

# Milesight

## NDAA

# AI Motorized Pro Bullet Plus Network Camera

IP67 + IK10

Motorized Lens



### DATASHEET



## Key Features

- ▶ NDAA Compliance (The fully NDAA-compliant products are well suited for government, defense and a range of projects subject to the NDAA.)
- ▶ Smart IR II (Combining the High Beam and Low Beam to adjust IR intensity to fit different lighting conditions.)
- ▶ HLC (High Light Compensation. Improving image visibility under strong light sources.)
- ▶ 140dB Super WDR (Excellent performance even when the ratio of the luminosity of brightest and darkest is up to 140dB.)
- ▶ 90fps High Frame Rate (Camera can easily catch images with no latency despite of the high-speed movement.)
- ▶ 1TB (Supporting ultra-large external microSD/SDHC/SDXC card storage up to 1TB.)
- ▶ Smart Stream (Bandwidth, storage and bit rate are saved with Smart Stream On, eg, H.265+ saves 70%~80% bandwidth that of H.264.)

## AI Video Analytics

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



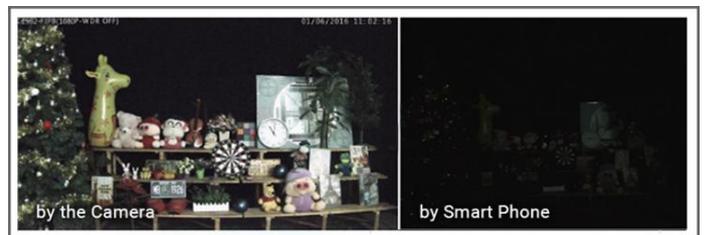
## 30fps@4K

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



## 0.002Lux Ultra Low-light

The starlight camera is able to deliver high detailed color images even in low light environment reaching 0.002Lux(Color) or 0Lux(B/W), and near infrared light environments without any supplementary lighting.



## Integrated Cable Management Bracket

Integrated Cable Management provides easier and faster installation for users. Versatile interfaces such as PoE, DC, Audio I/O and Alarm I/O are available. The well-designed integrated junction box also makes the cable connection neat and tidy.



# AI Motorized Pro Bullet Plus Network Camera



	Model	MS-C2966-R(T)F(I)PE (2MP)	MS-C4466-RF(I)PE (4MP)
Camera	Image Sensor	1/2.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.005Lux@F1.4 B/W: 0Lux with IR on	Color: 0.002Lux@F1.4 B/W: 0Lux with IR on
	WDR	140dB Super WDR	
	Shutter Time	1/100000s~1s	
	DORI Distance	D: 50~153m O: 20~60m R: 10~30m l: 5~15m(2.7~13.5mm) D: 129~305m O: 51~120m R: 25.5~60m l: 12.5~30m(7~22mm)	D: 67.5~151m O: 26.5~59m R: 13.5~29.5m l: 14.5~6.5m
	IR Distance	Up to 65m(3.0~10.5mm/2.7~13.5mm) Up to 100m(7~22mm)	Up to 65m
	Day/Night Mode	Day/Night/Auto/Customize/Schedule	
	S/N	>55dB	
	Lens	Lens	Motorized 2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4 P-Iris(Optional)
Field of View		H113°~H33°/D130°~D38° /V60°~V18° (2.7~13.5mm) H104°~H34°/D120°~D39° /V57°~V19° (3.0~10.5mm) H45°~H17°/D53°~D20° /V25°~V9° (7~22mm)	H100°~H45°/ D116°~D51°/V57°~V25°
Mount		Φ14	
Focus Control		Auto/Manual	
Iris Control (Optional for I Series)		Auto/Manual	
Video	Max. Image Resolution	1920x1080	2688x1520
	Primary Stream	60Hz: <b>90fps@(1920x1080)(Optional for T Series)</b> , 60fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: <b>90fps@(1920x1080)(Optional for T Series)</b> , 50fps@(1920x1080, 1280x960, 1280x720, 704x576)	60Hz: 60fps@(2688x1520, 2304x1296, 1920x1080, 1280x720) 50Hz: 50fps@(2688x1520, 2304x1296, 1920x1080, 1280x720)
	Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240)	
	Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 351x288, 320x240)	60Hz: 30fps@(1280x720, 704x576, 640x480, 640x360, 320x240), <b>60Hz: 15fps@(1920x1080)</b> 50Hz: 25fps@(1280x720, 704x576, 640x480, 640x360, 320x240), <b>50Hz: 15fps@(1920x1080)</b>
	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264/MJPEG	
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)	

# AI Motorized Pro Bullet Plus Network Camera



<b>Image</b>	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)			
	ROI	Up to 8 areas			
	Image Setting	Brightness/Contrast/Saturation/Sharpness			
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, Corridor Mode, LDC			
<b>Interface</b>	Ethernet	1*RJ45 10M/100M Ethernet Port			
	Audio I/O	1/1			
	Alarm I/O	1/1			
<b>Network</b>	Network Storage	NAS(Support NFS, SMB/CIFS), ANR			
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL,TLS 1.2			
<b>Audio</b>	Audio Compression	G.711/AAC/G.722/G.726			
	Audio Sampling Rate	8/16/32/44.1/48KHz			
	Audio Bit Rate	16~256kbps			
<b>Intelligent Analytics</b>	Video Analysis	VCA 2.0: Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Line Crossing, Loitering, Object Left, Object Removed			
	Attribute Extraction	Simultaneously detect up to 50 targets and capture humans and vehicles in real time. Recognize attributes including Upper and Lower Clothing Color, Hat, and Vehicle Types (Bicycle, Car, Motorcycle, Bus, Truck, E-scooter).			
	Face Detection&Face Attribute Recognition	Detect and capture faces, get real-time snapshots; The attributes include Age, Gender, Glasses, Mask and Cap; Support Faces Privacy Mode, the detected faces in the face detection area will be mosaic automatically.			
	Object Counting & Report	Count the number of objects crossing the line, optionally human and vehicle, Support regional people counting for up to 4 detection areas			
	Heat Map	The built-in statistical behavior analysis enables you to identify the busiest areas within the environment			
<b>Event</b>	Basic Event	Motion Detection, Tamper Detection, Network Disconnection, External Input, Audio Alarm, etc.			
	Exception	Network Disconnection, IP Address Filtering, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No SD Card, Watermark			
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.			
<b>System</b>	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB			
	SIP/VoIP Support	Yes, Voice & Video-over-IP			
	System Compatibility	ONVIF Profile G & M & S & T, API			
<b>General</b>	Working Temperature	-40°C~60°C			
	Working Humidity	0~95%(Non-condensing)			
	Power Supply	PoE (802.3af) / DC 12V±10%			
	Power Consumption	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border-right: 1px dashed black;">Min.: 3.5W (DC 12V), 4.2W(PoE)</td> <td style="width: 50%;">Min.: 3.5W (DC 12V), 4.2W(PoE)</td> </tr> <tr> <td style="border-right: 1px dashed black;">Max.: 13.5W (DC 12V), 16.1W(PoE)</td> <td>Max.: 13.5W (DC 12V), 16.1W(PoE)</td> </tr> </table>	Min.: 3.5W (DC 12V), 4.2W(PoE)	Min.: 3.5W (DC 12V), 4.2W(PoE)	Max.: 13.5W (DC 12V), 16.1W(PoE)
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# AI Motorized Pro Bullet Plus Network Camera



<b>General</b>	Surge Protection	4KV
	Weight	1630g
	Dimensions	301mmX108mmX126mm
	Warranty	3/5 Years
<b>Certifications</b>	EMC	CE-EMC (EN 55032, EN 55035), FCC (PART 15B)
	Safety	UL: UL 62368-1, CE-LVD (EN IEC 62368-1)
	Environment	CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU)
	Protection	IP67, IK10

# AI Motorized Pro Bullet Plus Network Camera



	Model	MS-C5366-F(I)PE (5MP)	MS-C6766-F(I)PE (6MP)
<b>Camera</b>	Image Sensor	1/2.8" Progressive Scan CMOS	1/2.4" Progressive Scan CMOS
	Min. Illumination	Color: 0.008Lux@F1.4 B/W: 0Lux with IR on	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on
	WDR	120dB Super WDR	
	Shutter Time	1/100000s~1s	
	DORI Distance	D: 67~204m O: 26.5~80.5m R: 13~40m I: 6.5~20m(2.7~13.5mm) D: 172~407m O: 68~160m R: 34~80m I: 17~40m(7~22mm)	D: 78.5~219m O: 31~86m R: 15.5~43m I: 7.5~21.5m
	IR Distance	Up to 65m(3.0~10.5mm/2.7~13.5mm) Up to 100m(7~22mm)	Up to 65m(2.7~13.5mm)
	Day/Night Mode	Day/Night/Auto/Customize/Schedule	
	S/N	>55dB	
<b>Lens</b>	Lens	Motorized 2.7~13.5mm/3.0~10.5mm/7~22mm@F1.4 P-Iris(Optional)	Motorized 2.7-13.5mm@F1.6 P-Iris(Optional)
	Field of View	H113°~H33°/D138°~D42°/V83°~V25° (2.7~13.5mm) H94°~H33°/D116°~D42°/V71°~V25°(3.0~10.5mm) H42°~H16°/D53°~D20°/V32°~V12° (7~22mm)	H112°~H38°/D129°~D44°/V61°~V22°
	Mount	Φ14	
	Focus Control	Auto/Manual	
	Iris Control (Optional for I Series)	Auto/Manual	
<b>Video</b>	Max. Image Resolution	2592x1944	3200x1800
	Primary Stream	60Hz: 30fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 60fps@(1920x1080, 1280x960, 1280x720) 50Hz: 25fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 50fps@(1920x1080, 1280x960, 1280x720)	60Hz: 30fps@(3200x1800, 2560x1440, 1920x1080, 1280x720) 50Hz: 25fps@(3200x1800, 2560x1440, 1920x1080, 1280x720)
	Secondary Stream	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240)	60Hz: 30fps@(1280x720, 640x480, 640x360) 50Hz: 25fps@(1280x720, 640x480, 640x360)
	Tertiary Stream	60Hz: 30fps@(2048x1536, 1920x1080, 1600x1200, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(2048x1536, 1920x1080, 1600x1200, 1280x720, 704x576, 640x480, 640x360, 320x240)	60Hz: 30fps(1280x720, 640x480, 640x360) 50Hz: 25fps(1280x720, 640x480, 640x360)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG	
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)	

# AI Motorized Pro Bullet Plus Network Camera



<b>Image</b>	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)
	ROI	Up to 8 areas
	Image Setting	Brightness/Contrast/Saturation/Sharpness
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, Corridor Mode, LDC
<b>Interface</b>	Ethernet	1*RJ45 10M/100M Ethernet Port
	Audio I/O	1/1
	Alarm I/O	1/1
<b>Network</b>	Network Storage	NAS(Support NFS, SMB/CIFS), ANR
	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,TLS 1.2
<b>Audio</b>	Audio Compression	G.711/AAC/G.722/G.726
	Audio Sampling Rate	8/16/32/44.1/48KHz
	Audio Bit Rate	16~256kbps
<b>Intelligent Analytics</b>	Video Analysis	VCA 2.0: Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Line Crossing, Loitering, Object Left, Object Removed
	Attribute Extraction	Simultaneously detect up to 50 targets and capture humans and vehicles in real time. Recognize attributes including Upper and Lower Clothing Color, Hat, and Vehicle Types (Bicycle, Car, Motorcycle, Bus, Truck, E-scooter).
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	Object Counting & Report	Count the number of objects crossing the line, optionally human and vehicle, Support regional people counting for up to 4 detection areas
	Heat Map	The built-in statistical behavior analysis enables you to identify the busiest areas within the environment
<b>Event</b>	Basic Event	Motion Detection, Tamper Detection, Network Disconnection, External Input, Audio Alarm, etc.
	Exception	Network Disconnection, IP Address Filtering, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No SD Card, Watermark
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.
<b>System</b>	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB
	SIP/VoIP Support	Yes, Voice & Video-over-IP
	System Compatibility	ONVIF Profile G & M & S & T, API
<b>General</b>	Working Temperature	-40°C~60°C
	Working Humidity	0~95%(Non-condensing)
	Power Supply	PoE (802.3af) / DC 12V±10%

# AI Motorized Pro Bullet Plus Network Camera



<b>General</b>	Power Consumption	Min.: 3.1W (DC 12V), 4W(PoE) Max.: 9W (DC 12V), 11W(PoE)	Min.: 3W (DC 12V), 4W(PoE) Max.: 8.6W (DC 12V), 10.5W(PoE)
	Surge Protection	4KV	
	Weight	1630g	
	Dimensions	301mmX108mmX126mm	
	Warranty	3/5 Years	
<b>Certifications</b>	EMC	CE-EMC (EN 55032, EN 55035), FCC (PART 15B)	
	Safety	UL: UL 62368-1, CE-LVD (EN IEC 62368-1)	
	Environment	CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU)	
	Protection	IP67, IK10	

# AI Motorized Pro Bullet Plus Network Camera

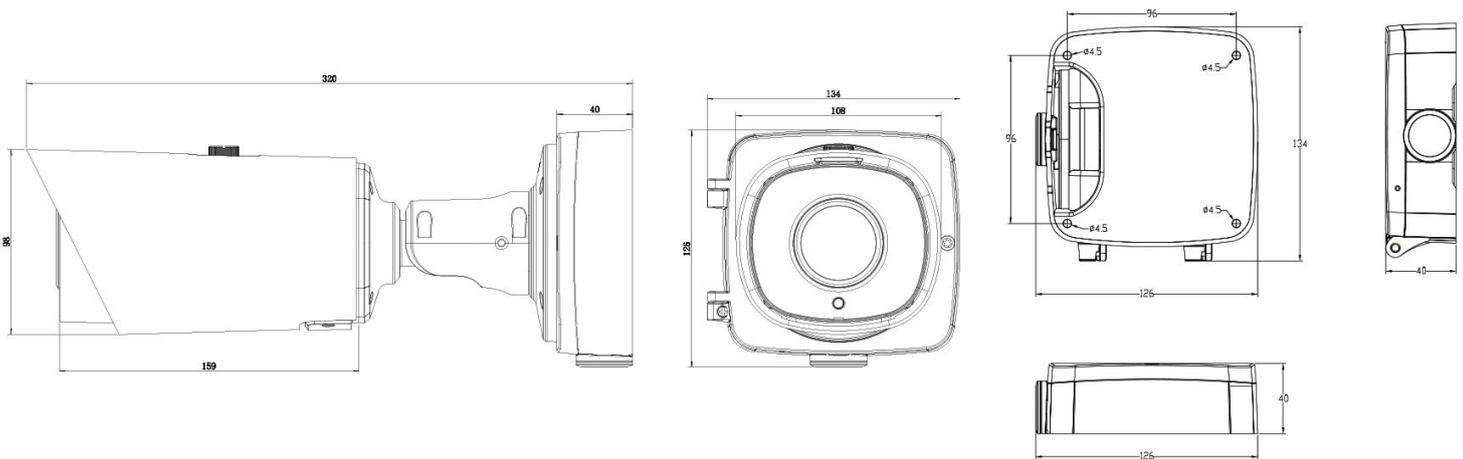
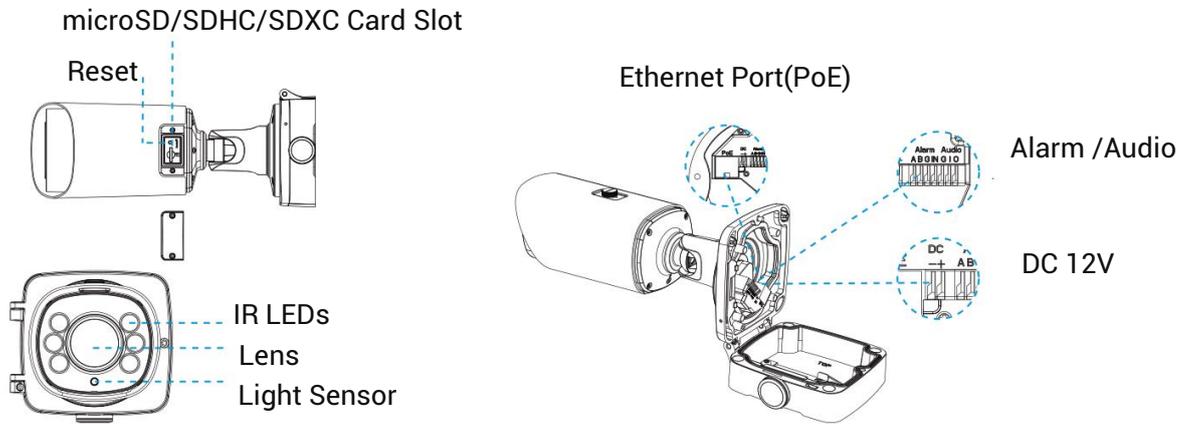


	Model	MS-C8166-F(I)PE (4K)	MS-C8266-F(I)PE (4K)
<b>Camera</b>	Image Sensor	1/2.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.012Lux@F1.4 B/W: 0Lux with IR on	Color: 0.009Lux@F1.4 B/W: 0Lux with IR on
	WDR	120dB Super WDR	
	Shutter Time	1/100000s~1s	
	DORI Distance	D: 92~281m O: 36~111m R: 18~55m I: 9~28m	D: 96~214m O: 38~84m R: 19~42m I: 9.5~21m
	IR Distance	Up to 65m	
	Day/Night Mode	Day/Night/Auto/Customize/Schedule	
	S/N	>55dB	
<b>Lens</b>	Lens	Motorized 2.7~13.5mm@F1.4 P-Iris(Optional)	Motorized 3.6~10mm@F1.4 P-Iris(Optional)
	Field of View	H110°~H33°/D118°~D38°/V60°~V18°	H116°~H48°/D134°~D55°/V65°~V27°
	Mount	Φ14	
	Focus Control	Auto/Manual	
	Iris Control (Optional for I Series)	Auto/Manual	
<b>Video</b>	Max. Image Resolution	3840x2160	
	Primary Stream	60Hz: 30fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576)	
	Secondary Stream	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240)	
	Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)	
	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264/MJPEG	
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)	
<b>Image</b>	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)	
	ROI	Up to 8 areas	
	Image Setting	Brightness/Contrast/Saturation/Sharpness	
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, Corridor Mode, LDC	
<b>Interface</b>	Ethernet	1*RJ45 10M/100M Ethernet Port	
	Audio I/O	1/1	
	Alarm I/O	1/1	





## Structure Diagrams



## Accessories Support

### A62 Junction Box(Default)

Weight: 510g

Dimensions: 134\*126\*40mm



### A02 V2 Pole Mount

Weight: 1kg

Dimensions: 180\*136\*46mm



### A03 External Corner Bracket

Weight: 900g

Dimensions: 170\*152.5\*76.3mm

