Milesight

NDAA

AI Motorized Pro Bullet Plus Network Camera



Motorized Lens

IP67 + IK10

AI | STARVIS 2 | H.265+ HEVC | AI ISP | Super WDR | 4K

MSense | VCA 2.0 | 3-Axis | 1TB Storage | PoE+ | GMST ONVIF

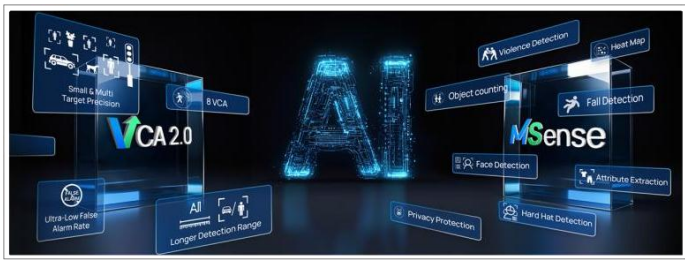
DATASHEET

Key Features

- NDAA Compliance (The fully NDAA-compliant products are well suited for government, defense and a range of projects subject to the NDAA.)
- Precision Imaging Technology (Powered by P-Iris and a high-performance Day-Night Focus Lens to deliver stunning image clarity.)
- 140dB Super WDR (Excellent performance even when the ratio of the luminosity of brightest and darkest is up to 140dB.)
- Up to 4K@60fps (Camera can easily capture fast-moving objects smoothly with no latency.)
- Hybrid Zoom (Combines optical and digital zoom to capture detailed images.)
- 1TB Edge Storage (Supports external microSD/SDHC/SDXC cards up to 1TB for ultra-large on-device storage.)
- Versatile Interfaces (Integrates DC 10V~28V power, PoE+, audio, and alarm interfaces neatly within the base, making it adaptable to various environments.)

Smarter Detection, Greater Accuracy

Focused on person and vehicle classification using deep learning, the full suite of AI VCA 2.0 delivers ultra-low false alarm rates, supports longer-range detection, and ensures robust physical security. Meanwhile, MSense is purpose-built to address diverse vertical applications, delivering tailored intelligence and enhanced adaptability.



Superior Low-light Performance

Equipped with a Sony STARVIS 2, 1/1.8" large sensor and Day-Night Focus Lens, the camera delivers ultra-clear, superior images down to 0.0008Lux@F1.2 (Color). Powered by AI ISP, it further enhances image quality by reducing noise and improving clarity in the darkest environments.



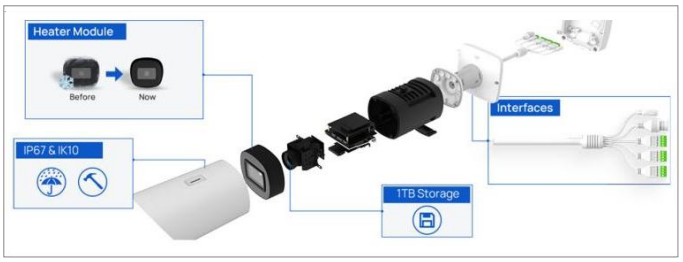
Crystal-Clear Video Streaming

Delivers 4K ultra-high-definition resolution at up to 60fps, and supports Digital Image Stabilization (DIS) for smooth, stable video. Quad-Stream reduces bandwidth and storage usage while dedicating each stream for recording, live view, mobile access, or AI processing.



Rugged Industrial Design

With a compact structure, the camera integrates an all-in-one junction box, multiple interfaces, built-in lens heater, IP67/IK10 protection, and up to 1TB SD card storage, delivering effortless installation, reliable durability, and flexible performance in a rugged structure.



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	Model	MS-C4466-RFIPG1 (4MP)
Camera	Image Sensor	1/1.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.001Lux@F1.2, B/W: 0Lux with IR on
	WDR	140dB Super WDR
	Shutter Time	1/100000s~1s
	DORI Distance	D: 69.3~149m O: 27.3~58.7 R: 13.6~29.3m I: 6.9~14.7m
	Day/Night Mode	Day / Night / Auto / Customize / Schedule
	S/N	>55dB
Illuminator	Illuminator Number	6
	IR Wave Length	850nm
	Illumination Distance	Up to 80m
	Illuminator Control	Auto / Manual
Lens	Lens	Motorized 2.8mm~12mm@F1.2
	Field of View	H114.5°~H45°/ D129.4° ~ D54.5° /V58.8° ~ V26.7°
	Close Focus Distance	W: 1m, T: 1.5m
	Camera Angle Adjustment	Pan: 0° ~ 360°, Tilt: 0° ~ 90°, Rotation: 0° ~ 360°
	Mount	Φ17
	Focus Control	Auto/Manual
	Aperture	Max.F1.2
	Iris Type	P-Iris
	Iris Control	Auto, Manual
Video	Max. Image Resolution	2688x1520
	Primary Stream	60Hz: 60fps@(2688×1520, 2304×1296, 1920×1080, 1280×720) 50Hz: 50fps@(2688×1520, 2304×1296, 1920×1080, 1280×720)
	Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360), 50Hz: 50fps@(704x576, 640x480, 640x360)
	Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360)
	Quaternary Stream	60Hz: 10fps@(1280x720), 30fps@(704x576, 640x480, 640x360) 50Hz: 10fps@(1280x720), 25fps@(704x576, 640x480, 640x360)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG
	Video Bit Rate	16Kbps~10240Kbps

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Image	AI ISP	NA
	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)
	ROI	Up to 8 Areas
	Image Setting	Brightness/Contrast/Saturation/Sharpness
	Image Rotation	Off, Rotating 180°, Flip Horizontal, Flip Vertical, Clockwise 90°, Anticlockwise 90°
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, LDC, DIS
	Hybrid Zoom	Up to 32X
Network	Network Storage	NAS (Support NFS, SMB/CIFS), ANR
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, LLDP, RTSP, 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 Ethernet Port
	Audio I/O	1/1
	Alarm I/O	2/2 (Alarm Output 2: Wet Contact, 10mA 12V DC)
Audio	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
	Attribute Extraction	Simultaneously detect up to 50 targets and capture humans and vehicles in real time. Recognize attributes including Upper and Lower Clothing Color, Hat, and Vehicle Types (Bicycle, Car, Motorcycle, Bus, Truck, E-scooter).
	Face Detection & Face Attribute Recognition	Detect and capture faces, get real-time snapshots. The attributes include Age, Gender, Glasses, Mask and Cap.
	Object Counting & Report	Count the number of objects crossing the line, optionally human and vehicle. 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
	Hard Hat Detection	Detect whether individuals are wearing safety hats. Trigger an alarm when a person is identified without a hard hat.
	Privacy Protection	Automatically detect faces or human bodies in the video stream and overlay mosaic effects. Supported on Primary Stream/Secondary Stream, Compatible with H.265/H.264 formats.
	Fall Detection	Detect a person's fall and trigger an alarm to alert others for timely assistance.
	Violence Detection	Identify violent behavior and trigger an alarm to alert others to intervene or prevent the action.

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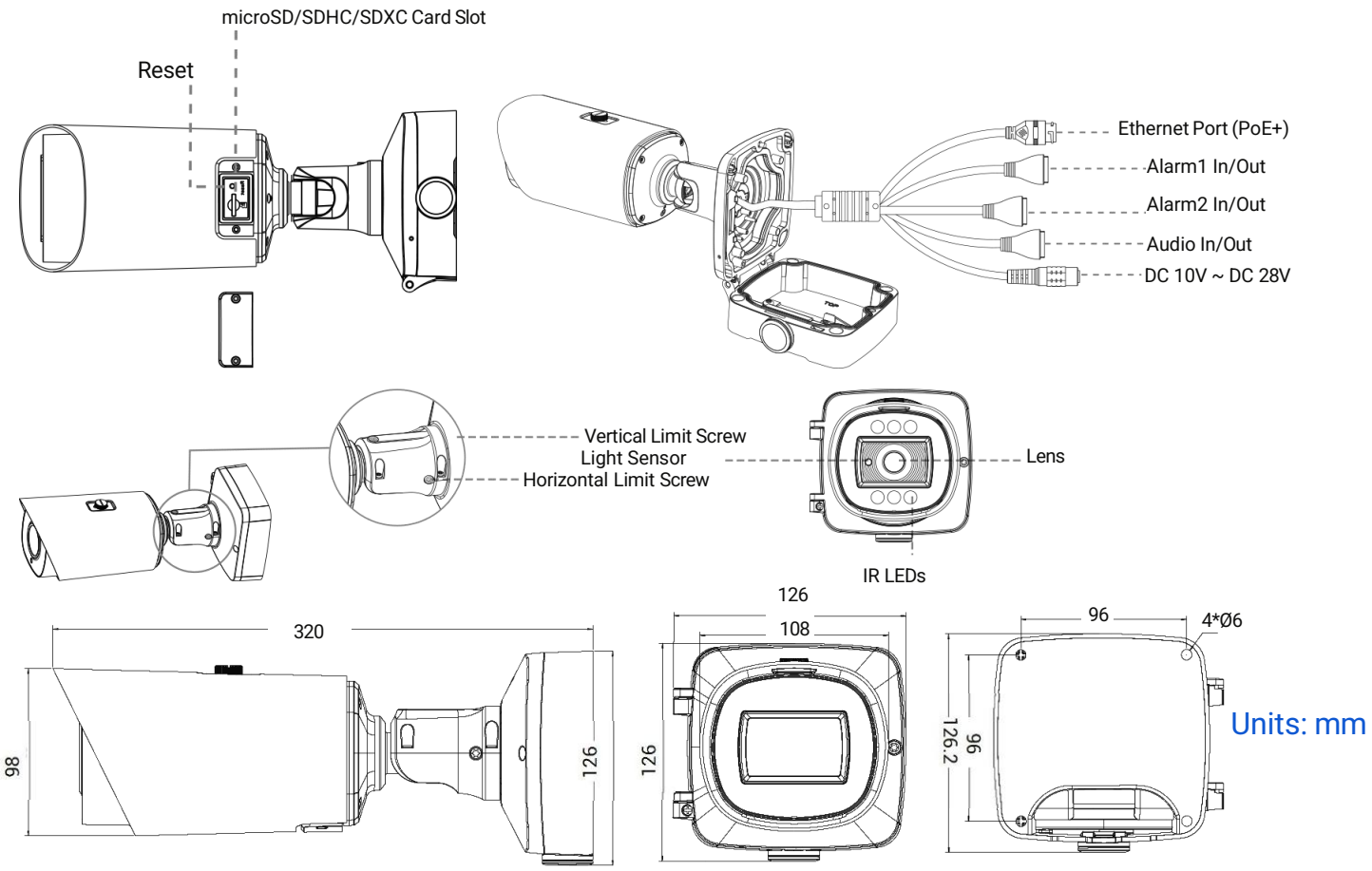


Event	One-Click Disarm	Support
	Basic Event	Motion Detection, Tamper Detection, Audio Alarm, External Input, External Output etc.
	Exception	Network Disconnection, IP Address Conflict, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No SD Card, etc.
	Event Action	FTP Upload Record, SMTP Upload Record, SD Card Record, Snapshot, External Output, Play Audio, SIP Phone, HTTP Notification, etc.
System	Watermark	Support
	Storage	Support Micro SD/SDHC/SDXC Card Local Storage, up to 1TB
	SIP/VoIP Support	Yes, Voice & Video-over-IP
	System Compatibility	ONVIF Profile G & M & S & T, One API
General	Working Temperature	-40℃~60℃
	Working Humidity	0~95% RH (Non-condensing)
	Power Supply	PoE+ (802.3at) / DC 10V~DC 28V
	Power Consumption	Min.: 3.4W (DC), 4.1W (PoE+)
		24 Hour Average: 8W (DC), 9.7W (PoE+)
		Max.: 13.8W (DC), 16.2W (PoE+)
	Surge Protection	6KV
	Net Weight	Approx. 1.6kg
	Gross Weight	Approx. 2.4kg
	Dimensions	320mm X 134mm X 126mm
	Warranty	3 Years / 5 Years (Optional)
Certifications	EMC	CE-EMC (EN 55032, EN 55035, EN 50130-4), FCC (Part 15B)
	Safety	UL: UL 62368-1, 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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Units: mm

Accessories Support





A02 V2 Pole Mount



A03 External Corner Bracket