Milesight

2MP 25X AI Speed Dome Network Camera

360° Coverage Secures Here and There

360° Endless Pan	-5°~90° Tilt Range	2MP Image Resolution	25X Optical Zoom



NDAA

KEY FEATURES

- AI Intelligent Analytics
- PTZ Auto Tracking
- 140dB Super WDR
- IP66, IK10, NEMA 4X
- Wiper Supported (Optional)
- Metadata Transmission
- Flexible Pan, Tilt and Zoom Tasks
- 200m IR Length
- 60fps Frame Rate
- EIS with Gyroscope
- Multiple Interfaces (7*Alarm-In, 2*Alarm-Out)
- Support ONVIF GMST

AVAILABLE MODELS	MS-C2941-X25RPG1	M1	/W/M1

AI Speed Dome Network Camera

	Model	MS-C2941-X25RPG1/M1 (2MP)	MS-C2941-X25RPG1/W/M1 (2MP)
Camera	Image Sensor	1/2.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.007Lux@F1.5, B/W: 0Lux with IR on	
	WDR	140dB Super WDR	
	Shutter Time	1/100000s~1s	
	Day/Night Mode	Day/Night/Auto/Customize/Schedule	
	DORI Distance	D:68.94m-1613.21m; O:27.58m-645.29m; R:13.79m-322.64m; I:6.89m-161.32m	
	S/N	>55dB	
Lens	Lens	4.8~120mm, 25X Optical Zoom	
	Zoom Speed	Approx 4.6s(Wide-Tele by Manual)	
	Field of View	D65.8°~D4.3°/H59.5°~H3.8°/V33.8°~V1.6°	
	Optical Zoom	25X	
	Digital Zoom	8X	
	Minimum Working Distance	1000/1500mm (Wide/Tele)	
	Focus Control	Auto/Semi-Auto/Manual	
	Aperture	F1.5 ~ F3.5	
	Iris Type	Auto/Manual	
Illuminator	IR Distance	Up to 200 m	
	IR Wave Length	850nm	

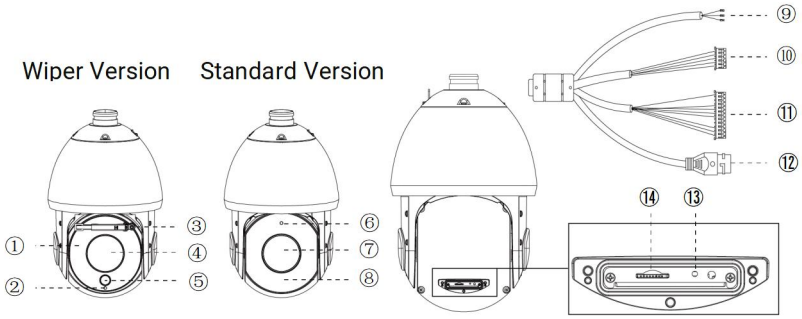
PTZ	Pan Range / Pan Speed	360°endless / Pan Manual Speed: 0.1°~250°/s, Pan Preset Speed: 250°/s
	Tilt Range / Tilt Speed	-5°~90°(Auto Flip) / Tilt Manual Speed: 0.1°~160°/s, Tilt Preset Speed: 160°/s
	Preset Quantity	300
	Preset Freezing	Support
	Patrol	8 Patrols, up to 48 presets each patrol
	Pattern	4 Patterns
	Power Off Memory	Support
	PTZ Status Display	Support
	Scheduled Task	Auto Scan,Preset,Patrol,Pattern,Self Check,Tilt Scan,Panorama Scan
	PT Auto-Correction	Supports gyroscope detection and self-calibration based on schedules and Patrol times.
	Other Function	3D Positioning, Auto Tracking, PTZ Limits, Initial Position
Video	Max. Image Resolution	1920x1080 (16:9)
	Primary Stream	60Hz: 60fps@(1920 x 1080, 1280 x 720) 50Hz: 50fps@(1920 x 1080, 1280 x 720)
	Secondary Stream	60Hz: 60fps@(704 x 576, 640 x 480, 640 x 360, 352 x 288, 320 x 240) 50Hz: 50fps@(704 x 576, 640 x 480, 640 x 360, 352 x 288, 320 x 240)
	Tertiary Stream	60Hz: 30fps@(1920 x 1080, 1280 x 720, 704 x 576, 640 x 480, 320 x 240) 50Hz: 25ps@(1920 x 1080, 1280 x 720, 704 x 576, 640 x 480, 320 x 240)
	Quaternary Stream	60Hz: 30fps@(1920 x 1080, 704 x 576, 640 x 480, 640 x 360) 50Hz: 25fps@(1920 x 1080, 704 x 576, 640 x 480, 640 x 360)
	Video Compression	Main stream: H.265+/H.265(HEVC)/H.264+/H.264/MJPEG Sub-stream: H.265+/H.265(HEVC)/H.264+/H.264/MJPEG Third stream: H.265+/H.265(HEVC)/H.264+/H.264/MJPEG Quaternary Stream: H.265+/H.265(HEVC)/H.264+/H.264
	Video Bit Rate	16Kbps~16Mbps (CBR/VBR Adjustable)

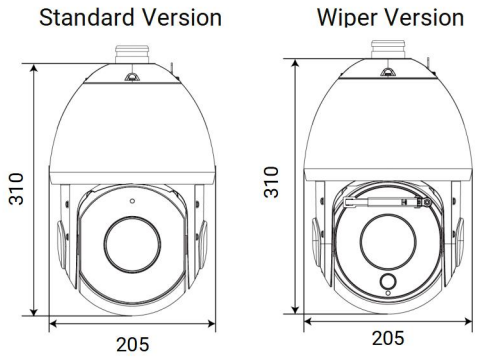
Image	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)
	ROI	Up to 8 areas
	Image Setting	Saturation/Brightness/Contrast/Sharpness
	Defog	Digital defog
	Image Stabilization	EIS (enhanced by gyroscope to improve performance)
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, AWB, Deblur, Anti-flicker, Corridor Mode, LDC
	Regional Exposure	Support
	Regional Focus	Support
Network	Network Storage	NAS(Support NFS, SMB/CIFS), ANR
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP,SRTP,RTSP, RTSPS,RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, LLDP, SIP, VPN, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL,TLS 1.2
Interface	Ethernet	1 RJ45 10M/100M Ethernet Port
	Alarm I/O	7 inputs, 2 outputs
	Audio I/O	1 input, 1 output
	RS485	1 RS485, Half duplex, Protocols: Pelco-P, Pelco-D, MS-Solar Power(proprietary), OSDP, NMEA - 0183
Audio	Audio Compression	G.711-ULaw/G.711-ALaw/AAC LC/G.722/G.726
	Audio Sampling Rate	G.711-ULaw/G.711-ALaw/AAC LC : 8/16/32/44.1/48KHz G.722: 16KHz / G.726: 8KHz
	Audio Bit Rate	16~256kbps
Intelligent Analytics	Video Analysis	VCA 3.0: Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Line Crossing, Loitering, Object Left, Object Removed
	Attribute Extraction	Supports simultaneous detection of up to 50 targets; real-time capture of humans and vehicles. Recognizes attributes: upper/lower clothing color, hat, vehicle type (bicycle, car, motorcycle, bus, truck, e-scooter).
	Face Detection&Face Attribute Recognition	Supports real-time face detection and snapshot. Recognizes face attributes: age, gender, glasses, mask, cap.
	Object Counting & Report	Supports line crossing counting for humans and vehicles; regional people counting for up to 4 areas.
	PPE Detection	Supports detection of safety hat and reflective vest usage; alarm is triggered for non-compliance.
	Privacy Protection	Supports automatic mosaic overlay for faces and human bodies. Supported on main/sub stream; compatible with H.265/H.264.
	Fall Detection	Supports detection of human falls; alarm trigger.
	Violence Detection	Supports detection of violent behavior; alarm trigger.

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, Snapshot, SMTP Upload Record, SD Card Record, External Output, Play Audio, SIP Phone, HTTP Notification, etc.	
System	On-board Storage	Support Micro SD/SDHC/SDXC Card Local Storage, up to 1TB	
	Reset Button	Support	
	Watermark	Support	
	SIP/VoIP Support	Yes, Voice & Video-over-IP	
	System Compatibility	ONVIF Profile G & M & S & T, Milesight API	
	Power Meter	Supports display of real-time, average, max power, and supply type. Supports power usage reports (30-min, 1h, 1d, 1 week, monthly).	
	Battery System	Battery status display and alarm (requires Milesight Solar Power System)	
	Location	Support configuration of camera orientation and GPS location information.	
General	Working Temperature	-40°C to 70°C (-40°F to 158°F)	
	Working Humidity	0~95% RH (Non-condensing)	
	Power Supply	PoE(802.3at) Class4 AC24V/DC24V/3A±20%	
	Power Consumption	Min.: 8.5W (DC), 9.2W (PoE+) 24 Hour Average: 13.3W (DC), 14.1W (PoE+) Max.: 23.4W (DC),25.4W (PoE+)	Min.: 10.2W (DC),10.5W (PoE+) 24 Hour Average: 14.2W (DC), 15W (PoE+) Max.: 23.8W (DC),25.4W (PoE+)
	Heating	Built-in heating glass for effective defog	
	Wiper	N/A	Support
	Weight	Net Weight: 4.60kg (6.17 lb) Gross Weight: 5.45kg (7.83 lb)	
	Dimensions	Φ205mmX310mm	
	Warranty	2 Years/3 Years(Optional)	
Certifications	EMC	CE-EMC(EN IEC 61000-3-2:2019+A2:2024,EN 61000-3-3:2013+A2:2021+AC:2022-01,EN 55032:2015+A1:2020,EN 55035:2017+A11:2020) FCC 47 CFR Part 15 Subpart B	
	Safety	CE-LVD (EN IEC 62368-1:2024 + A11:2024)	
	Environment	CE RoHS: Directive 2011/65/EU amended by (EU) 2015/863	
	Protection	IP66 (IEC 60529:2019) IK10 (IEC 62262:2021, excluding glass window) NEMA 4X(NEMA 250- 2020)	

Structure Diagrams

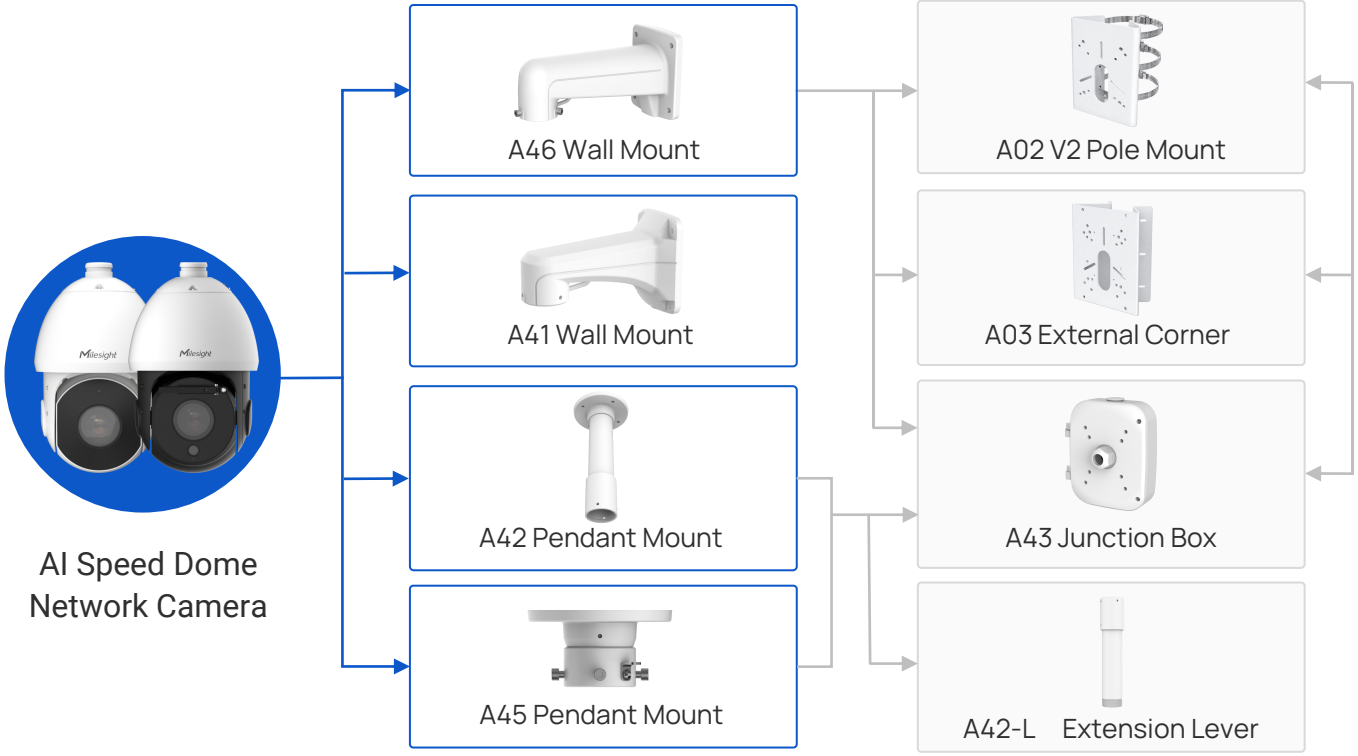
1. IR LEDs
2. Light Sensor
3. Wiper
4. Lens
5. Rain Gauge Smart Sensor
6. Light Sensor
7. Lens
8. IR LEDs
9. AC 24V
10. RS485 & Audio IN & Audio OUT
11. Alarm IN x 7 & Alarm OUT x 2
12. Ethernet Port
13. Reset Button
14. Micro SD/SDHC/SDXC Card Slot





Units: mm

Accessories Support



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