



Network Camera



Motorized Lens

IP67 + IK10

















DATASHEET













Key Features

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

Smarter Detection, Greater Accuracy

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



Crystal-Clear Video Streaming

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



Superior Low-light Performance

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



Rugged Industrial Design

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





	Model	MS-C2966-RFPG1 (2MP)	MS-C2966-RFIPG1 (2MP)
Camera	Image Sensor	1/2.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.003Lux@F1.4, B/W: 0Lux with IR on	Color: 0.001Lux@F1.2, B/W: 0Lux with IR on
	WDR	140dB Su	per WDR
	Shutter Time	1/100000s~1s	
	Day/Night Mode	Day / Night / Auto / Customize / Schedule	
	DORI Distance	D: 47m ~ 152m O: 18.5m ~ 59.8m R: 9.3m ~ 29.9m l: 4.7m ~ 14.9m	D: 47.8m ~ 134m O: 18.8m ~ 52.8m R: 9.5m ~ 26.4m l: 4.7m ~ 13.2m
	S/N	>55	dB
	Illuminator Number	ϵ	
Illuminator	IR Wave Length	850	nm
mammator	Illumination Distance	Up to 70m	Up to 80m
	Illuminator On/Off Control	Auto, Manual	
	Lens	Motorized 2.7mm~13.5mm@F1.4	Motorized 2.7mm~13.5mm@F1.2
	Field of View	H103.4° ~ H31.1° / D121.2° ~ D35.9° / V55.1° ~ V17.4°	H112.7° ~ H37.2° / D133.5° ~ D42.8° / V58.5° ~ V20.8°
	Close Focus Distance	W: 1m, T: 1m	
Lens	Camera Angle Adjustment	Pan: 0° ~ 360°, Tilt: 0° ~ 90°, Rotation: 0° ~ 360°	
Lens	Mount	Ф14	Ф17
	Focus Control	Auto/Manual	
	Aperture	Max.F1.4	Max.F1.2
	Iris Type	Fixed	P-Iris
	Iris Control	NA	Auto, Manual
	Max. Image Resolution	1920x1080	
	Primary Stream	60Hz: 60fps@(1920x1080, 1280x960, 1280x720) 50Hz: 50fps@(1920x1080, 1280x960, 1280x720)	
	Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360) 50Hz: 50fps@(704x576, 640x480, 640x360)	
Video	Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360)	
	Quaternary Stream	60Hz: 10fps@(1280x720), 30fps@(704x576, 640x480, 640x360) 50Hz: 10fps@(1280x720), 25fps@(704x576, 640x480, 640x360)	
	Video Compression	H.265+/H.265 (HEVC)/H.264+/H.264/MJPEG	
	Video Bit Rate	16Kbps~16Mbps (Cl	BR/VBR Adjustable)



	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)	
	ROI	Up to 8 Areas	
Image	Image Setting	Brightness/Contrast/Saturation/Sharpness	
illuge	Image Rotation	Off, Rotating 180°, Flip Horizontal, Flip Vertical, Clockwise 90°, Anticlockwise 90°	
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, LDC, DIS	
	Hybrid Zoom	Up to 40X	
	Network Storage	NAS (Support NFS, SMB/CIFS), ANR	
Network	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, LLDP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, VPN, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, TLS 1.2	
	Ethernet	1*RJ45 10M/100M Ethernet Port	
Interface	Audio I/O	1/1	
	Alarm I/O	2/2 (Alarm Output 2: Wet Contact, 10mA 12V DC)	
	Audio Compression	G.711/AAC/G.722/G.726	
Audio	Audio Sampling Rate	8/16/32/44.1/48KHz	
	Audio Bit Rate	16~256kbps	
	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.	
Intelligent Analytics	Object Counting & Report	Count the number of objects crossing the line, optionally human and vehicle. Support regional people counting for up to 4 detection areas	
•	Heat Map	The built-in statistical behavior analysis enables you to identify the busiest areas within the environment	
	Hard Hat Detection	Detect whether individuals are wearing safety hats. Trigger an alarm when a person is identified without a hard hat.	
	Privacy Protection	Automatically detect faces or human bodies in the video stream and overlay mosaic effects. Supported on Primary Stream/Secondary Stream, Compatible with H.265/H.264 formats.	
	Fall Detection	Detect a person's fall and trigger an alarm to alert others for timely assistance.	
	Violence Detection	Identify violent behavior and trigger an alarm to alert others to intervene or prevent the action.	



Event	One-Click Disarm	Support		
	Basic Event	Motion Detection, Tamper Detection, Aud	io Alarm, External Input, External Output etc.	
	Exception		illed, SD Card Full, SD Card Uninitialized, SD Card Error, No ard, etc.	
	Event Action	FTP Upload Record, SMTP Upload Record, SD Card Record, Snapshot, External Output, Play Audio, SIP Phone, HTTP Notification, etc.		
	Watermark	Support		
S. cata	Storage	Support Micro SD/SDHC/SD	CC Card Local Storage, up to 1TB	
System	SIP/VoIP Support	Yes, Voice &	k Video-over-IP	
	System Compatibility	ONVIF Profile G 8	& M & S & T, One API	
	Working Temperature	-40℃~60℃		
	Working Humidity	0~95% RH(Non-condensing)		
	Power Supply	PoE+ (802.3at) / DC 10V~DC 28V		
		Min.: 3.2W (DC), 3.9W (PoE+)		
	Power Consumption	24 Hour Average: 7.8W (DC), 9.4W (PoE+)		
General		Max.: 12.3W (DC), 14.6W (PoE+)	Max.: 12.8W (DC), 15.2W (PoE+)	
	Surge Protection	6KV		
	Net Weight	Approx. 1.6kg		
	Gross Weight	Approx. 2.4kg		
	Dimensions	320mm X 134mm X 126mm		
	Warranty	3 Years / 5 Years (Optional)		
Certifications	EMC	CE-EMC (EN 55032, EN 55035), FCC (PART 15B)		
	Safety	UL: UL 62368-1, CE-LVD (EN IEC 62368-1)		
	Environment	CE-ROHS (Directive (EU) 20	CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU)	
	Protection	IP67, IK10		

^{*}The tested results may vary due to environmental conditions and device differences.



Camera	Model	MS-C5366-RFPG1 (5MP)	MS-C5366-RFIPG1 (5MP)
	Image Sensor	1/2.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.006Lux@F1.4, B/W: 0Lux with IR on	Color: 0.004Lux@F1.2, B/W: 0Lux with IR on
	WDR	120dB Super WDR	
	Shutter Time	1/100000s~1s	
	Day/Night Mode	Day / Night / Auto / Customize / Schedule	
	DORI Distance	D: 84.6m ~ 273m O: 33.9m ~ 108m R: 16.6m ~ 53.8m I: 8.4m ~ 26.9m	D: 86.1m ~ 242m O: 33.9m ~ 95.1m R: 16.9m ~ 47.5m I: 8.5m ~ 23.8m
	S/N	>55	5dB
	Illuminator Number	6	5
Illuminator	IR Wave Length	850	0nm
Indiminator	Illumination Distance	Up to 65m	Up to 70m
	Illuminator On/Off Control	Auto / Manual	
	Lens	Motorized 2.7mm~13.5mm@F1.4	Motorized 2.7mm~13.5mm@F1.2
	Field of View	H93.8° ~ 32.1° / D121.5° ~ 44.7° / V68.2° ~ 22.2°	H93.7° ~ 32.9° / D121.1° ~ 40.7° / V68.2° ~ 24.7°
	Close Focus Distance	W: 0.5m, T: 1m	W: 1m, T: 1m
	Camera Angle Adjustment	Pan: 0° ~ 360°, Tilt: 0° ~ 90°, Rotation: 0° ~ 360°	
Lens	Mount	Ф14	Ф17
	Focus Control	Auto / Manual	
	Aperture	Max.F1.4	Max.F1.2
	Iris Type	Fixed	P-Iris
	Iris Control	NA	Auto / Manual
	Max. Image Resolution	2592 x 1944	
	Primary Stream	60Hz: 60fps@(2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720) 50Hz: 50fps@(2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720)	
	Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360) 50Hz: 50fps@(704x576, 640x480, 640x360)	
Video	Tertiary Stream	60Hz: 30fps@(2048x1536,1600x1200,1920x1080, 1280x720, 704x576, 640x480, 640x360) 50Hz: 25fps@(2048x1536,1600x1200,1920x1080, 1280x720, 704x576, 640x480, 640x360)	
	Quaternary Stream	60Hz: 10fps@(1280x720), 30fps@(704x576, 640x480, 640x360) 50Hz: 10fps@(1280x720), 25fps@(704x576, 640x480, 640x360)	
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG	
	Video Bit Rate	16Kbps ~ 16Mbps (C	CBR/VBR Adjustable)



Image	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)	
	ROI	Up to 8 Areas	
	Image Setting	Brightness / Contrast / Saturation / Sharpness	
	Image Rotation	Off, Rotating 180°, Flip Horizontal, Flip Vertical, Clockwise 90°, Anticlockwise 90°	
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, LDC, DIS	
	Hybrid Zoom	Up to 40X	
	Network Storage	NAS (Support NFS, SMB/CIFS), ANR	
Network	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, LLDP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, VPN, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, TLS 1.2	
	Ethernet	1*RJ45 10M/100M Ethernet Port	
Interface	Audio I/O	1/1	
	Alarm I/O	2/2 (Alarm Output2: Wet Contact, 10mA 12V DC)	
	Audio Compression	G.711/AAC/G.722/G.726	
Audio	Audio Sampling Rate	8/16/32/44.1/48KHz	
	Audio Bit Rate	16~256kbps	
	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	Detect and capture faces, get real-time snapshots.	
	Attribute Recognition	The attributes include Age, Gender, Glasses, Mask and Cap.	
Intelligent	Object Counting &	Count the number of objects crossing the line, optionally human and vehicle.	
Analytics	Report	Support regional people counting for up to 4 detection areas.	
	Heat Map	The built-in statistical behavior analysis enables you to identify the busiest areas within the environment	
	Hard Hat Detection	Detect whether individuals are wearing safety hats.	
		Trigger an alarm when a person is identified without a hard hat.	
	Privacy Protection	· ·	
	Fall Detection		
	Violence Detection	Identify violent behavior and triggers an alarm to alert others to intervene or prevent the action.	
	Fall Detection	Automatically detect faces or human bodies in the video stream and overlay mosaic effects. Supported on Primary Stream/Secondary Stream, Compatible with H.265/H.264 formats. Detect a person's fall and trigger an alarm to alert others for timely assistance.	



Event	One-Click Disarm	Support	
	Basic Event	Motion Detection, Tamper Detection, Audio Alarm, External Input, External Output etc.	
	Exception	Network Disconnection, IP Address Conflict, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No.	
	Event Action	FTP Upload Record, Snapshot, SMTP Upload Record, SD Card Record, External Output, Play Audio, SIP Phone, HTTP Notification, etc.	
	Watermark	Support	
Custom	Storage	Support Micro SD/SDHC/SDXC Card Local Storage, up to 1TB	
System	SIP/VoIP Support	Yes, Voice & Video-over-IP	
	System Compatibility	ONVIF Profile G & M & S & T, One API	
	Working Temperature	-40℃~60℃	
	Working Humidity	0~95% RH (Non-condensing)	
	Power Supply	PoE+ (802.3at) / DC 10V~DC 28V	
		Min.: 3.4W (DC), 4.1W (PoE+)	
	Power Consumption	24 Hour Average: 8W (DC), 9.7W (PoE+)	
General		Max.: 13.9W (DC), 16.3W (PoE+)	
	Surge Protection	6KV	
	Net Weight	Approx. 1.6kg	
	Gross Weight	Approx. 2.4kg	
	Dimensions	320mm X 134mm X 126mm	
	Warranty	3 Years / 5 Years (Optional)	
Certifications	EMC	CE-EMC (EN 55032, EN 55035), FCC (PART 15B)	
	Safety	UL: UL 62368-1, CE-LVD (EN IEC 62368-1)	
Certifications	Environment	CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU)	
	Protection	IP67, IK10	

^{*}The tested results may vary due to environmental conditions and device differences.



	Model	MS-C4466-RFIPG1 (4MP)	MS-C8266-RFIPG1 (4K)	
	Image Sensor	1/1.8" Progressive Scan CMOS		
	Min. Illumination	Color: 0.001Lux@F1.2, B/W: 0Lux with IR on Color: 0.0008Lux@F1.2, B/W: 0Lux with IR on		
	WDR	140dB Super WDR 120dB Super WDR		
Camera	Shutter Time	1/100000s~1s		
	DORI Distance	D: 69.3~149m O: 27.3~58.7 R: 13.6~29.3m I: D: 98.8m ~ 212m O:38.8m ~ 83.4m R:19.4m ~ 41.8m 6.9~14.7m I:9.7m ~20.8m		
	Day/Night Mode	Day / Night / Auto / Customize / Schedule		
	S/N	>55dB		
	Illuminator Number	6	5	
Illuminator	IR Wave Length	850	0nm	
	Illumination Distance	Up to	80m	
	Illuminator Control	Auto /	Auto / Manual	
	Lens	Motorized 2.8mm~12mm@F1.2		
	Field of View	H111.6° ~ H47.5° / D129.4° ~ D54.5° /V58.8° ~ V26.7°	H105.3° ~ H46.8° / D122.6° ~ D53.9° / V55.6° ~ V26.2°	
	Close Focus Distance	W: 1m, T: 1.5m		
_	Camera Angle Adjustment	Pan: 0° ~ 360°, Tilt: 0° ~	90°, Rotation: 0° ~ 360°	
Lens	Mount	Ф	17	
	Focus Control	Auto/N	vlanual	
	Aperture	Max.F1.2		
	Iris Type	P-Iris		
	Iris Control	Auto, Manual		
	Max. Image Resolution	2688x1520	3840x2160	
	Primary Stream	60Hz: 60fps@(2688×1520, 2304×1296, 1920×1080, 1280×720) 50Hz: 50fps@(2688×1520, 2304×1296, 1920×1080, 1280×720)	60Hz: 60fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720) 50Hz: 50fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720)	
Video	Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360), 50Hz: 50fps@(704x576, 640x480, 640x360)		
Video	Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360)		
	Quaternary Stream	60Hz: 10fps@(1280x720), 30fps@(704x576, 640x480, 640x360) 50Hz: 10fps@(1280x720), 25fps@(704x576, 640x480, 640x360)		
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG		
	Video Bit Rate	16Kbps~16Mbps (CBR/VBR Adjustable)		



	AI ISP	NA	Support	
Image	Privacy Masking	Up to 8 Areas (Mask Area ar	nd Mosaic Area are optional)	
	ROI	Up to 8	3 Areas	
	Image Setting	Brightness/Contrast/9	Saturation/Sharpness	
	Image Rotation	Off, Rotating 180°, Flip Horizontal, Flip V	ertical, Clockwise 90°, Anticlockwise 90°	
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defo	og, AWB, Deblur, Anti-flicker, LDC, DIS	
	Hybrid Zoom	Up to 32X		
	Network Storage	NAS (Support NFS	NAS (Support NFS, SMB/CIFS), ANR	
Network	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, LLDP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, VPN, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, TLS 1.2		
	Ethernet	1*RJ45 10M/100	OM Ethernet Port	
Interface	Audio I/O	1/1		
	Alarm I/O	2/2 (Alarm Output 2: We	2/2 (Alarm Output 2: Wet Contact, 10mA 12V DC)	
	Audio Compression	G.711/AAC/G.722/G.726		
Audio	Audio Sampling Rate	8/16/32/44.1/48KHz		
	Audio Bit Rate	16~25	6kbps	
	Video Analysis	VCA 2.0: Intrusion Detection, Region Entrance Line Crossing, Loitering, Ol		
	Attribute Extraction	Simultaneously detect up to 50 targets and Recognize attributes including Upper and Lower C Motorcycle, Bus,	lothing Color, Hat, and Vehicle Types (Bicycle, Car,	
	Face Detection & Face Attribute Recognition	Detect and capture faces, get real-time snapshots. The attributes include Age, Gender, Glasses, Mask and Cap.		
Intelligent	Object Counting &	Count the number of objects crossing	the line, optionally human and vehicle.	
Analytics	Report	Support regional people count	ing for up to 4 detection areas.	
-	Heat Map	The built-in statistical behavior analysis enables you	to identify the busiest areas within the environment	
	Hard Hat Detection	Detect whether individua Trigger an alarm when a person		
	Privacy Protection	Automatically detect faces or human bodies ir Supported on Primary Stream/Secondary Str	·	
	Fall Detection	Detect a person's fall and trigger an ala	rm to alert others for timely assistance.	
	Violence Detection	Identify violent behavior and trigger an alarm to	alert others to intervene or prevent the action.	

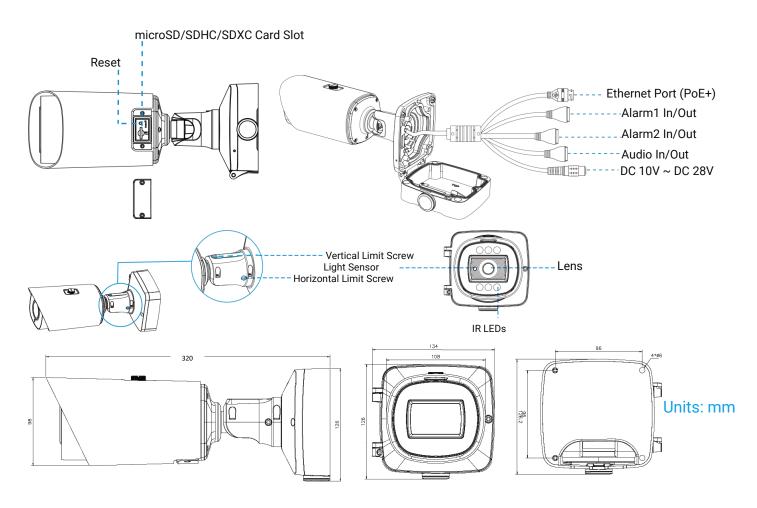


Event	One-Click Disarm	Support		
	Basic Event	Motion Detection, Tamper Detection, Audio Alarm, External Input, External Output etc.		
	Exception	Network Disconnection, IP Address Conflict, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No SD Card, etc.		
	Event Action	FTP Upload Record, SMTP Upload Record, SD Card Record, Snapshot, External Output, Play Audio, SIP Phone, HTTP Notification, etc.		
	Watermark	Support		
C t	Storage	Support Micro SD/SDHC/SDXC	Card Local Storage, up to 1TB	
System	SIP/VoIP Support	Yes, Voice & \	/ideo-over-IP	
	System Compatibility	ONVIF Profile G & I	л & S & T, One API	
	Working Temperature	-40°℃~60°℃		
	Working Humidity	0~95% RH (Non-condensing)		
	Power Supply	PoE+ (802.3at) / DC 10V~DC 28V		
		Min.: 3.4W (DC), 4.1W (PoE+)	Min.: 4W (DC), 4.9W (PoE+)	
	Power Consumption	24 Hour Average: 8W (DC), 9.7W (PoE+)	24 Hour Average: 5.5W (DC), 6.7W (PoE+)	
General		Max.: 13.8W (DC), 16.2W (PoE+)	Max.: 15.4W (DC), 17.8W (PoE+)	
	Surge Protection	6KV		
	Net Weight	Approx. 1.6kg		
	Gross Weight	Approx. 2.4kg		
	Dimensions	320mm X 134mm X 126mm		
	Warranty	3 Years / 5 Years (Optional)		
Certifications	EMC	CE-EMC (EN 55032, EN 55035), FCC (PART 15B)		
	Safety	UL: UL 62368-1, CE-LVD (EN IEC 62368-1)		
	Environment	CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU)		
	Protection	IP67, IK10		

^{*}The tested results may vary due to environmental conditions and device differences.



Structure Diagrams







Contact Us: sales@milesight.com support@milesight.com







