

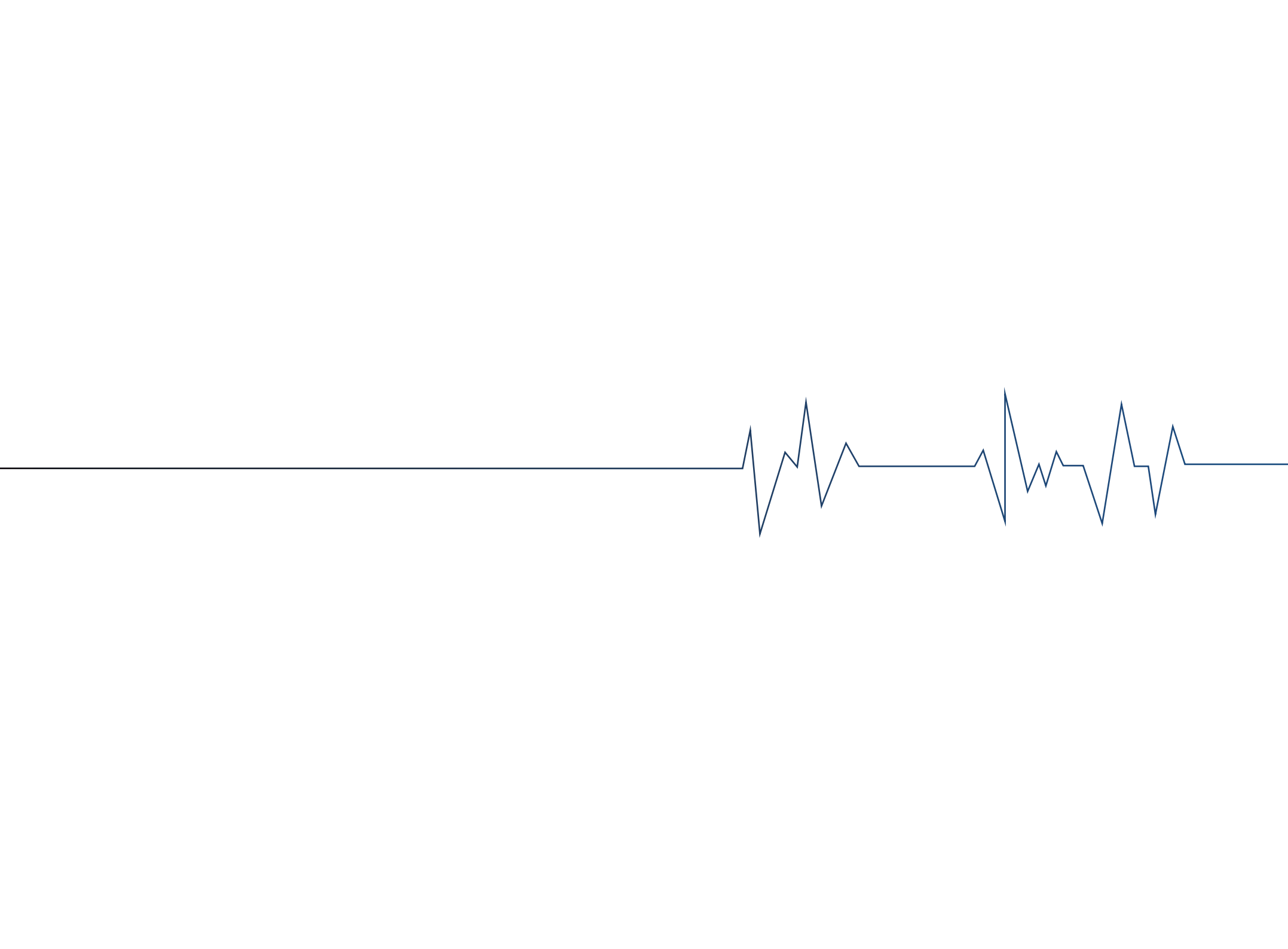


# MILESIGHT NDAA COMPLIANT PRODUCT COMPARISON GUIDE

▪ NDAA Compliant Video Surveillance



# NDAA



■ **MAKE SENSING MATTER** ■



# About Milesight

Milesight is a fast-growing high-tech company delivering smart IoT and video surveillance products with a focus on IoT technologies, including Artificial Intelligence, 5G and LoRaWAN®, since 2011. With improved sensing capability and advanced IoT insights, we help customers worldwide optimize their business operation in a more efficient and sustainable way. In collaboration with a global network of distributors and system integrators, we are committed to building open ecosystems and accelerating IoT strategies to the next level.

## Quality

Outstanding product quality and unique design

## Support

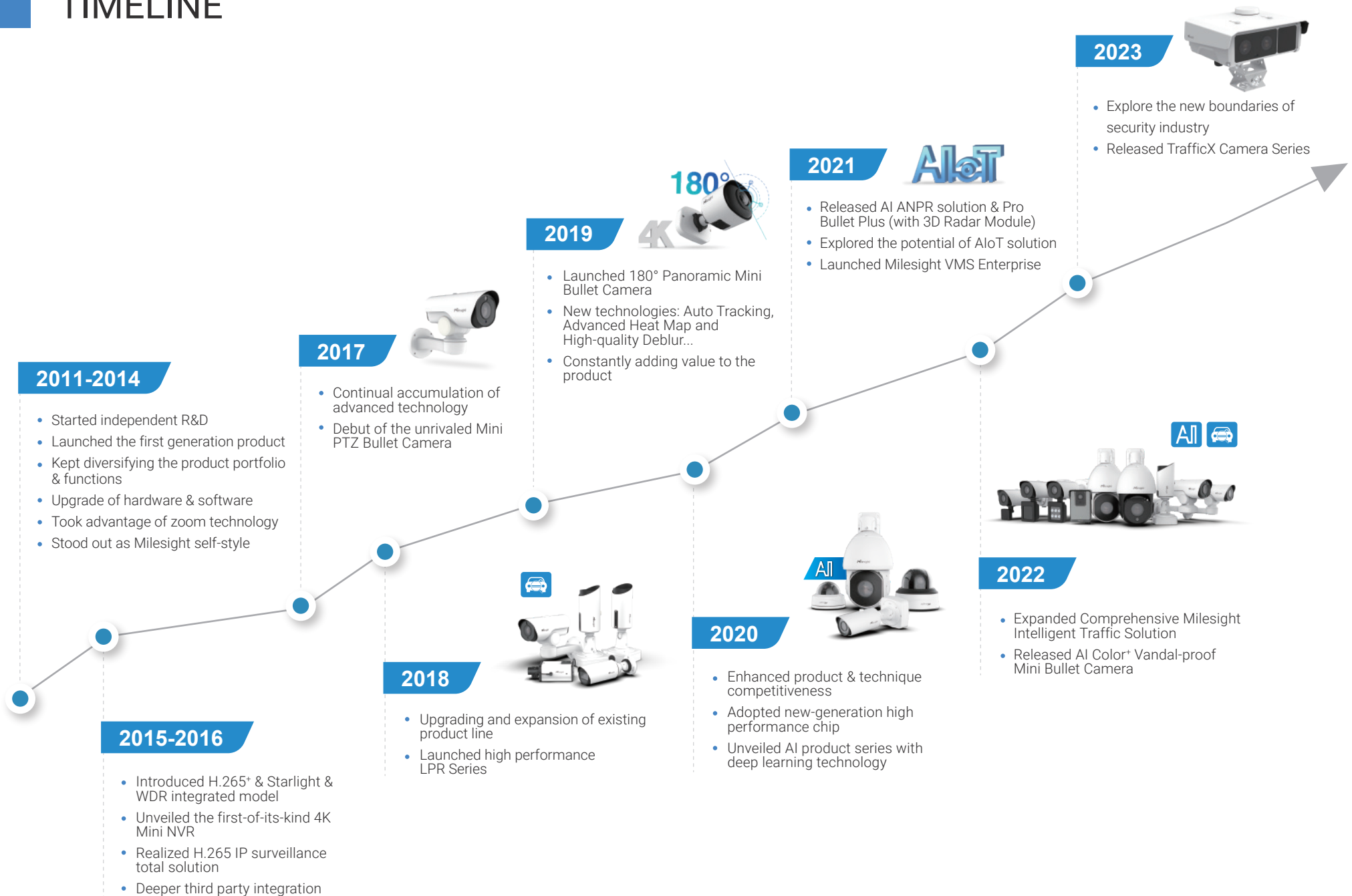
Timely, efficient and diverse support

## Innovation

Independent R&D team guarantees innovative technologies



# TIMELINE



# NAMING CONVENTION

## Video Surveillance Series

### Video Surveillance Camera

[ Model ]: MS-C2966-R(T)F(I)PE --- AI Motorized Pro Bullet Plus Camera

MS-C	2	9	66-	R	F	I	PE
Resolution	Sensor	Camera Type	Advanced Features				
2 - 2MP 4 - 4MP 5 - 5MP 8 - 4K/8MP 9 - 12MP	1 - 4K 2 - 4K (1/1.8") 3 - 5MP 4 - 4MP (1/1.8") 5 - 4MP 6 - 12MP 8 - 2MP (1/2") 9 - 2MP	41 - Speed Dome Camera 52 - Pro Box Plus Camera 67 - PTZ Bullet Plus Camera 66 - Pro Bullet Plus Camera 65 - 180° Panoramic Mini Bullet Camera 64 - Vandal-proof Mini Bullet Camera 63 - Weather-proof Mini Bullet Camera 62 - Pro Bullet Camera 61 - PTZ Bullet Camera 77 - Dual-sensor 180° Panoramic Camera 76 - 180° Panoramic Mini Dome Camera 75 - Weather-proof Mini Dome Camera 74 - Fisheye Camera 73 - Vandal-proof Mini Dome Camera 72 - Pro Dome Camera 71 - PTZ Dome Camera 83 - IR Mini Dome Camera	T - High Frame Rate (90fps/100fps) R - High Frame Rate (60fps) S - 20fps@4K Series X - Magnification of the lens e.g.: X42 - 42X AF lens F - Motorized Vari-focal Lens I - P-Iris Supported U - Full-color Supported G - 5G Supported O - IoT Supported P - PoE Supported A/C/D/E - AI Platform				

**Note:** In a sequence from top to bottom

### Network Video Recorder

[ Model ]: MS-N7032-UPH --- 32-channel 4K H.265 PoE NVR

MS-N	7	032-	U	P	H
1 - 2*HDD (2.5") or 1*HDD (3.5") 5 - 2*HDD (3.5") 7 - 4*HDD (3.5") 8 - 8*HDD (3.5")	004 - 4-CH 008 - 8-CH 016 - 16-CH 048 - 48-CH 032 - 32-CH 064 - 64-CH	U - 4K	P - PoE	C/E/H/G - H.265 Compression	

[ Model ]: VE1208-S --- Enterprise NVR Storage Server with 128-CH License, 12 Disk Slots.

VE0602-A --- Enterprise NVR with 32-CH License, 6 Disk Slots.

VE	12	08-	S
Enterprise NVR	Disk Slot	Camera License	Server Chassis
	04 - 16* (2.5" or 3.5") slots 06 - 6* (2.5" or 3.5") Slots 12 - 12*3.5" Slots	01 - 16CH 02 - 32CH 04 - 64CH 08 - 128-CH	A - Enterprise NVR S - Enterprise NVR Storage Server

## VMS Product Line

[ Model ]: MC-008 --- VMS Enterprise 8-CH Camera Access

<b>M</b>	<b>C-</b>	<b>008</b>
Milesight	License Name	Channel
	C - Camera Access L - ANPR	008 - 8CH Camera Access 001 - 1CH ANPR

[ Model ]: BX208-A --- Milesight 8-CH AI Box

<b>BX</b>	<b>2</b>	<b>08-</b>	<b>A</b>
BX - Box	2 - Platform	08 - 8-CH	A - All kinds of objects (Face, Human, Vehicle, Non-Motor Vehicle)

## PoE Switch

[ Model ]: MS-S0224-GL --- Milesight 4-port PoE Switch

<b>MS-S</b>	<b>02</b>	<b>24-</b>	<b>G</b>	<b>L</b>
	02 - 2*Uplink Ports 04 - 4*Uplink Ports	04 - 4*PoE Ports 08 - 8*PoE Ports 16 - 16*PoE Ports 24 - 24*PoE Ports	E - 10/100Mbps Uplink Port G - Gigabit Uplink Port	F - Optical Fiber Port (SFP) L - Extend Mode

# NAMING CONVENTION

## Intelligent Traffic Series

### Entrance & Exit Management

[ Model ]: MS-C2972-RFLPE --- Entrance & Exit AI LPR Pro Dome Camera



<b>MS-C</b>	<b>2</b>	<b>9</b>	<b>72-</b>	<b>R</b>	<b>F</b>	<b>L</b>	<b>PE</b>
Series	Resolution	Sensor	Camera Type	Advanced Features			
Entrance & Exit Camera	2 - 2MP	9 - 2MP	64 - Vandal-proof Mini Bullet Camera 66 - Pro Bullet Plus Camera 72 - Pro Dome Camera	R - High Frame Rate (60fps)	F - Motorized Vari-focal Lens	L - LPR Supported	W - Supplement Light Supported P - PoE Supported C/E - AI Platform

### Road Traffic Management

[ Model ]: TS2866-X4TPE --- AI Road Traffic Pro Bullet Plus Camera  
TS2866-FPC/P --- AI Road Traffic Parking Detection Pro Bullet Plus Camera



<b>TS</b>	<b>2</b>	<b>8</b>	<b>66-</b>	<b>X4</b>	<b>T</b>	<b>P</b>	<b>E</b>
Series	Resolution	Sensor	Camera Type	Advanced Features			
Traffic Sensing Camera	2 - 2MP 4 - 4MP 5 - 5MP 8 - 4K	2 - 4K (1/1.8") 3 - 5MP 4 - 4MP (1/1.8") 8 - 2MP (1/2") 9 - 2MP	41 - Speed Dome Camera 61 - PTZ Bullet Camera 66 - Pro Bullet Plus Camera 67 - PTZ Bullet Plus Camera	T - High Frame Rate (100fps/90fps)	X - Magnification of the lens e.g.: 36X AF Lens	F - Motorized Vari-focal Lens	V - Radar Supported W - Supplement Light Supported G - 5G Supported P - PoE Supported C/E - AI Platform

[ Model ]: TS5510-GH/LTE-EU --- TrafficX Camera



<b>TS</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>-</b>	<b>GH</b>	<b>/</b>	<b>LTE-EU</b>
Series	Resolution	Resolution	Camera Type	Application Scenarios		Advanced Features		Cellular Module
TrafficX Camera	5 - 5MP	5 - 5MP	(55)10 - TrafficX Camera (55)11 - TrafficX Enforcement Camera	0 - LPR Application 1 - Traffic Enforcement Application		G - Global Shutter H - AI Platform		4G Version: LTE - NA - North America LTE - EU - Europe, the Middle East and Africa LTE - AU - Latin America, Australia and New Zealand 5G - 5G Version

[ Model ]: SC211-NA --- 4G Solar-powered Traffic Sensing Camera

<b>SC</b>	<b>2</b>	<b>1</b>	<b>1-</b>	<b>NA</b>
Series	Major Application Scenarios	Core Technology	Camera Type	4G Module Supported Region
Sensing Camera	2 - Intelligent Traffic	1- Frame-based AI	(2_)1 - 4G Solar-powered Traffic Sensing Camera	NA - North America EU - Europe, the Middle East and Africa AU - Latin America, Australia and New Zealand



**Parking Management**

[ Model ]: PMC8266-FPC --- AI Outdoor Parking Management Pro Bullet Plus Camera

<b>PMC</b>	<b>8</b>	<b>2</b>	<b>66-</b>	<b>F P C</b>
Series	Resolution	Sensor	Camera Type	Advanced Features
Parking Management Camera	8 - 4K	2 - 4K (1/1.8")	66 - Pro Bullet Plus Camera	F - Motorized Vari-focal Lens P - PoE Supported C - AI Platform



[ Model ]: PM3322-E --- Indoor Parking Guidance Camera

<b>PM</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>E</b>
Series	Resolution	Resolution	Camera Type	Application Scenarios		Advanced Features
Parking Management	3 - 3MP	3 - 3MP	(33) 2 - Indoor Parking Guidance Camera	2 - Parking Application		E - AI Platform





# MILESIGHT AI PRODUCTS



# AI Products

## AI Camera Series ▼

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## AI COLOR+ CAMERA SERIES














### AI Color+ Series

- AI Deep Learning
- Full-color Image Performance
- F1.0 Super Aperture
- 0.001Lux Starlight
- 120dB Super WDR
- 30m Illumination Distance
- 4K Resolution
- Point-contact Power Supply
- 3-Axis Mechanical Design



# COLOR+

		AI Color+ Vandal-proof Mini Bullet Camera			
		Model	MS-C2964-(R)UPD(2MP)	MS-C5364-UPD(5MP)	MS-C8164-UPD(4K)
Camera	Appearance				
	Image Sensor	1/2.8" Progressive Scan CMOS			
	Min. Illumination	Color: 0.001Lux@F1.0 0Lux with White LED on		Color: 0.002Lux@F1.0 0Lux with White LED on	
	WDR	120dB Super WDR			
	Lens	2.8mm/4mm@F1.0			
	Field of View	H109°/D125°/V61°(2.8mm)	H104°/D129°/V78°(2.8mm) H81°/D100°/V61°(4mm)		H108°/D125°/V60°(2.8mm) H87°/D101°/V49°(4mm)
	Shutter Time	1/100000s~1s			
	Illumination Distance	Up to 30m			
	S/N	>55dB			
Video	Max. Image Resolution	30fps@(1920x1080) 60fps@(1920x1080)(Optional for R Series)		30fps@(2592x1944)	30fps@(3840x2160)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG			
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)			
Network	Ethernet	1*RJ45 10M/100M Ethernet Port			
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL			
Intelligent Analytics	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed			
System	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB			
	Advanced Function	Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur			
	Event Trigger	Motion Detection, Network Disconnection, etc.			
	Event Action	FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.			
General	Working Temperature/ Humidity	-40°C~60°C/0~95%(Non-condensing)			
	Power Supply	PoE (802.3af)			
	Housing	IP67/IK10			
	Dimensions/Weight	97mmX74mmX180mm/610g(Junction Box Version); 64mmX64mmX160mm/450g(Cable Out Version)			










## AI Mini Series






- Ultra Mini Size
- 2MP@60fps, 5MP@30fps, 4K@30fps
- IP67 & IK10
- 0.005Lux Starlight
- 120dB Super WDR
- Smart IR II Technology
- AI Video Analytics
- People Counting
- Advanced Heat Map
- 3-Axis Mechanical Design



## AI MINI CAMERA SERIES





		AI IR Mini Dome Camera				
		Model	MS-C2983-(R)PD(2MP)	MS-C4583-PD(4MP)	MS-C5383-PD(5MP)	MS-C8183-PD(4K)
Camera	Appearance					
	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	120dB Super WDR				
	Lens	2.8mm/4mm/6mm@F1.6				
	Field of View	H111°/D128°/V61°(2.8mm)	H105°/D131°/V78°(2.8mm)	H105°/D131°/V78°(2.8mm)	H110°/D126°/V60°(2.8mm)	
	Shutter Time	1/100000s~1s				
	IR Distance	Up to 20m				
	S/N	>55dB				
Video	Max. Image Resolution	30fps@(1920x1080) 60fps@(1920x1080) (Optional for R Series)	30fps@(2688x1520)	30fps@(2592x1944)	30fps@(3840x2160)	
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG				
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)				
Network	Ethernet	1*RJ45 10M/100M Ethernet Port				
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL				
Audio	Audio Compression	G.711/AAC/G.722/G.726				
	Audio Interface	Built-in Microphone				
Intelligent Analytics	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed				
System	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB				
	Advanced Function	Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur				
	Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, etc.				
	Event Action	FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.				
General	Working Temperature /Humidity	-40 C ~60 C /0~90%(Non-condensing)				
	Power Supply	PoE (802.3af)				
	Housing	N/A				
	Dimensions/Weight	Φ97.8mmX57.9mm/200g				

COLOR SERIES  
MINI SERIES  
PRO SERIES  
PTZ SERIES  
PANORAMIC SERIES  
TRAFFIC SERIES  
NVR SERIES  
POE SWITCH  
SOFTWARE  
ACCESSORIES

		AI Vandal-proof Mini Dome Camera			
Model		MS-C2973-(R)PD(2MP)	MS-C4573-PD(4MP)	MS-C5373-PD(5MP)	MS-C8173-PD(4K)
Camera	Appearance				 
	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	120dB Super WDR			
	Lens	2.8mm/4mm/6mm@F1.6			
	Field of View	H111°/D128°/V61°(2.8mm)	H105°/D131°/V78°(2.8mm)		H110°/D126°/V60°(2.8mm)
	Shutter Time	1/100000s~1s			
	IR Distance	Up to 30m			
	Day&Night	Day/Night/Auto/Customize/Schedule			
	S/N	>55dB			
Video	Max. Image Resolution	30fps@(1920x1080) 60fps@(1920x1080)(Optional for R Series)	30fps@(2688x1520)	30fps@(2592x1944)	30fps@(3840x2160)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG			
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)			
Network	Ethernet	1*RJ45 10M/100M Ethernet Port			
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL			
Audio	Audio Compression	G.711/AAC/G.722/G.726			
	Audio I/O	Built-in Microphone; 1/1 (Multi-interface Version)			
Intelligent Analytics	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed			
System	Alarm I/O	1/1 (Multi-interface Version)			
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB			
	Advanced Function	Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur			
	Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, etc.; Motion Detection, Network Disconnection, External Input, Audio Alarm, etc. (Multi-interface Version)			
	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)			
General	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)			
	Power Supply	PoE (802.3af); PoE (802.3af) / DC 12V±10% (Multi-interface Version)			
	Housing	IP67/IK10			
	Dimensions/Weight	118.5mmX110.8mmX65mm/500g			



# AI MINI CAMERA SERIES

		AI Weather-proof Mini Dome Camera			
		MS-C2975-(R)PD(2MP)	MS-C4575-PD(4MP)	MS-C5375-PD(5MP)	MS-C8175-PD(4K)
Camera	Appearance				
	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	120dB Super WDR			
	Lens	2.8mm/4mm/6mm@F1.6			
	Field of View	H111°/D128°/V61°(2.8mm)	H105°/D131°/V78°(2.8mm)		H110°/D126°/V60°(2.8mm)
	Shutter Time	1/100000s~1s			
	IR Distance	Up to 25m			
	S/N	>55dB			
Video	Max. Image Resolution	30fps@(1920x1080) 60fps@(1920x1080)(Optional for R Series)	30fps@(2688x1520)	30fps@(2592x1944)	30fps@(3840x2160)
	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264/MJPEG			
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)			
Network	Ethernet	1*RJ45 10M/100M Ethernet Port			
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL			
Audio	Audio Compression	G.711/AAC/G.722/G.726			
	Audio I/O	Built-in Microphone			
Intelligent Analytics	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed			
System	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB			
	Advanced Function	Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur			
	Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, etc.			
General	Event Action	FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.			
	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)			
	Power Supply	PoE (802.3af)			
	Housing	IP67/IK10			
	Dimensions/Weight	Φ108mmX96.5mm/600g (Junction Box Version); Φ106mmX76.5mm/410g (Cable Out Version)			

COLOR SERIES

MINI SERIES

PRO SERIES

PTZ SERIES

PANORAMIC SERIES





TRAFFIC SERIES

NVR SERIES





POE SWITCH

SOFTWARE

ACCESSORIES





		AI Motorized Dome Camera			
Model		MS-C2975-RFPD(2MP)	MS-C4575-FPD(4MP)	MS-C5375-FPD(5MP)	MS-C8175-FPD(4K)
Camera	Appearance				
	Image Sensor	1/2.8" Progressive Scan CMOS			
	Min. Illumination	Color: 0.005Lux@F1.4 B/W: 0Lux with IR on		Color: 0.008Lux@F1.4 B/W: 0Lux with IR on	
	WDR	120dB Super WDR			
	Lens	Motorized 2.7~13.5mm/7~22mm@F1.4			Motorized 2.7~13.5mm@F1.4
	Field of View	H97°~H31°/D113°~D36°/ V53°~V18°(2.7~13.5mm)	H99°~H31°/D124°~D38°/ V72°~V23°(2.7~13.5mm)	H94°~H31°/D120°~D38°/ V68°~V23°(2.7~13.5mm)	H110°~H29°/D129°~D33°/59°~V16
	Shutter Time	1/100000s~1s			
	IR Distance	Up to 50m			
	S/N	>55dB			
Video	Max. Image Resolution	60fps@(1920x1080)	30fps@(2688x1520)	30fps@(2592x1944)	30fps@(3840x2160)
	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264/MJPEG			
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)			
Network	Ethernet	1*RJ45 10M/100M Ethernet Port			
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL			
Audio	Audio Compression	G.711/AAC/G.722/G.726			
	Audio I/O	Built-in Microphone; 1/1 (Multi-interface Version)			
Intelligent Analytics	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed			
System	Alarm I/O	1/1 (Multi-interface Version)			
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB			
	Advanced Function	Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur			
	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.			
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.			
General	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)			
	Power Supply	PoE (802.3af); PoE (802.3af) / DC 12V±10% (Multi-interface Version)			
	Housing	IP67/IK10			
	Dimensions/Weight	Φ 130mmX115mm/780g			

# AI MINI CAMERA SERIES





		AI Vandal-proof Mini Bullet Camera			
Model		MS-C2964-(R)PD(2MP)	MS-C4564-PD(4MP)	MS-C5364-PD(5MP)	MS-C8164-PD(4K)
Camera	Appearance				
	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	120dB Super WDR			
	Lens	2.8mm/4mm/6mm@F1.6			
	Field of View	H111°/D128°/V61°(2.8mm)	H105°/D131°/V78°(2.8mm)		H110°/D126°/V60°(2.8mm)
	Shutter Time	1/100000s~1s			
	IR Distance	Up to 30m			
	S/N	>55dB			
Video	Max. Image Resolution	30fps@(1920x1080) 60fps@(1920x1080)(Optional for R Series)	30fps@(2688x1520)	30fps@(2592x1944)	30fps@(3840x2160)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG			
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)			
Network	Ethernet	1*RJ45 10M/100M Ethernet Port			
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL			
Intelligent Analytics	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed			
System	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB			
	Advanced Function	Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur			
	Event Trigger	Motion Detection, Network Disconnection, etc.			
	Event Action	FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.			
General	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)			
	Power Supply	PoE (802.3af)			
	Housing	IP67/IK10			
	Dimensions/Weight	97mmX74mmX180mm/610g(Junction Box Version); 64mmX64mmX160mm/450g(Cable Out Version)			

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## AI MINI CAMERA SERIES

		AI Weather-proof Mini Bullet Camera		
	Model	MS-C2963-RPE(2MP)	MS-C5363-PE(5MP)	MS-C8163-PE(4K)
Camera	Appearance			 
	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		
	Field of View	H91°/D106°/V50°(4mm)	H86°/D108°/V63°(4mm)	H91°/D106°/V50°(4mm)
	Shutter Time	1/100000s~1s		
	IR Distance	Up to 50m		
	S/N	>55dB		
Video	Max. Image Resolution	60fps@(1920x1080)	30fps@(2592x1944)	30fps@(3840x2160)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG		
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)		
Network	Ethernet	1*RJ45 10M/100M Ethernet Port		
	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		
Audio	Audio Compression	G.711/AAC/G.722/G.726		
	Audio I/O	1/1 (Multi-interface Version)		
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper 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.		
	People Counting&Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting		
System	Alarm I/O	1/1 (Multi-interface Version)		
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB		
	Advanced Function	Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark		
	Event Trigger	Motion Detection, Network Disconnection, etc.; Motion Detection, Network Disconnection, External Input, Audio Alarm, etc. (Multi-interface Version)		
	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)		
General	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)		
	Power Supply	PoE (802.3af); PoE (802.3af) / DC 12V±10% (Multi-interface Version)		
	Housing	IP67/IK10		
	Dimensions/Weight	Φ76mmX214.5mm/750g		

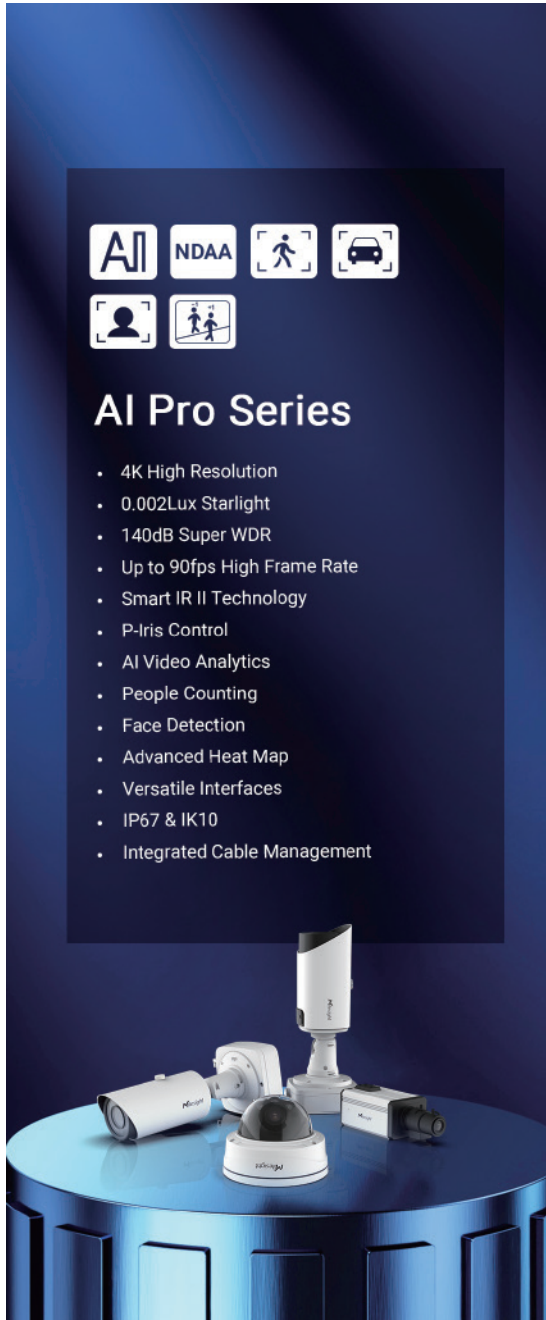
# AI MINI CAMERA SERIES



		AI Motorized Bullet Camera		
	Model	MS-C2964-RF(I)PE(2MP)	MS-C5364-F(I)PE(5MP)	MS-C8164-F(I)PE(4K)
	Appearance			 
Camera	Image Sensor	1/2.8" Progressive Scan CMOS		
	Min. Illumination	Color: 0.005Lux@F1.4 B/W: 0Lux with IR on	Color: 0.008Lux@F1.4 B/W: 0Lux with IR on	Color: 0.012Lux@F1.4 B/W: 0Lux with IR on
	WDR	140dB Super WDR	120dB Super WDR	
	Lens	Motorized 2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4 P-Iris(Optional)		Motorized 2.7~13.5mm@F1.4 P-Iris(Optional)
	Field of View	H111°~H34°/D130°~D39°/V60°~V19°(2.7~13.5mm)	H99°~H31°/D124°~D38°/V72°~V23°(2.7~13.5mm)	H107°~H33°/D125°~D37°/V58°~V18°
	Shutter Time	1/100000s~1s		
	IR Distance	Up to 50m		
	S/N	>55dB		
	Video	Max. Image Resolution	60fps@(1920x1080)	30fps@(2592x1944)
Video Compression		H.265*/H.265(HEVC)/H.264*/H.264/MJPEG		
Video Bit Rate		16Kbps~16Mbps(CBR/VBR Adjustable)		
Network	Ethernet	1*RJ45 10M/100M Ethernet Port		
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL		
Audio	Audio Compression	G.711/AAC/G.722/G.726		
	Audio I/O	1/1 (Multi-interface Version)		
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper 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.		
	People Counting&Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting		
System	Alarm I/O	1/1 (Multi-interface Version)		
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB		
	Advanced Function	Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark		
	Event Trigger	Motion Detection, Network Disconnection, etc.; Motion Detection, Network Disconnection, External Input, Audio Alarm, etc. (Multi-interface Version)		
	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)		
General	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)		
	Power Supply	PoE (802.3af) / DC 12V±10%		
	Housing	IP67/IK10		
	Dimensions/Weight	Ø76mmX239.5mm/825g		




COLOR SERIES  
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## AI PRO CAMERA SERIES








		AI Motorized Pro Dome Camera	
	Model	MS-C4472-RF(I)PE(4MP)	MS-C2972-R(T)F(I)PE(2MP)
Camera	Appearance		
	Image Sensor	1/1.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.002Lux@F1.4 B/W: 0Lux with IR on	Color: 0.005Lux@F1.4 B/W: 0Lux with IR on
	WDR	140dB Super WDR	
	Lens	Motorized 3.6~10mm@F1.4 P-Iris(Optional)	Motorized 2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4 P-Iris(Optional)
	Field of View	H96°~H42°/D111°~D48°/V55°~V23°	H115°~H34°/D135°~D39°/V62°~V19°(2.7~13.5mm)
	Shutter Time	1/100000s~1s	
	IR Distance	Up to 50m	Up to 50m(3.0~10.5mm/2.7~13.5mm) Up to 90m(7~22mm)
	S/N	>55dB	
Video	Max. Image Resolution	60fps@(2688x1520)	90fps@(1920x1080)(Optional for T Series), 60fps@(1920x1080)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG	
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)	
Network	Ethernet	1*RJ45 10M/100M Ethernet Port	
	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	
Audio	Audio Compression	G.711/AAC/G.722/G.726	
	Audio I/O	Built-in Microphone and 1 Audio Output Interface	
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper 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.	
	People Counting&Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting	
System	Alarm I/O	1/1	
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB	
	Advanced Function	Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark	
	Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, External Input, etc.	
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.	
General	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)	
	Power Supply	PoE (802.3af) / DC 12V±10%	
	Housing	IP67/IK10	
	Dimensions/Weight	Φ143mmX108.4mm/1100g	

		AI Motorized Pro Dome Camera		
Camera	Model	MS-C5372-F(I)PE(5MP)	MS-C8172-F(I)PE(4K)	MS-C8272-F(I)PE(4K)
	Appearance			
	Image Sensor	1/2.8" Progressive Scan CMOS		1/1.8" Progressive Scan CMOS
	Min. Illumination	Color:0.008Lux@F1.4 B/W: 0Lux with IR on	Color: 0.012Lux@F1.4 B/W: 0Lux with IR on	Color: 0.009Lux@F1.4 B/W: 0Lux with IR on
	WDR	120dB Super WDR		
	Lens	Motorized 2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4 P-Iris(Optional)	Motorized 2.7~13.5mm@F1.4 P-Iris(Optional)	Motorized 3.6~10mm@F1.4 P-Iris(Optional)
	Field of View	H89°~H30°/D111°~D37°/V66°~V22° (2.7~13.5mm)	H96°~H33°/D112°~D37°/V53°~V18°	H110°~H46°/D126°~D54°/V61°~V25°
	Shutter Time	1/100000s~1s		
	IR Distance	Up to 50m(3.0~10.5mm/2.7~13.5mm) Up to 90m(7~22mm)	Up to 50m	
	S/N	>55dB		
Video	Max. Image Resolution	30fps@(2592x1944)	30fps@(3840x2160)	
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG		
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)		
Network	Ethernet	1*RJ45 10M/100M Ethernet Port		
	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		
Audio	Audio Compression	G.711/AAC/G.722/G.726		
	Audio I/O	Built-in Microphone and 1 Audio Output Interface		
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper 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.		
	People Counting&Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting		
System	Alarm I/O	1/1		
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB		
	Advanced Function	Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark		
	Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, External Input, etc.		
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.		
General	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)		
	Power Supply	PoE (802.3af) / DC 12V±10%		
	Housing	IP67/IK10		
	Dimensions/Weight	Φ143mmX108.4mm/1100g		

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		AI Motorized Pro Bullet Camera		
	Model	MS-C2962-R(T)F(I)PE(2MP)	MS-C5362-F(I)PE(5MP)	MS-C8162-F(I)PE(4K)
Camera	Appearance			
	Image Sensor	1/2.8" Progressive Scan CMOS		
	Min. Illumination	Color: 0.005Lux@F1.4 B/W: 0Lux with IR on	Color: 0.008Lux@F1.4 B/W: 0Lux with IR on	Color: 0.012Lux@F1.4 B/W: 0Lux with IR on
	WDR	140dB Super WDR	120dB Super WDR	
	Lens	Motorized 2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4 P-Iris(Optional)		Motorized 2.7~13.5mm@F1.4 P-Iris(Optional)
	Field of View	H92°~H32°/D107°~D37°/V51°~V18° (2.7~13.5mm)	H89°~H30°/D111°~D37°/V66°~V22° (2.7~13.5mm)	H96°~H33°/D112°~D37°/V53°~V18°
	Shutter Time	1/100000s~1s		
	IR Distance	Up to 60m(3.0~10.5mm/2.7~13.5mm) Up to 100m(7~22mm)		Up to 60m
	S/N	>55dB		
Video	Max. Image Resolution	60fps@(1920x1080) 90fps@(1920x1080)(Optional for T Series)	30fps@(2592x1944)	30fps@(3840x2160)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG		
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)		
Network	Ethernet	1*RJ45 10M/100M Ethernet Port		
	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		
Audio	Audio Compression	G.711/AAC/G.722/G.726		
	Audio I/O	1/1		
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper 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.		
	People Counting&Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting		
System	Alarm I/O	1/1		
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB		
	Advanced Function	Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark		
	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.		
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.		
General	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)		
	Power Supply	PoE (802.3af) / DC 12V±10%		
	Housing	IP67		
	Dimensions/Weight	134mmX126mmX285mm/1080g		

AI Motorized Pro Bullet Plus Camera						
	Model	MS-C4466-RF(I)PE(4MP)	MS-C2966-R(T)F(I)PE(2MP)	MS-C5366-F(I)PE(5MP)	MS-C8166-F(I)PE(4K)	MS-C8266-F(I)PE(4K)
Camera	Appearance					
	Image Sensor	1/1.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS			1/1.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.002Lux@F1.4 B/W: 0Lux with IR on	Color: 0.005Lux@F1.4 B/W: 0Lux with IR on	Color: 0.008Lux@F1.4 B/W: 0Lux with IR on	Color: 0.012Lux@F1.4 B/W: 0Lux with IR on	Color: 0.009Lux@F1.4 B/W: 0Lux with IR on
	WDR	140dB Super WDR			120dB Super WDR	
	Lens	Motorized 3.6~10mm@F1.4 P-Iris(Optional)	Motorized 2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4 P-Iris(Optional)		Motorized 2.7~13.5mm@F1.4 P-Iris(Optional)	Motorized 3.6~10mm@F1.4 P-Iris(Optional)
	Field of View	H100°~H45°/D116°~D51°/ V57°~V25°	H113°~H33°/D130°~D38°/ V60°~V18° (2.7~13.5mm)	H113°~H33°/D138°~D42°/ V83°~V25° (2.7~13.5mm)	H110°~H33°/D118°~D38°/ V60°~V18°	H116°~H48°/D134°~D55°/ V65°~V27°
	Shutter Time	1/100000s~1s				
	IR Distance	Up to 65m	Up to 65m(3.0~10.5mm/2.7~13.5mm) Up to 100m(7~22mm)		Up to 65m	
	S/N	>55dB				
Video	Max. Image Resolution	60fps@(2688x1520)	90fps@(1920x1080)(Optional for T Series), 60fps@(1920x1080)	30fps@(2592x1944)	30fps@(3840x2160)	
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG				
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)				
Network	Ethernet	1*RJ45 10M/100M Ethernet Port				
	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				
Audio	Audio Compression	G.711/AAC/G.722/G.726				
	Audio I/O	1/1				
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper 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.				
	People Counting&Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting				
System	Alarm I/O	1/1				
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB				
	Advanced Function	Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark				
	Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, External Input, etc.				
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.				
General	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)				
	Power Supply	PoE (802.3af) / DC 12V±10%				
	Housing	IP67/IK10				
	Dimensions/Weight	301mmX108mmX98mm/1630g				

COLOR SERIES

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PRO SERIES

PTZ SERIES

PANORAMIC SERIES

TRAFFIC SERIES





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AI 4X/12X Pro Bullet Plus Camera

		MS-C4466-X4RPE(4MP)	MS-C2966-X12R(T)PE(2MP)	MS-C5366-X12PE(5MP)	MS-C8266-X4PE(4K)
Camera	Model	MS-C4466-X4RPE(4MP)	MS-C2966-X12R(T)PE(2MP)	MS-C5366-X12PE(5MP)	MS-C8266-X4PE(4K)
	Appearance				
	Image Sensor	1/1.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS		1/1.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.002Lux@F1.6 B/W: 0Lux with IR on	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on	Color: 0.008Lux@F1.6 B/W: 0Lux with IR on	Color: 0.009Lux@F1.6 B/W: 0Lux with IR on
	WDR	140dB Super WDR		120dB Super WDR	
	Lens	8~32mm, 4X Optical Zoom, 16X Digital Zoom	5.3~64mm, 12X Optical Zoom, 16X Digital Zoom	5.3~64mm, 12X Optical Zoom, 16X Digital Zoom	8~32mm, 4X Optical Zoom, 16X Digital Zoom
	Field of View	H44°~H13°/D51°~D15°/V25°~V7°	H61°~H5°/D69°~D5°/V36°~V2°	H57°~H4°/D69°~D5°/V44°~V1°	H44°~H13°/D51°~D15°/V25°~V7°
	Shutter Time	1/100000s~1s			
	IR Distance	Up to 180m			
S/N	>55dB				
Video	Max. Image Resolution	60fps@(2688x1520)	90fps@(1920x1080)(Optional for T Series), 60fps@(1920x1080)	30fps@(2592x1944)	30fps@(3840x2160)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG			
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)			
Network	Ethernet	1*RJ45 10M/100M Ethernet Port			
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL			
Audio	Audio Compression	G.711/AAC/G.722/G.726			
	Audio I/O	1/1			
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper 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.			
	People Counting & Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting			
System	Alarm I/O	1/1			
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB			
	Advanced Function	Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark			
	Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, External Input, etc.			
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.			
General	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing) -60 C ~60 C (Optional for Heater Version)/0~90%(Non-condensing)			
	Power Supply	PoE (802.3at) / DC 12V±10%			
	Housing	IP67/IK10			
	Dimensions/Weight	320mmX134mmX126mm/1445.8g	320mmX134mmX126mm/1447g	320mmX134mmX126mm/1445.8g	320mmX134mmX126mm/1445.8g

# AI PRO CAMERA SERIES

		AI Pro Box Plus Camera			
Model		MS-C4452-R(E)PE(4MP)	MS-C2952-RPE(2MP)	MS-C5352-PE(5MP)	MS-C8152-PE(4K)
Camera	Appearance				 
	Image Sensor	1/1.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS		
	Min. Illumination	Color: 0.001Lux@F1.2 B/W: 0.0005Lux@F1.2	Color: 0.002Lux@F1.2 B/W: 0.001Lux@F1.2	Color: 0.005Lux@F1.2 B/W: 0.002Lux@F1.2	Color: 0.01Lux@F1.2 B/W: 0.005Lux@F1.2
	WDR	140dB Super WDR		120dB Super WDR	
	Iris	P-Iris/DC-Iris			
	Shutter Time	1/100000s~1s			
	S/N	>55dB			
Video	Max. Image Resolution	60fps@(2688x1520)	60fps@(1920x1080)	30fps@(2592x1944)	30fps@(3840x2160)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG			
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)			
Network	Ethernet	1*RJ45 10M/100M Ethernet Port			
	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			
Audio	Audio Compression	G.711/AAC/G.722/G.726			
	Audio I/O	1/1			
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper 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.			
	People Counting& Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting			
System	Alarm I/O	1/1			
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB			
	Advanced Function	Privacy Masking, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark			
	Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, External Input, etc.			
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.			
General	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)			
	Power Supply	PoE (802.3af) / DC 12V±10%			
	Dimensions/Weight	130mmX75mmX66mm/366g			

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## AI PTZ CAMERA SERIES



### AI PTZ Series







- 360° Endless Pan, 95° Tilt
- Up to 42X Optical Zoom
- 1/1.8" STARVIS Starlight Sensor
- 4K High Resolution
- 0.002Lux Starlight
- 140dB Super WDR
- Up to 100fps High Frame Rate
- Smart IR II Technology
- Auto Tracking
- Intelligent 3D Positioning
- Smart Rain-sensing Wiper
- Versatile Interfaces



		AI 12X PTZ Bullet Camera	
	Model	MS-C2961-X12R(T)(P)E(2MP)	MS-C5361-X12(P)E(5MP)
	Appearance		
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
	WDR	140dB Super WDR	120dB Super WDR
	Lens	5.3~64mm, 12X Optical Zoom, 16X Digital Zoom	
	Field of View	H61°~H5°/D69°~D5°/V36°~V2°	H57°~H4°/D69°~D5°/V44°~V1°
	Minimum Working Distance	1000/1500mm (Wide/Tele)	
	Shutter Time	1/100000s~1s	
	IR Distance	Up to 140m	
	S/N	>55dB	
PTZ	Pan Range/Speed	360°endless / Pan Manual Speed: 0.1°~50°/s, Pan Preset Speed: 50°/s	
	Tilt Range/Speed	-45°~30° / Tilt Manual Speed: 0.1°~25°/s, Tilt Preset Speed: 25°/s	
	Preset Quantity	300	
	Patrol/Pattern	8 Patrols, up to 48 presets each patrol, 4 Patterns	
Video	Max. Image Resolution	60fps@(1920x1080), 90fps@(1920x1080)(Optional for T Series)	30fps@(2592x1944)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG	
Network	Ethernet	1*RJ45 10M/100M Ethernet Port	
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL	
Audio	Audio Compression	G.711/AAC/G.722/G.726	
	Audio I/O	1/1 (Optional)	
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper 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.	
	People Counting&Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting	
System	Alarm I/O	1/1 (Optional)	
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB	
	Advanced Function	Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark	
	Event Trigger	Motion Detection, Network Disconnection, External Input (Optional), Audio Alarm (Optional), etc.	
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output (Optional), SIP Phone, White LED, PTZ Motion, HTTP Notification, etc.	
General	Working Temperature /Humidity	-40°C~60°C/0~95%(Non-condensing)	
	Power Supply	PoE (802.3at) / DC 12V/2A±10%	
	Housing	IP66	
	Dimensions/Weight	160mmX273.5mmX210mm/2Kg (Wall Mount) / 218mmX120mmX172mm/1.8Kg (Pedestal Mount)	



# AI PTZ CAMERA SERIES

		AI 5X/20X/23X PTZ Bullet Plus Camera			
Model		MS-C2867-X20TPA(2MP)	MS-C2967-X23R(T)PA(2MP)	MS-C8267-X5PA(4K)	MS-C8267-X20PA(4K)
Camera	Appearance			 	 
	Image Sensor	1/2" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.002Lux@F1.6 B/W: 0Lux with IR on	Color: 0.005Lux@F1.5 B/W: 0Lux with IR on	Color: 0.009Lux@F1.7 B/W: 0Lux with IR on	Color: 0.009Lux@F1.6 B/W: 0Lux with IR on
	WDR	120dB Super WDR			
	Lens	6.4~128mm@F1.6~F4.0, 20X Optical Zoom, 16X Digital Zoom	5~117mm@F1.5~F3.5, 23X Optical Zoom, 16X Digital Zoom	11~55mm@F1.7~F2.1, 5X Optical Zoom, 16X Digital Zoom	6.4~128mm@F1.6~F4.0, 20X Optical Zoom, 16X Digital Zoom
	Field of View	H60°~H3°/D67°~D4°/V37°~V1°	H60°~H3°/D69°~D4°/V35°~V2°	H36°~8°/D41°~D9°/V21°~V5°	H60°~H3°/D67°~D4°/V37°~V1°
	Minimum Working Distance	1000~2000mm (Wide/Tele)	1000~1500mm (Wide/Tele)		1000~2000mm (Wide/Tele)
	Shutter Time	1/100000s~1s			
	IR Distance	Up to 180m			
	S/N	>55dB			
PTZ	Pan Range/Speed	360°endless / Pan Manual Speed: 0.1°~60°/s, Pan Preset Speed: 60°/s			
	Tilt Range/Speed	-45°~30° / Tilt Manual Speed: 0.1°~30°/s, Tilt Preset Speed: 30°/s			
	Preset Quantity	300			
	Patrol/Pattern	8 Patrols, up to 48 presets each patrol, 4 Patterns			
Video	Max. Image Resolution	60fps@(1920x1080), 90fps@(1920x1080)(Optional for T Series)		30fps@(3840x2160)	
	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264/MJPEG			
Network	Ethernet	1*RJ45 10M/100M Ethernet Port			
	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			
Audio	Audio Compression	G.711/AAC/G.722/G.726			
	Audio I/O	1/1			
Intelligent Analytics	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed			
	People Counting&Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting			
System	Alarm I/O	1/1			
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G			
	Advanced Function	Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark			
	Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, External Input, etc.			
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, White LED, PTZ Motion, HTTP Notification, etc.			
General	Working Temperature /Humidity	-40°C~60°C/0~90%(Non-condensing)			
	Power Supply	PoE (802.3at) / DC 12V/3A±10%			
	Housing	IP66			
	Dimensions/Weight	110mmX337mmX220mm/2.9Kg			

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		AI 12X/20X/23X PTZ Bullet Plus Camera						
Model		MS-C2967-X12R(T)PE	MS-C2967-X23R(T)PE	MS-C5367-X12PE	MS-C5367-X23PE	MS-C4467-X20RPE	MS-C8267-X20PE	
Camera	Appearance							
	Image Sensor	1/2.8" Progressive Scan CMOS				1/1.8" Progressive Scan CMOS		
	Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on	Color: 0.005Lux@F1.5 B/W: 0Lux with IR on	Color: 0.008Lux@F1.6 B/W: 0Lux with IR on	Color: 0.008Lux@F1.5 B/W: 0Lux with IR on	Color: 0.002Lux@F1.6 B/W: 0Lux with IR on	Color: 0.009Lux@F1.6 B/W: 0Lux with IR on	
	WDR	140dB Super WDR			120dB Super WDR			
	Lens	5.3~64mm, 12X Optical Zoom, 16X Digital Zoom	5~117mm, 23X Optical Zoom, 16X Digital Zoom	5.3~64mm, 12X Optical Zoom, 16X Digital Zoom	5~117mm, 23X Optical Zoom, 16X Digital Zoom	6.4~128mm, 20X Optical Zoom, 16X Digital Zoom		
	Field of View	H61°~H5°/D69°~D5°/ V36°~V2°	H60°~H3°/D69°~D4°/ V35°~V2°	H61°~H5°/D69°~D5°/ V36°~V2°	H55°~H3°/D68°~D4°/ V42°~V2°	H60°~H3°/D67°~D4°/ V37°~V1°		
	Minimum Working Distance	1000/1500mm (Wide/Tele)					1000/2000mm (Wide/Tele)	
	Shutter Time	1/100000s~1s						
	IR Distance	Up to 180m						
	S/N	>55dB						
PTZ	Pan Range/Speed	360°endless / Pan Manual Speed: 0.1°~50°/s, Pan Preset Speed: 50°/s						
	Tilt Range/Speed	-45°~30° / Tilt Manual Speed: 0.1°~30°/s, Tilt Preset Speed: 30°/s						
	Preset Quantity	300						
	Patrol/Pattern	8 Patrols, up to 48 presets each patrol, 4 Patterns						
Video	Max. Image Resolution	90fps@(1920x1080)(Optional for T Series), 60fps@(1920x1080)		30fps@(2592x1944)		60fps@(2688x1520)	30fps@(3840x2160)	
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG						
Network	Ethernet	1*RJ45 10M/100M Ethernet Port						
	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						
Audio	Audio Compression	G.711/AAC/G.722/G.726						
	Audio I/O	1/1						
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed						
	People Counting&Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting						
System	Alarm I/O	1/1						
	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB						
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark						
	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.						
General	Working Temperature /Humidity	-40°C~60°C/0~90%(Non-condensing)						
	Power Supply	PoE (802.3at) / DC 12V/3A±10%						
	Housing	IP66						
	Dimensions/Weight	110mmX337mmX220mm/2.9Kg						

# AI PTZ CAMERA SERIES

		AI 12X/20X/23X PTZ Dome Camera			
Model		MS-C4471-X20RPE(4MP)	MS-C2971-X12R(T)PE(2MP)	MS-C2971-X23R(T)PE(2MP)	MS-C5371-X12PE(5MP)
Camera	Appearance				
	Image Sensor	1/1.8" Progressive Scan CMOS		1/2.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.002Lux@F1.6 B/W: 0Lux with IR on	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on	Color: 0.005Lux@F1.5 B/W: 0Lux with IR on	Color: 0.008Lux@F1.6 B/W: 0Lux with IR on
	WDR	140dB Super WDR			120dB Super WDR
	Lens	6.4~128mm, 20X Optical Zoom, 16X Digital Zoom	5.3~64mm, 12X Optical Zoom, 16X Digital Zoom	5~117mm, 23X Optical Zoom, 16X Digital Zoom	5.3~64mm, 12X Optical Zoom, 16X Digital Zoom
	Field of View	H60°~H3°/D67°~D4°/V37°~V1°	H61°~H5°/D69°~D5°/V36°~V2°	H60°~H3°/D69°~D4°/V35°~V2°	H57°~H4°/D69°~D5°/V44°~V1°
	Minimum Working Distance	100/2000mm(Wide/Tele)	1000/1500mm(Wide/Tele)	100/1500mm (Wide/Tele)	1000/1500mm(Wide/Tele)
	Shutter Time	1/100000s~1s			
	IR Distance	Up to 160m			
	S/N	>55dB			
PTZ	Pan Range/Speed	360° endless; Pan Manual Speed: 0.1°~350°/s, Pan Preset Speed: 350°/s			
	Tilt Range/Speed	-5°~90° (Auto Flip); Tilt Manual Speed: 0.1°~360°/s, Tilt Preset Speed: 360°/s			
	Preset Quantity	300			
	Patrol/Pattern	8 Patrols, up to 48 presets each patrol, 4 Patterns			
Video	Max. Image Resolution	60fps@(2688x1520)	60fps@(1920x1080), 90fps@(1920x1080)(Optional for T Series)		30fps@(2592x1944)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG			
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)			
Network	Ethernet	1*RJ45 10M/100M Ethernet Port			
	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			
Audio	Audio Compression	G.711/AAC/G.722/G.726			
	Audio I/O	1/1			
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper 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.			
	People Counting & Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting			
System	Alarm I/O	1/1			
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 1TB			
	Advanced Function	Privacy Masking, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark			
	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.			
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, PTZ Motion, HTTP Notification, etc.			
General	Working Temperature /Humidity	-40°C~60°C/0~95%(Non-condensing)			
	Power Supply	PoE (802.3at) / DC 12V/3A±10%			
	Housing	IP66/IK10			
	Dimensions/Weight	Φ183mmX174.8mm/2Kg			

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		AI 25X/30X Speed Dome Camera			
Model		MS-C2941- X25R(T)PE (2MP)	MS-C2941- X30R(T)PE  (2MP)	MS-C5341-X25PE (5MP)	MS-C5341-X30PE  (5MP)
Camera	Appearance				
	Image Sensor	1/2.8" Progressive Scan CMOS			
	Min. Illumination	Color: 0.005Lux@F1.5 B/W: 0Lux with IR on		Color: 0.008Lux@F1.5 B/W: 0Lux with IR on	
	WDR	140dB Super WDR		120dB Super WDR	
	Lens	4.8~120mm, 25X, 25X Optical Zoom	4.7~141mm, 30X Optical Zoom	4.8~120mm, 25X, 25X Optical Zoom	4.7~141mm, 30X Optical Zoom
	Field of View	H61.6°~H2.8°/D70.8°~D3.8°/V36.8°~V1.8°	H62°~H3°/D70°~D3°/ V37°~V1°	H57°~H2.8°/D69.8°~D3.6°/V43.8°~V1.8°	H58°~H3°/D71°~D3°/V44°~V2°
	Minimum Working Distance	100/1500mm (Wide/Tele)	100/1500mm (Wide/Tele)	100/1500mm(Wide/Tele)	100/1500mm(Wide/Tele)
	Shutter Time	1/100000s~1s			
	IR Distance	Up to 200m	Up to 200m Up to 300m(Wiper Version)	Up to 200m	Up to 200m Up to 300m(Wiper Version)
S/N	>55dB				
PTZ	Pan Range/Speed	360°endless / Pan Manual Speed: 0.1°~250°/s, Pan Preset Speed: 250°/s			
	Tilt Range/Speed	-5°~90°(Auto Flip) / Tilt Manual Speed: 0.1°~160°/s, Tilt Preset Speed: 160°/s			
	Preset Quantity	300			
	Patrol/Pattern	8 Patrols, up to 48 presets each patrol, 4 Patterns			
Video	Max. Image Resolution	60fps@(1920x1080), 90fps@(1920x1080)(Optional for T Series)		30fps@(2592x1944)	
	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264/MJPEG			
Network	Ethernet	1*RJ45 10M/100M Ethernet Port			
	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			
Audio	Audio Compression	G.711/AAC/G.722/G.726			
	Audio I/O	1/1			
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper 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.			
	People Counting&Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting			
System	Alarm I/O	4/2			
	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB			
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark			
	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.			
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, PTZ Motion, HTTP Notification, etc.			
General	Wiper(Optional)	-	Support	-	Support
	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)			
	Power Supply	PoE (802.3at) / AC 24V/3A±10%			
	Housing	IP66/IK10(Optional)			
	Surge Protection	6KV			
Dimensions/Weight	Φ205mmX308mm/4Kg				

# AI PTZ CAMERA SERIES

		AI 36X/42X Speed Dome Camera			
Model		MS-C4441-X36RPE <small>7W (4MP)</small>	MS-C2941- X42R(T)PE <small>7W (2MP)</small>	MS-C5341-X42PE <small>7W (5MP)</small>	MS-C8241-X36PE <small>7W (4K)</small>
Camera	Appearance				 <b>4K</b>
	Image Sensor	1/1.8" Progressive Scan CMOS		1/2.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.002Lux@F1.4 B/W: 0Lux with IR on		Color: 0.005Lux@F1.8 B/W: 0Lux with IR on	
	WDR	120dB Super WDR			
	Lens	5.7~205.2mm, 36X Optical Zoom		7~300mm, 42X Optical Zoom	
	Field of View	H63°~H3°/D69°~D3°/V38°~V1°		H45°~H2°/D50°~D2°/V27°~V1°	
	Minimum Working Distance	1500/1500mm (Wide/Tele)		1200/1500mm(Wide/Tele)	
	Shutter Time	1/100000s~1s			
	IR Distance	Up to 300m			
	S/N	>55dB			
PTZ	Pan Range/Speed	360°endless / Pan Manual Speed: 0.1°~250°/s, Pan Preset Speed: 250°/s			
	Tilt Range/Speed	-5°~90°(Auto Flip) / Tilt Manual Speed: 0.1°~160°/s, Tilt Preset Speed: 160°/s			
	Preset Quantity	300			
	Patrol/Pattern	8 Patrols, up to 48 presets each patrol, 4 Patterns			
Video	Max. Image Resolution	60fps@(2304x1728)	60fps@(1920x1080), 90fps@(1920x1080)(Optional for T Series)	30fps@(2592x1944)	30fps@(3840x2160)
	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264/MJPEG			
Network	Ethernet	1*RJ45 10M/100M Ethernet Port			
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL			
Audio	Audio Compression	G.711/AAC/G.722/G.726			
	Audio I/O	1/1			
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper 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.			
	People Counting&Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting			
System	Alarm I/O	4/2			
	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB			
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark			
	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.			
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, PTZ Motion, HTTP Notification, etc.			
General	Wiper(Optional)	Support			
	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)			
	Power Supply	PoE (802.3at) / AC 24V/3A±10%			
	Housing	IP66/IK10(Optional)			
	Surge Protection	6KV			
Dimensions/Weight	Φ205mmX308mm/4Kg				

COLOR SERIES

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## AI PANORAMIC CAMERA SERIES











### AI Panoramic Series

- 180°/360° Panoramic View
- Stunning Dewarping Capability
- Up to 12MP Ultra High Resolution
- On-board/Client-side Dewarping
- Smart IR II Technology
- Fisheye Auto Tracking
- Advanced Heat Map
- IP67 & IK10
- Built-in Microphone
- Point-contact Power Supply
- Hassle-free Installation



		AI 360° Panoramic Fisheye Camera	
	Model	MS-C8274-PA (4K)	MS-C9674-PA(12MP)
Camera	Appearance	 	 
	Image Sensor	1/1.8" Progressive Scan CMOS	1/1.7" Progressive Scan CMOS
	Min. Illumination	Color: 0.008Lux@F1.8 B/W: 0Lux with IR on	Color: 0.05Lux@F2.8 B/W: 0Lux with IR on
	WDR	120dB Super WDR	
	Lens	1.5mm@F1.8	1.98mm@F2.8
	Field of View	Ceiling Mount: 360°; Wall Mount: 180°; Flat Mount: 360°	
	Shutter Time	1/100000s~1s	
	IR Distance	Up to 15m	
	S/N	>55dB	
Video	Max. Input Resolution	3840x2160	4000x3000
	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264/MJPEG	
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)	
Display	Mount Mode	Ceiling Mount/Wall Mount/Flat Mount	
	Display Mode	Fisheye View, 360° Panoramic View, 180° Panoramic View, 4PTZ, Fisheye+3PTZ, Panoramic View+3PTZ, Fisheye+Panoramic View+3PTZ	
Network	Ethernet	1*RJ45 10M/100M/1000M Ethernet Port	
	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	
Audio	Audio Compression	G.711/AAC/G.722/G.726	
	Audio I/O	Built-in Microphone; 1/1 (Multi-interface Version)	Built-in Microphone and Audio Input/ Output interface
Intelligent Analytics	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed	
	People Counting & Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting	
System	Alarm I/O	1/1 (Multi-interface Version)	1/1
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to 256G	
	Advanced Function	Auto Tracking, Privacy Mask, Heat Map, BLC, HLC, 2D DNR, 3D DNR, AWB, IP Address Filtering, AGC, Anti-flicker, Deblur, Watermark	
	Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, External Input, etc.	
	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.
General	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)	
	Power Supply	PoE (802.3af) / DC 12V± 10%	
	Housing	IP67/IK10	
	Dimensions/Weight	Φ140mmX45.4mm/700g	

# AI PANORAMIC CAMERA SERIES

		AI 180° Panoramic Mini Dome Camera		AI 180° Panoramic Mini Bullet Camera	
Camera	Model	MS-C5376-PE(5MP)	MS-C8176-PE(4K)	MS-C5365-PE(5MP)	MS-C8165-PE(4K)
	Appearance				
	Image Sensor	1/2.8" Progressive Scan CMOS			
	Min. Illumination	Color: 0.008Lux@F2.0 B/W: 0Lux with IR on	Color: 0.012Lux@F2.0 B/W: 0Lux with IR on	Color: 0.008Lux@F2.0 B/W: 0Lux with IR on	Color: 0.012Lux@F2.0 B/W: 0Lux with IR on
	WDR	120dB Super WDR			
	Lens	1.68mm@F2.0			
	Field of View	H180°/V95°	H180°/V86°	H180°/V95°	H180°/V86°
	Shutter Time	1/100000s~1s			
	IR Distance	Up to 15m			
S/N	>55dB				
Video	Max. Image Resolution	30fps@(2592x1944)(Original), 30fps@(2560x1440)	25fps@(3840x2160)	30fps@(2592x1944)(Original), 30fps@(2560x1440)	25fps@(3840x2160)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG			
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)			
Network	Ethernet	1*RJ45 10M/100M Ethernet Port			
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL			
Audio	Audio Compression	G.711/AAC/G.722/G.726			
	Audio I/O	Built-in Microphone			
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed			
	People Counting& Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting			
System	Alarm I/O	-			
	Storage	NAS(Support NFS, SMB/CIFS); Support microSD/SDHC/SDXC Card Local Storage, up to1TB			
	Advanced Function	Privacy Mask, Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark			
	Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, etc.			
	Event Action	FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.			
General	Working Temperature /Humidity	-40 C ~60 C /0~95%(Non-condensing)			
	Power Supply	PoE (802.3af) / DC 12V±10%			
	Housing	IP67/IK10			
	Dimensions/Weight	Φ127mmX107mm/853g		95.8mmX74mmX158.5mm/700g	

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## ROAD TRAFFIC MANAGEMENT














# Intelligent Traffic Series

## Road Traffic Management





- Advanced AI LPR Algorithm
- 3D Radar Technology
- 4G Solar-powered Technology
- Supplement Light for Better Image
- Traffic Flow Statistics and Analysis
- Evidence Capture
- Intelligent Plate Data
- License Plate Administration
- Superior Image Quality
- Wiegand Protocol Supported
- Maximized Flexibility



		AI Road Traffic Pro Bullet Plus Camera					
		Model	TS4466-X4RPE(4MP)	TS2966-X12TPE (2MP)	TS5366-X12PE (5MP)	TS8266-X4PE (4K)	
Camera	Appearance						
	Image Sensor	1/1.8" Progressive Scan CMOS		1/2.8" Progressive Scan CMOS		1/1.8" 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: 0.009Lux@F1.6 B/W: 0Lux with IR on
	WDR	120dB Super WDR					
	Lens	8~32mm, 4X Optical Zoom	5.3~64mm, 12X Optical Zoom			8~32mm, 4X Optical Zoom	
	IR Wave Length	850nm (Default); 740nm (Optional)					
	Illumination Distance	Up to 180m					
	Field of View	H44°~H13°/D51°~D15° /V25°~V7°	H61°~H5°/D69°~D5° /V36°~V2°	H57°~H4°/D69°~D5° /V44°~V1°	H44°~H13°/D51°~D15° /V25°~V7°		
Road Traffic Management	Max. Vehicle Speed	120km/h					
	Recognition Accuracy	>95%					
	Coverage	2 lanes					
	Country Region Supported	More than 80 countries and regions					
	ANPR Distance	Up to 95m during the day; Up to 45m during the night with illumination	Up to 110m during the day; Up to 55m during the night with illumination	Up to 150m during the day; Up to 80m during the night with illumination	Up to 130m during the day; Up to 60m during the night with illumination		
	Attributes Identification	Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture, Vehicle Direction Detection					
	Smart Traffic Function	Evidence Camera Linkage, Vehicle Counting Based on Vehicle Type, Specific Lane Management					
	White/Black List	Up to 20,000 records inside the camera					
	LPR Smart Search	Support					
Interface	Interface	Audio I/O, Alarm I/O*2, PoE (802.3at), DC 12V					
Video	Max. Image Resolution	60fps@(2688x1520)	90fps@(1920x1080)	30fps@(2592x1944)	30fps@(3840x2160)		
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG					
Network	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					
Audio	Audio Compression	G.711/AAC/G.722/G.726					
System	Compatibility	API, HTTP, TCP, ONVIF Profile G & M & S & T					
	Event Trigger	Black/White List, Attributes Event, Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.					
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc					
General	Housing	IP67/IK10					









# ROAD TRAFFIC MANAGEMENT


		AI Road Traffic Radar Pro Bullet Plus Camera				
	Model	TS4466-X4RVPE(4MP)	TS2966-X12TVPE (2MP)	TS5366-X12VPE (5MP)	TS8266-X4VPE (4K)	
Camera	Appearance					
	Image Sensor	1/1.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS		1/1.8" 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		
	WDR	120dB Super WDR				
	Lens	8~32mm, 4X Optical Zoom	5.3~64mm, 12X Optical Zoom		8~32mm, 4X Optical Zoom	
	IR Wave Length	850nm (Default); 740nm (Optional)				
	Illumination Distance	Up to 180m				
	Field of View	H44°~H13°/D51°~D15°/V25°~V7°	H61°~H5°/D69°~D5°/V36°~V2°	H57°~H4°/D69°~D5°/V44°~V1°	H44°~H13°/D51°~D15°/V25°~V7°	
Road Traffic Management	Max. Vehicle Speed	120km/h				
	Recognition Accuracy	>95%				
	Coverage	2 lanes				
	Country Region Supported	More than 80 countries and regions				
	ANPR Distance	Up to 95m during the day; Up to 45m during the night with illumination	Up to 110m during the day; Up to 55m during the night with illumination	Up to 150m during the day; Up to 80m during the night with illumination	Up to 130m during the day; Up to 60m during the night with illumination	
	Attributes Identification	Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture, Vehicle Direction Detection, Speed Detection, Traffic Flow Detection				
	Smart Traffic Function	Evidence Camera Linkage, Vehicle Counting Based on Vehicle Type, Specific Lane Management				
	White/Black List	Up to 20,000 records inside the camera				
Radar	LPR Smart Search	Support				
	Working Frequency	60GHz, 61~62GHz				
	Capture Rate	>99% (Traffic jam >95%)				
	Lane Coverage	1~4 Lanes (Recognition ≥95% individually)				
	Tracking Target	Up to 32				
	Speed Detection Range & Accuracy	±5km/h~±200km/h; ±0.36km/h(Accuracy)				
	Detection Distance & Accuracy	Up to 90m; ±0.4m(Accuracy)				
Installation Height	2~7m					
Interface	Interface	Audio I/O, Alarm I/O, PoE (802.3at), DC 12V				
Video	Max. Image Resolution	60fps@(2688x1520)	90fps@(1920x1080)	30fps@(2592x1944)	30fps@(3840x2160)	
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG				
Network	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				
Audio	Audio Compression	G.711/AAC/G.722/G.726				
System	Compatibility	API, HTTP, TCP, ONVIF Profile G & M & S & T				
	Event Trigger	Black/White List, Attributes Event, Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.				
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc				
General	Housing	IP67				





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		AI Road Traffic Supplement Light Pro Bullet Plus Camera				
	Model	TS4466-X4RWE /W (4MP)	TS4466-X4RWE /R (4MP)	TS8266-X4WE /W (4K)	TS8266-X4WE /R (4K)	
Camera	Appearance			 	 	
	Image Sensor	1/1.8" Progressive Scan CMOS		1/1.8" Progressive Scan CMOS		
	Min. Illumination	Color: 0.002Lux@F1.6 B/W: 0Lux with IR on		Color: 0.009Lux@F1.6 B/W: 0Lux with IR on		
	WDR	140dB Super WDR				
	Lens	8~32mm, 4X Optical Zoom				
	IR Wave Length	-	850nm (Default); 740nm (Optional)		-	850nm (Default); 740nm (Optional)
	Illumination Distance	Up to 180m				
	Field of View	H44°~H13°/D51°~D15°/V25°~V7°				
Road Traffic Management	Max. Vehicle Speed	120km/h				
	Recognition Accuracy	>95%				
	Coverage	2 lanes				
	Country Region Supported	More than 80 countries and regions				
	ANPR Distance	Up to 95m during the day; Up to 50m during the night with illumination		Up to 130m during the day; Up to 65m during the night with illumination		
	Attributes Identification	Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture, Vehicle Direction Detection				
	Smart Traffic Function	Evidence Camera Linkage, Vehicle Counting Based on Vehicle Type, Specific Lane Management				
	White/Black List	Up to 20,000 records inside the camera				
LPR Smart Search	Support					
Illuminator	Supplement Light	White LED Light	IR LED Light	White LED Light	IR LED Light	
	Light Bead	6 (For White LED Light)	9 (For IR LED Light)	6 (For White LED Light)	9 (For IR LED Light)	
	Light Control	Auto/Always On/Off/Customize				
Interface	Interface	RS485, Audio I/O, Alarm I/O*2, Ethernet Port, DC 12V				
Video	Max. Image Resolution	90fps@(1920x1080)		30fps@(3840x2160)		
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG				
Network	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL				
Audio	Audio Compression	G.711/AAC/G.722/G.726				
System	Compatibility	API, HTTP, TCP, ONVIF Profile G & M & S & T				
	Event Trigger	Black/White List, Attributes Event, Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.				
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc				
General	Housing	IP67				

AI Road Traffic PTZ Bullet Camera

	Model	TS2961-X12TPE(2MP)
Camera	Appearance	
	Image Sensor	1/2.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on
	WDR	140dB Super WDR
	Lens	5.3~64mm, 12X Optical Zoom, 16X Digital Zoom
	Illumination Distance	Up to 140m
	Field of View	H61°~H5°/D69°~D5°/V36°~V2°
	Road Traffic Management	Max. Vehicle Speed
Recognition Accuracy		>95%
Coverage		2 lanes
Country Region Supported		More than 80 countries and regions
ANPR Distance		Up to 110m during the day; Up to 55m during the night with illumination
Attributes Identification		Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture, Vehicle Direction Detection
Smart Traffic Function		Evidence Camera Linkage, Vehicle Counting Based on Vehicle Type, Specific Lane Management
White/Black List		Up to 20,000 records inside the camera
LPR Smart Search		Support
PTZ	Pan Range/Pan Speed	360°endless / Pan Manual Speed: 0.1°~50°/s, Pan Preset Speed: 50°/s
	Tilt Range/Tilt Speed	-45°~30° / Tilt Manual Speed: 0.1°~25°/s, Tilt Preset Speed: 25°/s
	Preset/Patrol/Pattern	8 Patrols, up to 48 presets each patrol, 4 patterns
Interface	Ethernet	Audio I/O (Optional), Alarm I/O (Optional), PoE (802.3at), DC 12V
Video	Max. Image Resolution	90fps@(1920x1080)
	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264/MJPEG
Network	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
Audio	Audio Compression	G.711/AAC/G.722/G.726
System	Compatibility	API, HTTP, TCP, ONVIF Profile G & M & S & T
	Event Trigger	Black/White List, Attributes Event, Motion Detection, Network Disconnection, External Input (Optional), Audio Alarm (Optional), etc.
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output (Optional), SIP Phone, White LED, PTZ Motion, HTTP Notification, etc.
General	Housing	IP66

		AI Road Traffic PTZ Bullet Plus Camera			
Model		TS2967-X12TPE(2MP)	TS2967-X23TPE(2MP)	TS4467-X20RPE(4MP)	TS5367-X12PE(5MP)
Camera	Appearance				
	Image Sensor	1/2.8" Progressive Scan CMOS		1/1.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on	Color: 0.005Lux@F1.5 B/W: 0Lux with IR on	Color: 0.002Lux@F1.6 B/W: 0Lux with IR on	Color: 0.002Lux@F1.6 B/W: 0Lux with IR on
	WDR	140dB Super WDR		120dB Super WDR	
	Lens	5.3~64mm, 12X Optical Zoom	5~117mm, 23X Optical Zoom	6.4~128mm, 20X Optical Zoom	5.3~64mm, 12X Optical Zoom
	Illumination Distance	Up to 140m			
	Field of View	H61°~H5°/D69°~D5°/ V36°~V2°	H60°~H3°/D69°~D4°/ V35°~V2°	H60°~H3°/D67°~D4°/ V37°~V1°	H57°~H4°/D69°~D5°/ V44°~V1°
Road Traffic Management	Max. Vehicle Speed	120km/h			
	Recognition Accuracy	>95%			
	Coverage	2 lanes			
	Country Region Supported	More than 80 countries and regions			
	ANPR Distance	Up to 110m during the day; Up to 55m during the night with illumination	Up to 290m during the day; Up to 100m during the night with illumination	Up to 240m during the day; Up to 90m during the night with illumination	Up to 150m during the day; Up to 80m during the night with illumination
	Attributes Identification	Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture			
	Smart Traffic Function	Evidence Camera Linkage, Vehicle Counting Based on Vehicle Type, Specific Lane Management			
	White/Black List	Up to 20,000 records inside the camera			
PTZ	LPR Smart Search	Support			
	Pan Range/Pan Speed	360°endless / Pan Manual Speed: 0.1°~60°/s, Pan Preset Speed: 60°/s			
	Tilt Range/Tilt Speed	-45°~30° / Tilt Manual Speed: 0.1°~30°/s, Tilt Preset Speed: 30°/s			
Interface	Ethernet	Audio I/O, 2*Alarm I/O, PoE (802.3at), DC 12V			
Video	Max. Image Resolution	90fps@(1920x1080)		60fps@(2688x1520)	30fps@(2592x1944)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG			
Network	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			
Audio	Audio Compression	G.711/AAC/G.722/G.726			
System	Compatibility	API, HTTP, TCP, ONVIF Profile G & M & S & T			
	Event Trigger	Black/White List, Attributes Event, Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.			
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, White LED, PTZ Motion, HTTP Notification, etc.			
General	Housing	IP66			

# ROAD TRAFFIC MANAGEMENT

		AI Road Traffic Speed Dome Camera	
Model		TS4441-X36RPE (4MP)	TS4441-X36RPE (4MP)
Camera	Appearance		
	Image Sensor	1/1.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.002Lux@F1.55 B/W: 0Lux with IR on	
	WDR	140dB Super WDR	
	Lens	5.7~205.2mm, 36X Optical Zoom, 16X Digital Zoom	
	Illumination Distance	Up to 300m	
	Field of View	H63°~H3°/D69°~D3°/ V38°~V1°	
Road Traffic Management	Max. Vehicle Speed	120km/h	
	Recognition Accuracy	>95%	
	Coverage	2 lanes	
	Country Region Supported	More than 80 countries and regions	
	ANPR Distance	Up to 390m during the day; Up to 180m during the night with illumination	
	Attributes Identification	Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture	
	Smart Traffic Function	Evidence Camera Linkage, Vehicle Counting Based on Vehicle Type, Specific Lane Management	
	White/Black List	Up to 20,000 records inside the camera	
	LPR Smart Search	Support	
Interface	Interface	RS485, Audio I/O, 4*Alarm In, 2*Alarm Out, PoE (802.3at), AC 24V	
PTZ	Pan Range/Pan Speed	360°endless / Pan Manual Speed: 0.1°~250°/s, Pan Preset Speed: 250°/s	
	Tilt Range/Tilt Speed	-5°~90°(Auto Flip) / Tilt Manual Speed: 0.1°~160°/s, Tilt Preset Speed: 160°/s	
	Preset/Patrol/Pattern	8 Patrols, up to 48 presets each patrol, 4 patterns	
Video	Max. Image Resolution	60fps@(2688x1520)	
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG	
Network	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL	
Audio	Audio Compression	G.711/AAC/G.722/G.726	
System	Compatibility	API, HTTP, TCP, ONVIF Profile G & M & S & T	
	Event Trigger	Black/White List, Attributes Event, Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.	
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, PTZ Motion, HTTP Notification, etc.	
General	Housing	IP66/IK10(Optional)	IP66
	Wiper	-	Support

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		4G Solar-powered Traffic Sensing Camera	
	Model	SC211-NA/EU/AU	
	Appearance		
Capture Performance	Capture Rate	Up to 98%	
	Optimal Capture Distance	6m (With 6mm lens) ; 15m~20m (With 16mm lens)	
	Capture Range	3~15m (With 6mm lens) ; 10~25m (With 16mm lens)	
	Coverage	2 lanes (8m)	
	Nighttime Illumination Distance	Up to 15m (With 6mm lens) ; Up to 25m (With 16mm lens)	
	Capture Speed	Be recommended to use when the vehicle speed is <30km/h (With 6mm lens); Be recommended to use when the vehicle speed is <70km/h (With 16mm lens)	
Wireless Network	WLAN	802.11n/802.11g	
	Cellular	<b>4G LTE</b> NA: B2/B4/B5/B12/B13/B25/B26 EU: B1/B3/B7/B8/B20/B28 AU: B1/B2/B3/B4/B5/B7/B8/B28/B66	
	SIM Card	Nano SIM	
Camera	Image Sensor	1/2.8" Progressive Scan CMOS	
	Day/Night Mode	Day/Night/Auto	
	IR Wave Length	850nm (Default); 740nm (Optional)	
Lens	Lens	16mm/6mm	
	Field of View	H19.4° /D22.2° /V11° (16mm) ; H52.8°/D60.4°/V29.7° (6mm)	
Image	Max. Resolution	1920x1080	
	Image Setting	Brightness/Contrast/Saturation/Sharpness	
General	GPS	Built-in High-accuracy GPS Module	
	Radar Working Frequency	24GHz	
	Protocol	MQTT/HTTP	
	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 256G	
	Solar Power	Power	≥35W
		OCV	<22V
		Connector	MC4
		Power Supply	USB Type-C
	Direct & Battery Power	Battery	7.2V, 6400mAh, 46.08Wh
		Battery Life	The power is 70% after 500 times of accumulative charging and discharging
	Power Consumption	288mW Normal (Detection Status); 1.166W Normal (Capture Status); 5.9W MAX (Night Capture Status)	
	Weather Proof	IP66	
	Operational Temperature	-20°C~60°C	
	Weight	1040g, 212g (Battery Weight)	
	Rain Cover Movement Distance	10mm	
Dimensions	175mmX111mmX63.2mm (Without Rain Cover)		
Warranty	2 Years		

## ENTRANCE & EXIT MANAGEMENT

















# Intelligent Traffic Series

## Parking Management


- Advanced AI LPR Algorithm
- LoRa Outstanding Performance
- Supplement Light for Better Image
- Low Power Consumption
- Flexible Compatibility
- Easy Deployment
- Excellent Scene Adaptability





		Entrance & Exit AI LPR Bullet Camera	Entrance & Exit AI LPR Pro Bullet Plus Camera	Entrance & Exit AI LPR Pro Dome Camera
Camera	Model	MS-C2964-RFLPE(2MP)	MS-C2966-RFLPE(2MP)	MS-C2972-RFLPE(2MP)
	Appearance			
	Image Sensor	1/2.8" Progressive Scan CMOS		
	Min. Illumination	Color: 0.005Lux@F1.4 B/W: 0Lux with IR on		
	WDR	140dB Super WDR		
	Illumination Distance	Up to 50m	Up to 65m	Up to 50m
	Lens	Motorized 2.7~13.5mm@F1.4		
Entrance & Exit Management	Field of View	H111°~H34°/D130°~D39° /V60°~V19°	H115°~H34°/D135°~D39° /V62°~V19°	
	Max. Vehicle Speed	120km/h		
	Recognition Accuracy	>98%		
	Coverage	2 lanes		
	Country/Region Supported	More than 80 countries and regions		
	ANPR Distance	Up to 25m during the day; Up to 20m during the night with illumination		
	Attributes Identification	Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture		
	Smart Traffic Function	Evidence Camera Linkage		
	White/Black List	Up to 20,000 records inside the camera		
Interface	LPR Smart Search	Support		
	Interface	PoE (802.3af), DC 12V; Audio I/O, Alarm I/O, PoE (802.3af), DC 12V (Multi-interface Version)	Audio I/O, Alarm I/O, PoE (802.3af), DC 12V	Built-in Microphone and 1 Audio Output Interface, Alarm I/O, PoE (802.3af), DC 12V
Video	Max. Image Resolution	60fps@(1920x1080)		
	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264/MJPEG		
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		
Audio	Audio Compression	G.711/AAC/G.722/G.726		
System	Compatibility	API, HTTP, TCP, ONVIF Profile G & M & S & T		
	Storage	microSD/SDHC/SDXC Card Local Storage, up to 1TB		
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark		
	Event Trigger	Black/White List, Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.		
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.		
General	Working Temperature /Humidity	-40°C~60°C/0~95%(Non-condensing)		
	Power Supply	PoE (802.3af) / DC 12V±10%		
	Housing	IP67/IK10		
	Dimensions/Weight	φ76mmX239.5mm/825g	301mmX108mmX126mm/1630g	φ143mmX108.4mm/1100g

		Entrance & Exit Supplement Light AI LPR Pro Bullet Plus Camera	
	Model	MS-C2966-RFLWPE /W (2MP)	MS-C2966-RFLWPE /R (2MP)
Camera	Appearance		
	Image Sensor	1/2.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.005Lux@F1.4 B/W: 0Lux with IR on	
	WDR	140dB Super WDR	
	Lens	Motorized 2.7~13.5mm@F1.4	
	Illumination Distance	Up to 65m	
	Field of View	H113°~H33°/D130°~D38°/V60°~V18°	
Entrance & Exit Management	Max. Vehicle Speed	120km/h	
	Recognition Accuracy	>98%	
	Coverage	2 lanes	
	Country/Region Supported	More than 80 countries and regions	
	ANPR Distance	Up to 25m during the day; Up to 25m during the night with illumination	
	Attributes Identification	Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture	
	Smart Traffic Function	Evidence Camera Linkage	
	White/Black List	Up to 20,000 records inside the camera	
Illuminator	LPR Smart Search	Support	
	Supplement Light	White LED Light	IR LED Light
	Light Bead	6 (For White LED Light)	9 (For IR LED Light)
	Light Control	Auto/Always On/Off/Customize	
Interface	Interface	Wiegand Interface, Audio I/O, Alarm I/O, PoE (802.3af), DC 12V	
Video	Max. Image Resolution	60fps@(1920x1080)	
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG	
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	
Audio	Audio Compression	G.711/AAC/G.722/G.726	
System	Compatibility	API, HTTP, TCP, ONVIF Profile G & M & S & T	
	Storage	microSD/SDHC/SDXC Card Local Storage, up to 1TB	
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark	
	Event Trigger	Black/White List, Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.	
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.	
General	Working Temperature /Humidity	-40°C~60°C/0~95%(Non-condensing)	
	Power Supply	PoE (802.3af) / DC 12V±10%	
	Housing	IP67	
	Dimensions/Weight	320mmX134mmX126mm/1630g 320mmX134mmX231mm/2075g (With Supplement Light)	



## INDOOR PARKING GUIDANCE CAMERA


Indoor Parking Guidance Camera		
	Model	PM3322-E(3MP*2)
Camera	Appearance	
	Image Sensor	1/2.8" Progressive Scan CMOS
	WDR	120dB Super WDR
	Min. Illumination	Color: 0.008Lux@F1.6
	Shutter Time	1/100000s~1s
	LED Indicator	The default colors are Red (all occupied), Green (available), and Blue (available for special parking). The default colors can be switched to Orange, Yellow, Cyan, and Purple as needed. Supports indicator flashing.
Parking Management	Parking Occupancy Detection Accuracy	≥99.9%
	LPR Accuracy	>98%
	Attribute Recognition Accuracy	>95%
	Parking Space Detection	Up to 6 Parking Spaces for Parking Detection with attributes recognition
	Attributes Identification	License Plate, Plate Color, Vehicle Type, Vehicle Color
	Country Region Supported	More than 60 countries and regions
Illuminator	Lens	2.8mm*2@F1.6
	Field of View	H106°/D127°/V56°
	Angle Adjustment	Pan: 0° to 60° Tilt: 0° to 30°
Video	Max. Image Resolution	2048x1536
	Video Compression	H.264
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)
	Image Setting	Brightness/Contrast/Saturation/Sharpness
Interface	Ethernet	2*RJ45 10M/100M Ethernet Port
	Audio Out	1
Network	Protocol	MQTT, TCP/IP, HTTP, HTTPS, RTSP, UPnP, DDNS, SNMP
General	Working Temperature	-40 C ~60 C
	Working Humidity	5~90%(Non-condensing)
	Power Supply	PoE (48V~0.3A)*2 (Non-standard) ; DC 12V±10% Note: There are two ways to connect the power supply. One is by using an optional AC Adapter to cascade up to 6 devices, supporting simultaneous power supply and networking without using the DC interface; the other is to deploy through a regular network port for networking and a DC port for power supply, without the AC Adapter.
	Power Consumption	6W MAX 8W MAX (With LED on)
	Weather Proof	Up to IP65-rated for Weather-resistant Performance
	Surge Protection	6KV
	Weight	500g
	Dimensions	Φ160mmX97.5mm
	Warranty	3/5 Years



		Entrance & Exit Supplement Light AI LPR Pro Bullet Plus Camera	
	Model	MS-C2966-RFLWPE /W (2MP)	MS-C2966-RFLWPE /R (2MP)
Camera	Appearance		
	Image Sensor	1/2.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.005Lux@F1.4 B/W: 0Lux with IR on	
	WDR	140dB Super WDR	
	Lens	Motorized 2.7~13.5mm@F1.4	
	Illumination Distance	Up to 65m	
	Field of View	H113°~H33°/D130°~D38°/V60°~V18°	
Entrance & Exit Management	Max. Vehicle Speed	120km/h	
	Recognition Accuracy	>98%	
	Coverage	2 lanes	
	Country/Region Supported	More than 80 countries and regions	
	ANPR Distance	Up to 25m during the day; Up to 25m during the night with illumination	
	Attributes Identification	Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture	
	Smart Traffic Function	Evidence Camera Linkage	
	White/Black List	Up to 20,000 records inside the camera	
	LPR Smart Search	Support	
Illuminator	Supplement Light	White LED Light	IR LED Light
	Light Bead	6 (For White LED Light)	9 (For IR LED Light)
	Light Control	Auto/Always On/Off/Customize	
Interface	Interface	Wiegand Interface, Audio I/O, Alarm I/O, PoE (802.3af), DC 12V	
Video	Max. Image Resolution	60fps@(1920x1080)	
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG	
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	
Audio	Audio Compression	G.711/AAC/G.722/G.726	
System	Compatibility	API, HTTP, TCP, ONVIF Profile G & M & S & T	
	Storage	microSD/SDHC/SDXC Card Local Storage, up to 1TB	
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark	
	Event Trigger	Black/White List, Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.	
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.	
General	Working Temperature /Humidity	-40°C~60°C/0~95%(Non-condensing)	
	Power Supply	PoE (802.3af) / DC 12V±10%	
	Housing	IP67	
	Dimensions/Weight	320mmX134mmX126mm/1630g 320mmX134mmX231mm/2075g (With Supplement Light)	

## AIOT INDOOR PARKING MANAGEMENT

		Semi-Industrial LoRaWAN® Gateway	Mini LoRaWAN® Gateway
	Model	UG65	UG63
Device	Appearance		
Hardware System	CPU	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53	528 MHz, ARM Cortex-A7
	Memory	512 MB DDR4 RAM	256 MB DDR4 RAM
	Flash	8 GB eMMC	4 GB eMMC
LoRaWAN®	Antenna	2 x Internal Antennas (Optional: 1 x 50 Ω N-Female External Connector)	2 x Internal Antennas
	Channel	8 (Half/Full-duplex)	
	Frequency Band	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4	
	Sensitivity	-140dBm Sensitivity @292bps	
	Output Power	27dBm Max	
	Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C	
	Ethernet Interface	Port	1 × RJ45 (PoE PD supported)
Physical Layer		10/100/1000 Base -T (IEEE 802.3)	
Data Rate		10/100/1000 Mbps (Auto-Sensing)	10/100Mbps (Auto-Sensing)
Wi-Fi Interface	Standards	IEEE 802.11 b/g/n, 2.4GHz	
	Mode	AP or Client mode	Full or Half Duplex (Auto-Sensing)
Power Supply and Consumption	Power Input	DC Jack Connector for 9-24 VDC power supply 1 x 802.3 af PoE input	1 x 802.3af standard PoE input 5V by Type-C Port
	Power Consumption	Typical 2.9 W, Max 4.2 W	Max 3.3 W
Cellular Interface (Optional)	Antenna	Internal Antenna	-
	SIM Slot	1 (mini SIM-2FF)	-
Ingress Protection	Ingress Protection	IP65	IP30
Ethernet Isolation	Ethernet Isolation	1.5 kV RMS	

		LoRaWAN® Ultrasonic Distance/Level Sensor	
	Model	EM310-UDL	
Appearance	Appearance		
Wireless Transmission	Technology	LoRaWAN®	
	Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923	
	TxPower	16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)	
Measurement	Sensitivity	-137 dBm@300bps	
	Mode	OTAA/ABP Class A	
	Detection Range	3 – 450 cm	
	Detection Accuracy	± (1+0.3%*S) cm, S=distance	
	Distance Resolution	1 mm	
Configuration	Configuration	NFC Configuration via Mobile App	
Power Supply	Power Supply	2 x 3500 mAh ER17505 Li-SOCI2 battery	
Battery Life	Battery Life	Up to 10 years (10 min interval + 20 triggers per day)	
Ingress Protection	Ingress Protection	IP67	

▶ AI Network Camera

▼ NVR

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▶ PoE Switch

▶ Software



NDA



PoE



H.265



4K



ONVIF S&T



Transcoding



Dual Stream



RAID



N+1 Hot Spare



ANR



ANPR



VCA



Online Upgrade



Mobile Connection






HTML5

## 4K PoE NVR Series

- Up to 24\*PoE Plug and Play
- Up to 4\*10TB Storage
- Up to 48-CH Video Input
- Up to 4K Decoding Performance
- Multi-screen Output
- ANR/RAID/N+1 Hot Spare
- Storage Quota
- Dual Stream Recording
- HTML5 H.265 Streaming
- Transcoding
- POS Integration
- Online Upgrade
- Smart VCA Management
- Enterprise ANPR Management
- Smart People Counting Analytics
- Intelligent Face Detection Management
- Versatile Interfaces

## 4K H.265 PoE NVR SERIES

		PoE NVR 5000 Series			
Model		MS-N5008-PE	MS-N5016-PE	MS-N5016-NPE	
Device	Appearance	 380mm(W)X317.6mm(D)X51.8mm(H)/2.6Kg Rack Mountable Chassis (1.0U Standard)	 380mm(W)X317.6mm(D)X51.8mm(H)/2.7Kg Rack Mountable Chassis (1.0U Standard)	 380mm(W)X317.6mm(D)X51.8mm(H)/2.7Kg Rack Mountable Chassis (1.0U Standard)	
	Video/Audio Input	Network Video Input	8-CH/8*PoE Ports		16-CH/16*PoE Ports
	Incoming/Outcoming Bandwidth	80Mbps/50Mbps		160Mbps/160Mbps	
Video/Audio Output	HDMI Output	1-CH, Resolution: 3840x2160/30Hz, 1920x1080/60Hz, 1920x1080/50Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz, HDMI Supports Audio Output			
	VGA Output	1-CH, Resolution: 1920x1080/60Hz, 1920x1080/50Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz			
	Recording Resolution	8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/D1/VGA/CIF/QCIF			
	Synchronous Playback	1*(30fps @8MP), 1*(30fps @6MP), 1*(30fps @5MP), 2*(30fps @4MP), 2*(30fps @3MP), 4*(30fps @1080P), 8*(30fps @720P)	1*(30fps @8MP), 2*(30fps @6MP), 2*(30fps @5MP), 3*(30fps @4MP), 4*(30fps @3MP), 6*(30fps @1080P), 12*(30fps @720P)	3*(30fps @8MP), 4*(30fps @6MP), 4*(30fps @5MP), 5*(30fps @4MP), 8*(30fps @3MP), 12*(30fps @1080P), 16*(30fps @720P), 16*(30fps @D1)	
Video/Audio Compression	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264			
	Audio Compression	G.711/AAC/G.722/G.726			
	Sample Rate	8KHz/16KHz			
Storage	SATA	2*SATA HDD(3.5")			
	Capacity	Up to 20TB capacity for each HDD			
Recording Management	Recording Type	Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)			
	Playback	General Playback, Event Playback, Tag Playback, Split Playback, Picture Playback			
Backup	Backup	Video Backup, Image Backup			
Network	Protocol	IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, NTP, SNTP, SMTP, SNMP, UPnP, NFS			
External Interface	Network Interface	1*RJ45 10/100/1000Mbps			
	USB Interface	2*USB 2.0			
	Audio Input/Output	1*RCA/1*RCA			
	Alarm Input/Output	4-CH/1-CH			
PoE Interface	Interface	8*RJ45 10/100Mbps	16*RJ45 10/100Mbps		
	Power Output	≤120W	≤200W		
	Supported Standard	IEEE 802.3af/at			
General	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Human Detection, People Counting, Object Left, Object Removed			
	Power Supply	AC 100V~240V 50Hz~60Hz			
	Consumption	≤9W (Without HDD, without enabling PoE)	≤8.5W(Without HDD, without enabling PoE)		
	Working Conditions	Temperature: -10°C~55°C/Humidity: 10%~90%			




COLOR SERIES  
MINI SERIES  
PRO SERIES  
PTZ SERIES  
PANORAMIC SERIES  
TRAFFIC SERIES  
NVR SERIES  
POE SWITCH  
SOFTWARE  
ACCESSORIES

## 4K H.265 NVR SERIES



### 4K NVR Series

- Up to 8\*10TB Storage
- Up to 64-CH Video Input
- Up to 4K Decoding Performance
- Multi-screen Output
- Dual Lan Giga Network Ports
- ANR/RAID/N+1 Hot Spare
- Storage Quota
- Dual Stream Recording
- Transcoding
- HTML5 H.265 Streaming
- POS Integration
- Online Upgrade
- Smart VCA Management
- Enterprise ANPR Management
- Smart People Counting Analytics
- Intelligent Face Detection Management
- Versatile Interfaces





		PoE NVR 5000 Series		
Model		MS-N5008-E	MS-N5016-E	MS-N5016-NE
Device	Appearance	 380mm(W)X317.6mm(D)X51.8mm(H)/1.9Kg Rack Mountable Chassis (1.0U Standard)	 380mm(W)X317.6mm(D)X51.8mm(H)/1.9Kg Rack Mountable Chassis (1.0U Standard)	 380mm(W)X317.6mm(D)X51.8mm(H)/1.9Kg Rack Mountable Chassis (1.0U Standard)
	Video/Audio Input	Network Video Input	8-CH	16-CH
	Incoming/Outcoming Bandwidth	80Mbps/50Mbps		160Mbps/160Mbps
Video/Audio Output	HDMI Output	1-CH, Resolution: 3840x2160/30Hz, 1920x1080/60Hz, 1920x1080/50Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz, HDMI Supports Audio Output		
	VGA Output	1-CH, Resolution: 1920x1080/60Hz, 1920x1080/50Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz		
	Recording Resolution	8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/D1/VGA/CIF/QCIF		
	Synchronous Playback	1*(30fps @8MP), 2*(30fps @6MP), 2*(30fps @5MP), 3*(30fps @4MP), 4*(30fps @3MP), 6*(30fps @1080P), 8*(30fps @720P)	1*(30fps @8MP), 2*(30fps @6MP), 2*(30fps @5MP), 3*(30fps @4MP), 4*(30fps @3MP), 6*(30fps @1080P), 12*(30fps @720P)	3*(30fps @8MP), 4*(30fps @6MP), 4*(30fps @5MP), 5*(30fps @4MP), 8*(30fps @3MP), 12*(30fps @1080P), 16*(30fps @720P), 16*(30fps @D1)
Video/Audio Compression	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264		
	Audio Compression	G.711/AAC/G.722/G.726		
	Sample Rate	8KHz/16KHz		
Storage	SATA	2*SATA HDD(3.5")		
	Capacity	Up to 20TB capacity for each HDD		
	ANR	Support		
Recording Management	Recording Type	Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)		
	Playback	General Playback, Event Playback, Tag Playback, Split Playback, Picture Playback		
Backup	Backup	Video Backup, Image Backup		
Network	Protocol	IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, NTP, SNTP, SMTP, SNMP, UPnP, NFS		
External Interface	Network Interface	1*RJ45 10/100/1000Mbps		
	USB Interface	2*USB 2.0		
	Audio Input/Output	1*RCA/1*RCA		
	Alarm Input/Output	4-CH/1-CH		
General	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Human Detection, People Counting, Object Left, Object Removed		
	Power Supply	AC 100V~240V 50Hz~60Hz		
	Consumption	≤3W(Without HDD)	≤4W(Without HDD)	
	Working Conditions	Temperature: -10°C~55°C/Humidity: 10%~90%		



## ENTERPRISE NVR SERIES

### Enterprise NVR Series

- 16/32-CH Models Available, 64-CH/128-CH Coming Soon
- Pre-loaded with Milesight VMS Enterprise
- Windows System
- Central Management for Single Site & Multiple Sites
- High Scalability
- AI & IoT Capabilities
- Ready-to-go Design for Easy Installation
- N+M Failover

		Enterprise NVR Series			
	Model	VE0601-A	VE0602-A	VE1604-A	VE1608-A
Device	Appearance				
Devices	Included Camera Access License	16	32	COMING SOON	
Recording	Recording Schedule	16	32		
Decoding	Video Format	MJPEG, H.264, H.265			
	Decoding Resolution	Up to 12 MP			
	Decoding Capability*	Display with 1080P Monitor D1(704*576)@25fps=36ch, 2MP(1920*1080)@25fps=25ch 5MP(2592*1944)@25fps=11ch, 12MP(4000*3000)@25fps=5ch			
Event & Alarm	Event and Alarm Rules	1000			
Users & Roles	Concurrent Accesses via Clients, App Clients	300			
	Users&Roles	1000/100			
System	Main Processor	2.0 GHz Intel Celeron Series			
	Memory	2*4GB DDR4	2*8GB DDR4		
	Network Interface	4*2.5 GbE RJ-45 ports			
	Operating System	Microsoft Windows 10 IoT Enterprise 64bit			
	GPU Options	Integrated GPU			
	Auto Power On	Support			
Auxiliary Interface	HDD Drives(Video Data)	6*SATA (3.5" or 2.5")			
	SSD Drive (Operating System)	M.2 SSD(1*256 GB Pre-installed)			
	RAM	2*SO-DIMM DDR4 2666 Slot (2*4GB /2*8GB Pre-installed) Support Up to 16GB, Support Dual-Channel Mode			
	Capacity	Up to 20TB capacity for each disk			
	Recording Storage Capacity	Up to 72TB raw			
	LAN	4*2.5Gbps LAN			
	PCI-E	1*PCI-E4 slot			
	Display	1*HDMI Port1*DP Port, Support independent and synchronous display			
	Internal I/O	1*Power Connector(ATX_PWR 24pin), 1*Power Connector(CPU_PWR 4pin), 1*CPU Fan, 1*COM Connector (9pin), 1*Front Panel Connector			
	Audio	1* HD Audio Connector			
	USB Interface	Front panel: 2*USB 2.0, Rear panel: 2*USB 2.0, 2*USB 3.0			
	Power Supply	AC 100-240V, 50-60Hz			
General	Consumption	≤30W(without HDD)			
	Working Conditions	Temperature:0°C to 35°C (32°F to 95°F)/ Humidity 10% to 90% RH			

AI Network Camera ◀

NVR ◀

PoE Switch ◀

Software ▼

Smart Tools -

CMS -

M-Sight Pro -

Milesight Cloud -

VMS Enterprise -



# Software



## MILESIGHT SMART TOOLS

Search · Configuration · Calculation

- Unified management for network cameras and NVRs
- Batch settings for Milesight devices
- Online batch upgrade for Milesight devices
- Fast, comprehensive, and powerful calculation
- Efficiently calculation report PDF export



## MILESIGHT CMS

Live View · Playback · Electronic Map

- Central management system
- Fully integrated with Milesight network cameras and NVRs
- Comprehensive management via IP/Domain, P2P and Milesight DDNS
- H.265/H.264 video compression
- Flexible Playback Interface
- Support multiple monitors (Up to 256-CH each monitor)
- Support up to 256 devices
- Support Health Monitoring Board
- Support two-layer E-map
- Milesight VCA functions
- Support advanced functions like ANPR solution, Crowd Management solution, Heat Map and Auto Tracking, etc.



## MILESIGHT M-SIGHT PRO APP

H.265 & H.264 · Customized Stream Parameters · Dual Stream

iOS/Android supported

- Support Milesight Cloud Management
- Simultaneously manage Milesight network cameras and NVRs
- Support Client-side Dewarping for Fisheye Camera
- Support PTZ control and white LED control in live view
- Up to 64-CH simultaneous live view and 4-CH playback
- Add device via IP/Domain, P2P and Milesight DDNS
- Transcoding to get better playback performance
- Support Alarm Video Push notification
- One click to trigger Alarm Output
- One click to quick playback & playback with NAS, SD card files and HDD files
- Backup the captured images and recorded videos locally for monitoring
- Support up to 16X digital zoom



## Milesight Cloud Management

Device Binding · Device Management · Grouping

- Support binding the devices with the cloud accounts via Milesight Cloud
- Device Management and Account Management
- Support sharing the devices with another cloud account
- Support for device grouping and playing devices by group
- Support Device Transfer
- Support log search

# Software

## Milesight VMS Enterprise

ADVANCED C/S ARCHITECTURE / LIVE VIEW / PLAYBACK / VIDEO WALL



Manage Anytime with  
M-VMS Mobile



M-VMS Mobile

### 8 Value-added Features



#### Server-based AI Technology

- Smarter Vehicle-Human VCA
- People Counting & Occupancy Solution
- Server-based ANPR Technology



#### Smart Forensic Evidence

- Smart Video Synopsis
- Smart Search
- Evidence Lock & Bookmark
- Visual Timeline
- Split Playback
- Thumbnail Retrieval



#### Real-time Incident Response

- Multiple Ways of Notification
- E-map
- Video Wall
- Tour & Tour Plan



#### Flexible Evidence Management

- Unique EXE File
- Multiple OSD Formats
- Privacy Masking File Transcoding



#### Fault Tolerance Security

- Adaptive Streams
- Intuitive Dashboard
- Decoding with Multiple Graphics Cards
- Permissions and Privileges



#### Stable Performance

- N+M Failover
- Balance Distributed System Architecture



#### Remote Access

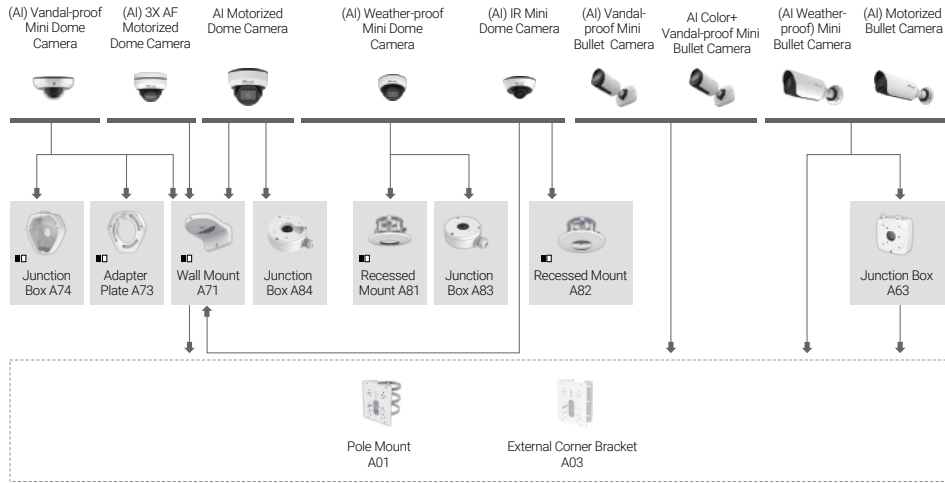
- M-VMS Mobile
- Advanced C/S Architecture
- P2P Connection



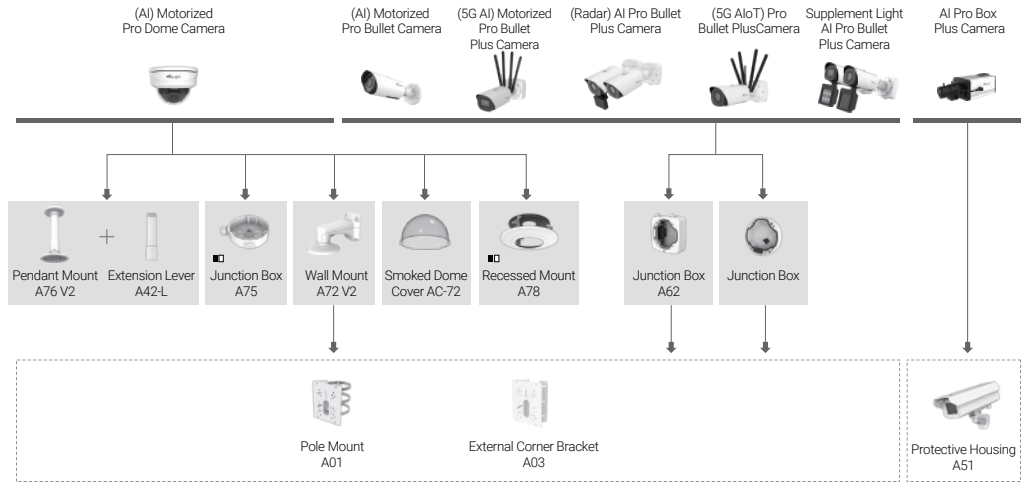
#### High Compatibility

- Compatible with 3rd Party Camera
- Multiple Fisheye Dewarping
- HTTP Event
- Milesight IoT Connectivity

## MINI SERIES



## PRO SERIES

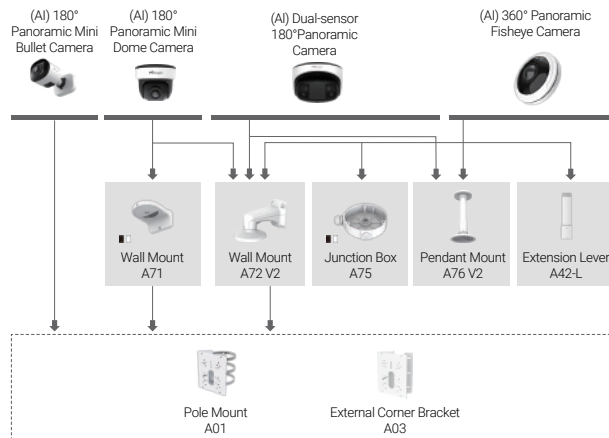


Mileight

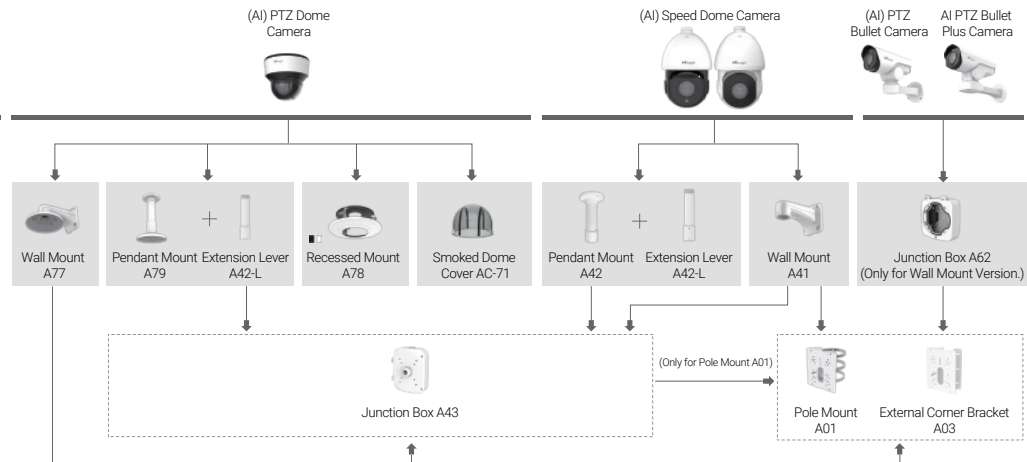
# ACCESSORIES MAP

V7.7

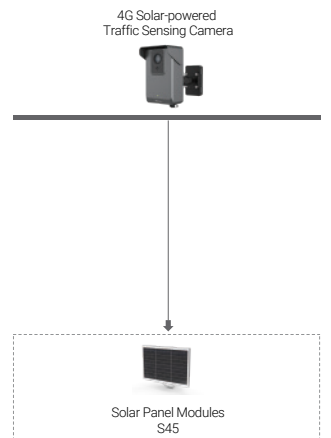
## PANORAMIC SERIES



## PTZ SERIES



## SPECIAL ACCESSORIES



# Accessories

## A01 Pole Mount

**Weight:**  
720g  
**Dimension:**  
170\*51.5\*152.6mm

**Applicable Model:**

(AI Weather-proof) Mini Bullet,  
(AI) Vandal-proof Mini Bullet  
(AI) Vandal-proof Motorized Mini Bullet,  
AI PTZ Bullet Plus, AI Color+ Vandal-proof Mini Bullet  
(AI) 180° Panoramic Mini Bullet & Dome,  
A41, A43, A62, A63, A71, A72, A77



## A03 External Corner Bracket

**Weight:**  
900g  
**Dimension:**  
170\*152.5\*76.3mm

**Applicable Model:**

(AI Weather-proof) Mini Bullet,  
(AI) Vandal-proof Mini Bullet  
(AI) Vandal-proof Motorized Mini Bullet,  
AI PTZ Bullet Plus, AI Color+ Vandal-proof Mini Bullet  
(AI) 180° Panoramic Mini Bullet & Dome  
A41, A62, A63, A71, A72, A77



## A41 Wall Mount

**Weight:**  
400g  
**Dimension:**  
200\*129\*100mm

**Applicable Model:**

(AI) Speed Dome



## A42 Pendant Mount

**Weight:**  
650g  
**Dimension:**  
φ116.5\*255mm

**Applicable Model:**

(AI) Speed Dome



## A42-L Extension Lever

**Weight:**  
325g  
**Dimension:**  
φ57\*255mm

**Applicable Model:**

A42, A79



## A43 Junction Box

**Weight:**  
1000g  
**Dimension:**  
195\*164\*80mm

**Applicable Model:**

A01, A41, A42

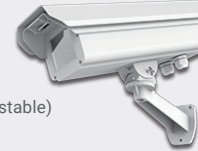


## A51 Protective Housing

**Weight:**  
1988g  
**Dimension:**  
380\*150\*H mm (H is adjustable)

**Applicable Model:**

Pro Box, AI Pro Box Plus



## A62 Junction Box

**Weight:**  
510g  
**Dimension:**  
134\*126\*40mm

**Applicable Model:**

(AI) Pro Bullet, (Radar) AI Pro Bullet Plus,  
(5G AIoT) Pro Bullet Plus Camera  
AI PTZ Bullet Plus,  
(AI) PTZ Bullet(Only for Wall Mount Version.)  
Supplement Light AI LPR Pro Bullet Plus



## A63 Junction Box

**Weight:**  
620g  
**Dimension:**  
134\*126\*40mm

**Applicable Model:**

(AI Weather-proof) Mini Bullet  
(AI) Vandal-proof Motorized Mini Bullet



## A71 Wall Mount

**Weight:**  
530g  
**Dimension:**  
162\*124\*78mm

**Applicable Model:**

(AI) IR Mini Dome,  
(AI) Vandal-proof Mini Dome,  
(AI) Weather-proof Mini Dome,  
(AI) 3X AF Motorized Dome,  
AI Motorized Dome Camera,  
(AI) 180° Panoramic Mini Dome



## A72 V2 Wall Mount

**Weight:**  
560g  
**Dimension:**  
242\*145\*132.7mm

**Applicable Model:**

(AI) Pro Dome,  
(AI) 360° Panoramic Fisheye  
AI Dual-sensor 180° Panoramic



## A73 Adapter Plate

**Weight:**  
28g  
**Dimension:**  
115\*122.5\*10mm

**Applicable Model:**

(AI) Vandal-proof Mini Dome



# Accessories

## A74 Junction Box

Weight:  
60g  
Dimension:  
121.5\*116.5\*37.2mm  
Applicable Model:  
[\(AI\) Vandal-proof Mini Dome](#)



## AC-71 Smoked Dome Cover

Weight:  
120g  
Dimension:  
Φ136.8\*92.5mm  
Applicable Model:  
[\(AI\) PTZ Dome](#)



## AC-72 Smoked Dome Cover

Weight:  
39g  
Dimension:  
Φ100\*56mm  
Applicable Model:  
[\(AI\) Pro Dome](#)



## A75 Junction Box

Weight:  
200g  
Dimension:  
145\*167\*33.5mm  
Applicable Model:  
[\(AI\) Pro Dome](#),  
[\(AI\) 360° Panoramic Fisheye](#)



## A76 V2 Pendant Mount

Weight:  
600g  
Dimension:  
145\*L (L is default as 290mm,  
also can be extended with A76-L)  
Applicable Model:  
[\(AI\) 360° Panoramic Fisheye](#)  
[\(AI\) Pro Dome](#)  
[AI Dual-sensor 180° Panoramic](#)



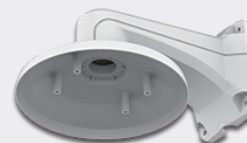
## A76-L Extension Lever

Weight:  
315g  
Dimension:  
Φ34\*300mm  
Applicable Model:  
[A76](#)



## A77 Wall Mount

Weight:  
650g  
Dimension:  
262\*185\*138mm  
Applicable Model:  
[\(AI\) PTZ Dome](#)



## A78 Recessed Mount

Weight:  
715g  
Dimension:  
Φ256\*94mm  
Applicable Model:  
[\(AI\) PTZ Dome](#), [\(AI\) Pro Dome](#)



## A79 Pendant Mount

Weight:  
850g  
Dimension:  
Φ185\*295mm  
Applicable Model:  
[\(AI\) PTZ Dome](#)



## A81 Recessed Mount

Weight:  
450g  
Dimension:  
Φ168.7\*91.3mm  
Applicable Model:  
[\(AI\) Weather-proof Mini Dome](#)  
*(Only for cable out version.)*



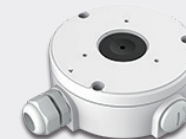
## A82 Recessed Mount

Weight:  
475g  
Dimension:  
Φ168.7\*91.3mm  
Installation Environment:  
For in-ceiling installations  
Applicable Model:  
[\(AI\) IR Mini Dome](#)



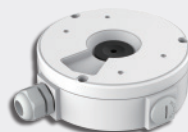
## A83 Junction Box

Weight:  
270g  
Dimension:  
Φ122\*45.5mm  
Applicable Model:  
[\(AI\) Weather-proof Mini Dome](#)



## A84 Junction Box

Weight:  
360g  
Dimension:  
Φ137\*47.6mm  
Installation Environment:  
For the containing of electrical connections which  
need to be concealed from sight and delete tampering  
Applicable Model:  
[AI Motorized Dome](#)



## S45 Solar Panel Modules

Weight:  
4.2kg  
Dimension:  
580\*385\*69mm  
Installation Environment:  
Generating and providing electricity for cameras  
Applicable Model:  
[4G Solar-powered Traffic Sensing Camera](#)





▪ Make Sensing Matter ▪

V3.4.2



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