Milesight

NDAA

AI Vandal-proof Mini Bullet Network Camera



IP67

IK10

AI | H.265+ HEVC | Super WDR | 3-Axis | Privacy Masking | SD XC | GMST ONVIF | PoE | Weather-proof | Vandal-proof

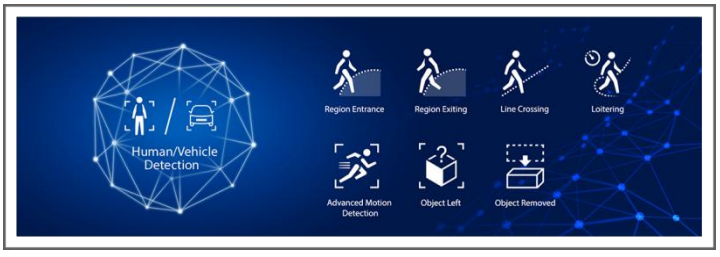
DATASHEET

KEY FEATURES

- NDAA Compliance (The fully NDAA-compliant products are well suited for government, defense and a range of projects subject to the NDAA.)
- Powerful IR LEDs (Equipped with 3rd generation dot matrix IR LEDs, guaranteeing excellent image quality, long lifespan and energy efficiency.)
- Advanced Functions (Boasting to support various advanced functions such as HLC, Defog, ROI.)
- 1TB (Supporting ultra-large external microSD/SDHC/SDXC card storage up to 1TB.)
- 0.005Lux Ultra Low Light (Deliver high detailed color images even in low light environment reaching 0.005Lux.)
- Smart Stream (Bandwidth, storage and bit rate are saved with Smart Stream On, eg, H.265+ saves 70%~80% bandwidth that of H.264.)

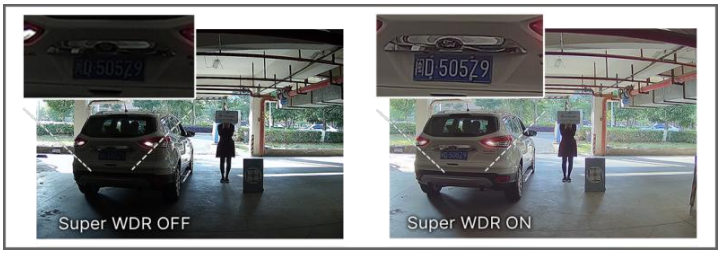
AI Video Analytics

The AI Camera Series can intelligently filter objects to focus on human and vehicle detection in multiple events such as Region Entrance, Region Exiting, Loitering, Advanced Motion Detection, etc.



120dB Super WDR

Sensor-based WDR technology allows the camera to record greater scene details with true color reproduction even under the extreme back light and high contrast conditions. The ratio that the brightest light signal values divided by the darkest light signal values is up to 120dB.



4K Video Viewing Experience

The camera performs well in catching detailed image with 4K HD resolution regardless of the moving speed.



IP67&IK10

Supporting IP67-rated weather proofing and IK10-rated vandal proof which are the leading level of the industry, the camera is well protected against adverse impact to ensure the performance.



AI Vandal-proof Mini Bullet Network Camera



	Model	MS-C2964-PD2 (2MP)
Camera	Image Sensor	1/2.9" Progressive Scan CMOS
	Min. Illumination	Color: 0.005Lux@F1.6, B/W: 0Lux with IR on
	WDR	120dB Super WDR
	Lens	2.8mm/4mm@F1.6
	Mount	M12
	Field of View	H102.6°/D121.4°/V56.5°(2.8mm) H85°/D99°/V46.1°(4mm)
	Shutter Time	1/100000s~1s
	IR Distance	Up to 30m
	Day/Night Mode	Day/Night/Auto/Customize/Schedule
	S/N	>55dB
Video	Max.Image Resolution	1920x1080
	Primary Stream	60Hz: 30fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(1920x1080, 1280x960, 1280x720, 704x576)
	Secondary Stream	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192)
	Tertiary Stream	60Hz: 30fps@(1280x720, 704x576, 640x480, 640x360, 352x288, 320x240, 320x192) 50Hz: 25fps@(1280x720, 704x576, 640x480, 640x360, 352x288, 320x240, 320x192)
	Video Compression	Primary Stream & Tertiary Stream: H.265+/H.265(HEVC)/H.264+/H.264 Secondary Stream: H.265+/H.265(HEVC)/H.264+/H.264/MJPEG
	Video Bit Rate	16Kbps~16Mbps (CBR/VBR Adjustable)
Image	Privacy Masking	Up to 4 Areas
	ROI	Up to 8 Areas
	Image Setting	Brightness/Contrast/Saturation/Sharpness
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur
Interface	Ethernet	1*RJ45 10M/100M Ethernet Port
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, SIP, LLDP, VPN, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, TLS 1.2

AI Vandal-proof Mini Bullet Network Camera



Intelligent Analytics	Video Analysis	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. Support regional people counting for up to 4 detection areas.
Event	Basic Event	Motion Detection, Tamper Detection
	Exception	Network Disconnection, IP Address Filtering, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No SD Card
	Event Action	FTP Upload Record, SMTP Upload Record, SD Card Record, Snapshot, SIP Phone, HTTP Notification, etc.
System	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB
	SIP/VoIP Support	Yes, Voice & Video-over-IP
	System Compatibility	ONVIF Profile G & S & T & M, API
General	Working Temperature	-40℃~60℃
	Working Humidity	0~90% (Non-condensing)
	Power Supply	PoE (802.3af)
	Power Consumption	2.5W MIN, 4W MAX (With IR on)
	Housing	Up to IP67-rated for Weather-resistant Performance / Vandal-proof IK10-rated Metal Housing
	Weight	Approx. 610g (Junction Box Version) / Approx. 450g (Cable Out Version)
	Dimensions	97mmX74mmX180mm (Junction Box Version) / 64mmX64mmX160mm (Cable Out Version)
	Warranty	3 Years / 5 Years (Optional)

AI Vandal-proof Mini Bullet Network Camera



	Model	MS-C5464-PD2 (5MP)	MS-C8164-PD2 (4K)
Camera	Image Sensor	1/2.65″ Progressive Scan CMOS	1/2.7″ Progressive Scan CMOS
	Min. Illumination	Color: 0.008Lux@F1.6, B/W: 0Lux with IR on	Color: 0.012Lux@F1.6, B/W: 0Lux with IR on
	WDR	120dB Super WDR	
	Lens	2.8mm@F1.6	
	Mount	M12	
	Field of View	H112.1°/D127.4°/V61.2°(2.8mm) H92.7°/D106.9°/V48.1°(4mm)	H106.8°/D131.2°/V60.3°(2.8mm)
	Shutter Time	1/100000s~1s	
	IR Distance	Up to 30m	
	Day/Night Mode	Day/Night/Auto/Customize/Schedule	
	S/N	>55dB	
Video	Max.Image Resolution	2960x1664	3840x2160
	Primary Stream	60Hz: 30fps@(2960x1664, 2688x1520, 1920x1080, 1280x720, 704x576) 50Hz: 25fps@(2960x1664, 2688x1520, 1920x1080, 1280x720, 704x576)	60Hz/50Hz: 25fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576)
	Secondary Stream	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192)	60Hz/50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192)
	Tertiary Stream	60Hz: 30fps@(1280x720, 704x576, 640x480, 640x360, 352x288, 320x240, 320x192) 50Hz: 25fps@(1280x720, 704x576, 640x480, 640x360, 352x288, 320x240, 320x192)	60Hz/50Hz: 25fps@(1280x720, 704x576, 640x480, 640x360, 352x288, 320x240, 320x192)
	Video Compression	Primary Stream & Tertiary Stream: H.265+/H.265(HEVC)/H.264+/H.264 Secondary Stream: H.265+/H.265(HEVC)/H.264+/H.264/MJPEG	
	Video Bit Rate	16Kbps~16Mbps (CBR/VBR Adjustable)	
Image	Privacy Masking	Up to 4 areas	
	ROI	Up to 8 areas	
	Image Setting	Brightness/Contrast/Saturation/Sharpness	
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur	
Interface	Ethernet	1*RJ45 10M/100M Ethernet Port	
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, SIP, LLDP, VPN, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, TLS 1.2	

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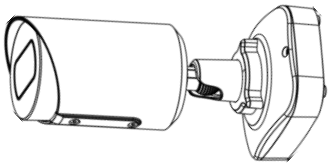


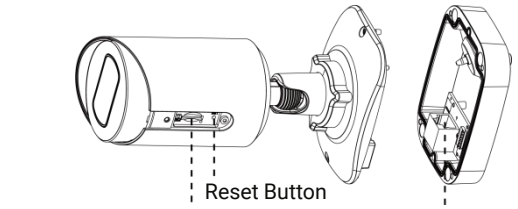
Intelligent Analytics	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Line Crossing, Loitering, Object Left, Object Removed	
	Object Counting & Report	Count the number of objects crossing the line,optionally human and vehicle. Support regional people counting for up to 4 detection areas.	
Event	Basic Event	Motion Detection, Tamper Detection	
	Exception	Network Disconnection, IP Address Filtering, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No SD Card	
	Event Action	FTP Upload Record, SMTP Upload Record, SD Card Record, Snapshot, SIP Phone, HTTP Notification, etc.	
System	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB	
	SIP/VoIP Support	Yes, Voice & Video-over-IP	
	System Compatibility	ONVIF Profile G & S & T & M, API	
General	Working Temperature	-40℃~60℃	
	Working Humidity	0~90%(Non-condensing)	
	Power Supply	PoE (802.3af)	
	Power Consumption	2.4W MIN, 4W MAX (With IR on)	3W MIN, 4.6W MAX (With IR on)
	Housing	Up to IP67-rated for Weather-resistant Performance / Vandal-proof IK10-rated Metal Housing	
	Weight	Approx. 610g (Junction Box Version) / Approx. 450g (Cable Out Version)	
	Dimensions	97mmX74mmX180mm (Junction Box Version) / Φ64mmX160mm (Cable Out Version)	
	Warranty	3 Years / 5 Years (Optional)	

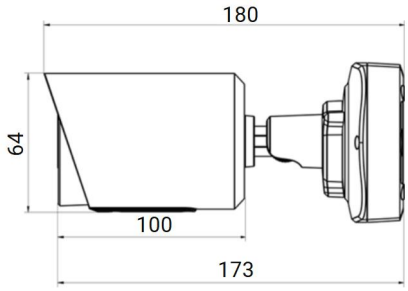


Structure Diagrams

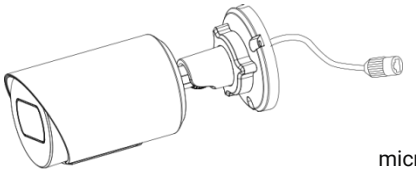
Junction Box Version

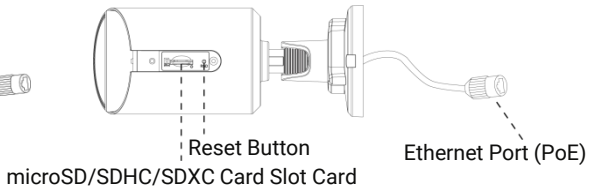


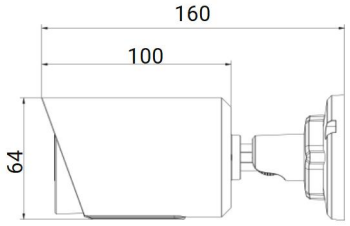




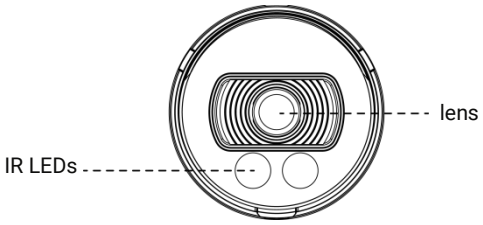
Cable Out Version

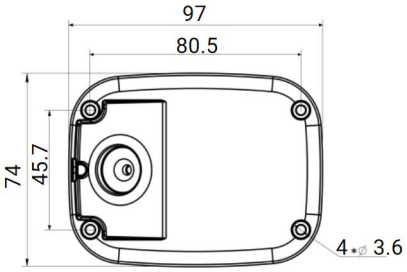


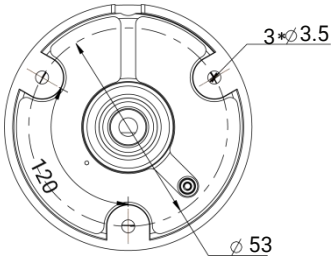




Units: mm

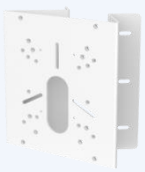






Accessories Support





A03 External Corner Bracket



A01 V3 Pole Mount