functions, delivering a VMS-on-edge solution. This integration enables plug-and-play deployment and seamless, unified management directly through NX Witness. The built-in Milesight Analytics plugin enables advanced event detection and metadata functionalities for intelligent monitoring.



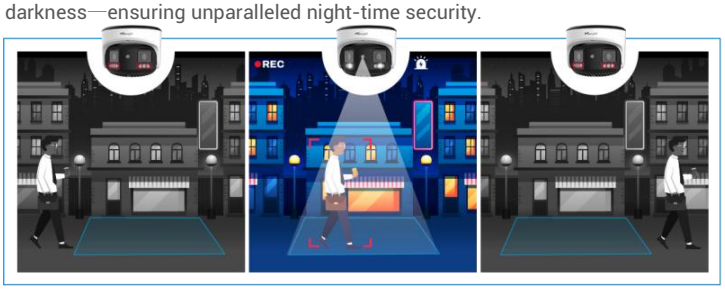
180° Ultra Panoramic View

Introducing dynamic stitching and dual sensors for a seamless 180 ° panoramic view with 58 ° vertical coverage, delivering edge-to-edge clarity with zero distortion. With ePTZ and auto-tracking, the camera automatically detects and continuously follows human and vehicles. These innovations significantly reduce blind spots and enhances detail capture across a wider area, marking a breakthrough in panoramic surveillance.



Precise Strobe Deterrence & TrueColor Night Vision

Featuring powerful Active Deterrence with advanced VCA analytics, the camera instantly switches to TrueColor mode, capturing high-resolution video while strobing the White Flashing Light upon detecting intruders. Powered by advanced 1/1.8" STARVIS2 Starlight Sensor and F1.0 large-aperture lenses, it delivers true-to-life color images—even in complete darkness—ensuring unparalleled night-time security.



Edge-Cutting Industrial Design

Milesight's innovative industrial design, including Alarm In/Out, Microphone, Hybrid Light, and 1TB SD Card Slots ensures seamless adaptability for various surveillance needs. Featuring NDAA compliance and a TPM 2.0 chip for hardware-level security, the camera offers enhanced reliability with IP67 and IK10 ratings, ensuring stable operation even in harsh environments and effective defense against potential threats.



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	Model	MS-C8477-HPKG1
Camera	Image Sensor	Dual 1/1.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.0005Lux@(F1.0, AGC ON), B/W: 0Lux with IR on
	WDR	140dB Super WDR
	Shutter Time	1/100000s~1s
	DORI Distance	Detect: 62.7m Observe: 24.7m Recognize: 12.3m Identify: 6.2m
	Day/Night Mode	Day/Night/Auto/Customize
	S/N	>55dB
Illuminator	Illuminator Number	4 x IR Lights, 2 x White Lights
	IR Wave Length	850nm
	Illumination Distance	Up to 30m (IR Light), Up to 25m (White Light)
	Illuminator On/off Control	Auto/Manual
Lens	Lens	4mm@F1.0
	Mount	M16
	Field of View	H180°/ V58°
	Close Focus Distance	Min. 3m
	Aperture	F1.0
	Camera Angle Adjustment	Pan:0°, Tilt: 0°~90°, Rotation: 0°
Video	Max. Image Resolution	5120x1520
	Primary Stream	60Hz: 30fps@(5120x1520), 50Hz: 25fps@(5120x1520)
	Secondary Stream	60Hz: 30fps@(1280x380, 960x288, 736x224, 640×190) 50Hz: 25fps@(1280x380, 960x288, 736x224, 640×190)
	Tertiary Stream	60Hz: 30fps@(1920x576), 50Hz: 25fps@(1920x576)
	ePTZ Stream	60Hz: 30fps@(1920x1080), 50Hz: 25fps@(1920x1080)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)
Image	Privacy Masking	Up to 8 Mask Areas
	ROI	Up to 8 Areas
	Image Setting	Brightness/Contrast/Saturation/Sharpness
	Image Rotation	Rotating 180°
	Image Enhancement	BLC, HLC, DNR, Defog, AWB, AGC, Anti-flicker, Deblur

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Interface	Ethernet	1*RJ45 10M/ 100M Ethernet Port
	Power Port	Support
	Audio Interface	1*Audio Out Interface
	Alarm I/O	1/1
Network	Network Storage	NAS(Support NFS, SMB/CIFS), ANR
	Protocol	IPV4/IPV6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, VPN, SIP, LLDP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, TLS 1.2
Audio	Built-in Microphone	Support
	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 2.0:** Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Line Crossing, Loitering, Object Left, Object Removed
	Object Counting & Report	Count the number of objects crossing the line, optionally human and vehicle, and support regional people counting for up to 4 detection areas
	Heat Map	The built-in statistical behavior analysis enables you to identify the busiest areas within the environment
Event	Basic Event	Motion Detection, Tamper Detection, Audio Alarm, External Input, External Output, etc.
	Exception	Network Disconnection, IP Address Filtering, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No SD Card,etc.
	Event Action	Snapshot, SMTP Upload, SD Card Record, External Output, Play Audio, SIP Phone, HTTP Notification, etc.
System	Watermark	Support
	Storage	Support micro SD/SDHC/SDXC Card Local Storage, up to 1TB
	TPM 2.0	Support
	SIP/VoIP Support	Yes, Voice & Video-over-IP
	System Compatibility	Milesight API
	VMS Support	NX Witness
Edge VMS	Edge Storage	Support microSD Card Local Storage, up to 1TB (UHS-I Micro SD, A2 standard or above); Support SD Card Health Information Query
	Edge VMS	**Single Camera Mode:** Support to register the maximum number of the camera - up to 1 camera (purchase the license with 1x NX channel) - total bandwidth: Up to 12Mbps. *AI Mode can be enabled for Single Camera Mode. **Multi-camera Mode:** Support to register the maximum number of the camera - up to 2 cameras (purchase the license with 2x NX channel)- total bandwidth: Up to 24Mbps. *AI Mode must be disabled when hosting 1 additional camera. Only basic video streams are supported.
	NX Merge	Max. 16 Cameras

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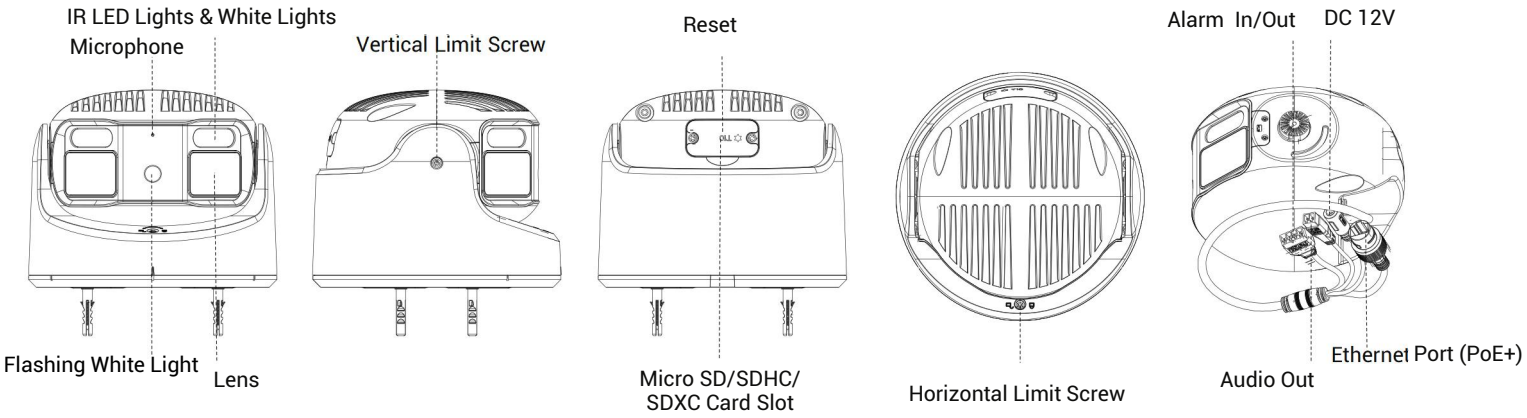
General	Working Temperature	-40℃~60℃
	Working Humidity	0~95% RH (Non-condensing)
	CPU	Dual-core 64-bit Arm CA53 processor
	Memory	2GB RAM, 4GB Flash
	Power Supply	PoE+(802.3at)/ DC 12V/2A+20% (Note: When both the power adapter and PoE are connected, please disconnect either one. This will not cause the device to restart; it will continue to work normally.)
	Power Consumption	**Min.:** 4.2W(DC 12V), 5W(PoE+) **Max.**: 12.7W(DC 12V), 15W(PoE+)
	Net Weight	Approx. 1.4Kg
	Gross Weight	Approx. 1.7Kg
	Dimensions	Φ160mm X 128mm
	Warranty	3/ 5 Years (Optional)
Certifications	EMC	CE-EMC (EN 55032, EN 55035, EN61000), FCC (PART 15B)
	Safety	CE-LVD (EN IEC 62368-1)
	Environment	CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU)
	Protection	IP67, IK10

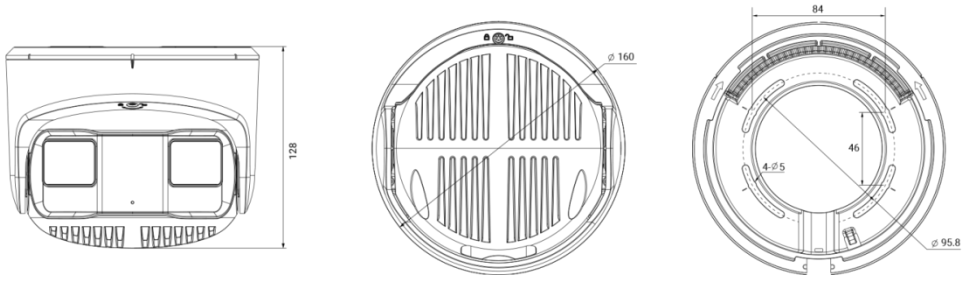
*The tested results may vary due to environmental conditions and device differences.

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Structure Diagrams





Units: mm

Accessories Map



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