Milesight

AI Weather-proof Mini Bullet Network Camera

NDAA

IP67

IK10

DATASHEET

AI | H.265+ HEVC | Starlight | Super WDR | IR | 3-Axis

Privacy Masking | SDXC | GMST OnVIF | POE | Weather-proof | Vandal-proof
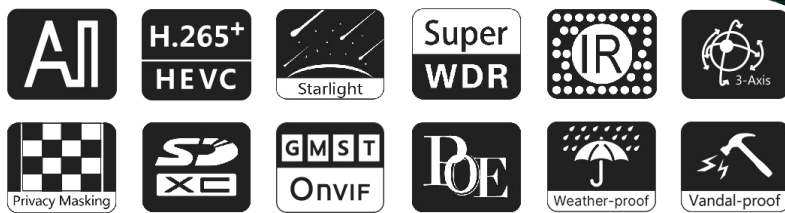
Key Features

▶ 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.)
▶ 140dB Super WDR (Excellent performance even when the ratio of the luminosity of brightest and darkest is up to 140dB.)
▶ Advanced Functions (Boasting to support various advanced functions such as HLC, ROI.)
▶ 1TB (Supporting ultra-large external microSD/SDHC/SDXC card storage up to 1TB.)
▶ Adjustable 3-Axis Bracket (Providing a robust mounting platform for angle adjustments on a 3-axis plane.)
▶ 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

● 8 intelligent VCA modes powered by AI engine, which can intelligently filter objects to focus on human and vehicle detection.
● Object Counting technology provides high accuracy and real-time data based on AI algorithm with statistic reports, optionally human and vehicle.
● Face Detection function detects human faces in the monitoring scene and captures the snapshots, which greatly enhances the monitoring efficiency.

0.005Lux Ultra Low-lightt

The starlight camera is able to deliver high detailed color images even in low light environment reaching 0.005Lux(Color) or 0Lux(B/W), and near infrared light environments without any supplementary lighting.
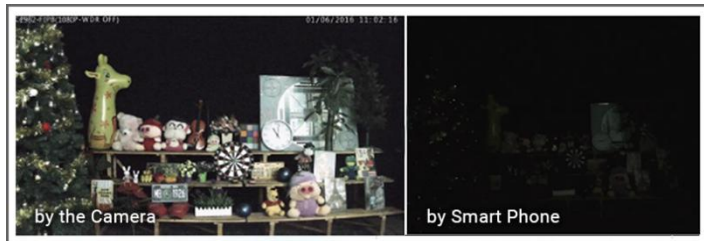
30fps@4K

Providing 4K HD resolution with frame rate of 30fps, the camera performs well in catching detailed image 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.

	Model	MS-C2963-R(T)PE (2MP)	MS-C5363-PE (5MP)	MS-C8163-PE (4K)
Camera	Image Sensor	1/2.8" Progressive Scan CMOS		
	Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on	Color: 0.008Lux@F1.6 B/W: 0Lux with IR on	Color: 0.012Lux@F1.6 B/W: 0Lux with IR on
	WDR	140dB Super WDR	120dB Super WDR	
	Lens	4mm/2.8mm/6mm@F1.6		
	Mount	M12		
	Field of View	H91°/D106°/V50°(4mm) H111°/D128°/V61°(2.8mm) H55°/D63°/V32°(6mm)	H86°/D108°/V63°(4mm) H105°/D131°/V78°(2.8mm) H52°/D63°/V40°(6mm)	H91°/D106°/V50°(4mm) H110°/D126°/V60°(2.8mm) H55°/D63°/V32°(6mm)
	Shutter Time	1/100000s~1s		
	DORI Distance	D: 42m O: 16m R: 8.5m l: 4.5m (2.8mm) D: 51.5m O: 20m R: 10.5m l: 5.5m (4mm) D: 72m O: 33m R: 16.5m l: 8.5m (6mm)	D: 52.5m O: 24m R: 13m l: 6.5m (2.8mm) D: 94m O: 46m R: 18m l: 8m (4mm) D: 134.5m O: 52.5m R: 26m l: 12.5m (6mm)	D: 90m O: 36m R: 17m l: 7.5m (2.8mm) D: 85m O: 49.5m R: 24m l: 11m (4mm) D: 177m O: 72.5m R: 35m l: 17m (6mm)
	IR Distance	Up to 50m		
	Day/Night Mode	Day/Night/Auto/Customize/Schedule		
	S/N	>55dB		
Video	Max. Image Resolution	1920x1080	2592x1944	3840x2160
	Primary Stream	60Hz: 90fps@(1920x1080)**(Optional for T Series)**, 60fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 90fps@(1920x1080)**(Optional for T Series)**, 50fps@(1920x1080, 1280x960, 1280x720, 704x576)	60Hz: 30fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 60fps@(1920x1080, 1280x960, 1280x720) 50Hz: 25fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 50fps@(1920x1080, 1280x960, 1280x720)	60Hz: 30fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576)
	Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240)	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240)	
	Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)	60Hz: 30fps@(2048x1536, 1920x1080, 1600x1200, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(2048x1536, 1920x1080, 1600x1200, 1280x720, 704x576, 640x480, 640x360, 320x240)	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG		
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)		

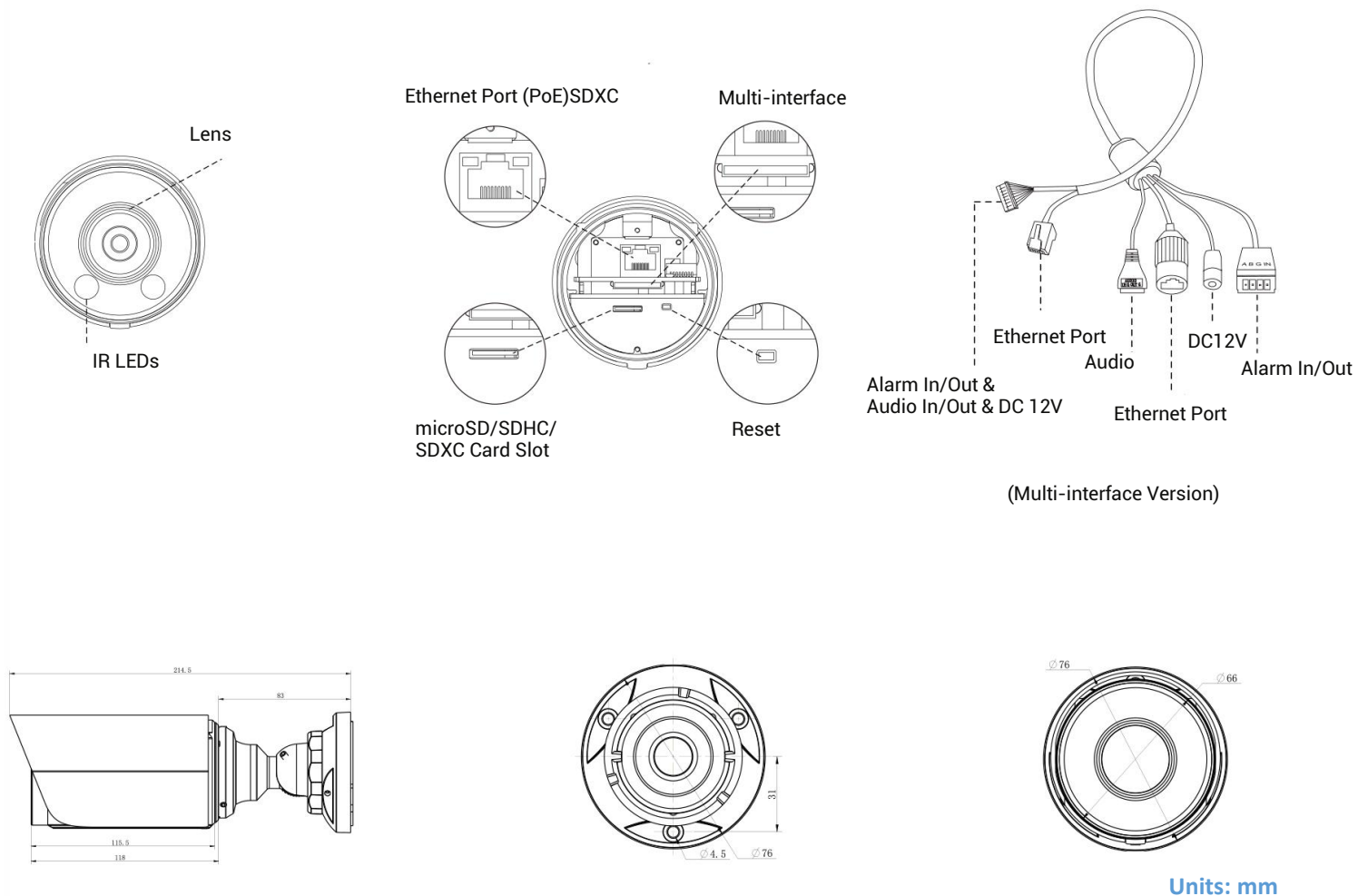|		
Image	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)
	ROI	Up to 8 areas
	Image Setting	Brightness/Contrast/Saturation/Sharpness
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, Corridor Mode, LDC
Interface	Ethernet	1*RJ45 10M/100M Ethernet Port
	Audio I/O	1/1 (Multi-interface Version)
	Alarm I/O	1/1 (Multi-interface Version)
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, 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
Intelligent Analytics	Video Analysis	VCA 2.0: Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Line Crossing, Loitering, Object Left, Object Removed
	Face Detection&Face Attribute Recognition	Detect and capture faces, get real-time snapshots; The attributes include Age, Gender, Glasses, Mask and Cap; Support Faces Privacy Mode, the detected faces in the face detection area will be mosaic automatically.
	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
Event	Basic Event	Motion Detection, Tamper Detection, Network Disconnection, etc.; Motion Detection, Tamper Detection, Network Disconnection, External Input, Audio Alarm, etc. (Multi-interface Version)
	Exception	Network Disconnection, IP Address Filtering, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No SD Card, Watermark
	Event Action	FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.; FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc. (Multi-interface Version)
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 & M & S & T, API
General	Working Temperature	-40℃~60℃
	Working Humidity	0~95%(Non-condensing)
	Power Supply	PoE (802.3af); PoE (802.3af) / DC 12V±10% (Multi-interface Version)

General	Power Consumption	Min.: 2.5W (DC 12V), 3.2W(PoE) Max.: 7.3W (DC 12V), 9W(PoE)	Min.: 3W (DC 12V), 4W (PoE) Max.: 7.5W (DC 12V), 9W (PoE)	Min.: 3.7W (DC 12V), 4.7W (PoE) Max.: 8.3W (DC 12V), 10.2W (PoE)
	Weight	750g		
	Dimensions	Φ76mmX214.5mm		
	Warranty	3/5 Years		
Certifications	EMC	CE-EMC (EN 55032, EN 55035), FCC (PART 15B)		
	Safety	CE-LVD (EN IEC 62368-1)		
	Environment	CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU)		
	Protection	IP67, IK10		

Structure Diagrams

Lens

IR LEDs

Ethernet Port (PoE)SDXC

Multi-interface

microSD/SDHC/
SDXC Card Slot

Reset

Ethernet Port
Audio

DC12V

Alarm In/Out

Alarm In/Out &
Audio In/Out & DC 12V

Ethernet Port

(Multi-interface Version)

214.5

83

115.5

118

31

∅4.5 ∅76

∅76 ∅66

Units: mm

A01 V3 Pole Mount

Weight: 625g

Dimensions: 140*136*46mm

A03 External Corner Bracket

Weight: 900g

Dimensions: 170*152.5*76.3mm

A63 Junction Box

Weight: 620g

Dimensions: 134*126*40mm