Milesight

NDAA

AI 25X/30X/36X/42X Speed Dome Network Camera



AI | H.265+ HEVC | Starlight | Super WDR | IR | Privacy Masking | SD HD | GMST ONVIF | PoE | Weather Proof

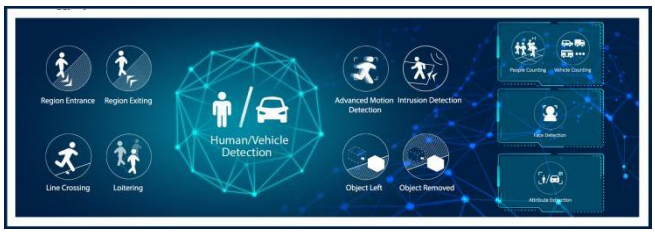
DATASHEET

Key Features

- Smart IR II (Combining the High Beam and Low Beam to adjust IR intensity to fit different lighting conditions.)
- 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.)
- 0.005Lux Starlight (Deliver high detailed color images even in low light environment reaching 0.005Lux.)
- Smart PTZ Motion Detection (Pan and tilt to the position of motion detected area automatically and zoom in synchronously.)
- IR Distance up to 300m (Enabling 300 meters distinct images at night with IR LEDs.)
- 300 Preset Positions (The user can easily control the lens position via mouse to monitor interested area and set up to 300 preset positions for patrolling.)
- Keyboard Control (Shortcut keys for PTZ control via Milesight Keyboard.)
- 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 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.
- Face Detection function detects human faces in the monitoring scene and captures the snapshots, which greatly enhances the monitoring



Intelligent PTZ Auto Tracking

With AI detection, Milesight Network Camera could leverage motor mechanism to perform Pan/Tilt/Zoom to track the moving human or vehicle automatically and adjust zoom status flexibly according to the target distance with the powerful optical zoom capability.



Up to 42X Optical Zoom

Embedded with optical zoom lens, the cameras' resolution is up to 42X optical zoom which allows the user to zoom up to distant objects while still maintaining the clarity and delivering high quality video over the entire zoom range.



30fps@4K

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



AI 25X/30X/36X/42X Speed Dome Network Camera



	Model	MS-C2941-X25R(T)PE (TS) (2MP)	MS-C2941-X30R(T)PE (TS) (/W) (2MP)	MS-C5341-X25PE(TS) (5MP)	MS-C5341-X30PE (TS) (/W) (5MP)
Camera	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	
	Shutter Time	1/100000s~1s			
	DORI Distance	D: 86~1870m O: 33.5~734m R: 17~367m I: 8.5~184m	D: 82.5~2020m O: 32.5~796m R: 16~398m I: 8~199m	D: 114~2490m O: 45~979m R: 22.5~490m I: 11~245m	D: 110~2700m O: 43~1060m R: 22~530m I: 11~265m
	Digital Zoom	16X			
	Day/Night Mode	Day/Night/Auto/Customize/Schedule			
	S/N	>55dB			
Lens	Focal Length	4.8~120mm, **25X** Optical Zoom	4.7~141mm, **30X** Optical Zoom	4.8~120mm, **25X** Optical Zoom	4.7~141mm, **30X** Optical Zoom
	Zoom Speed	Approx 6s (Wide-Tele)	Approx 6s (Wide-Tele)	Approx 6s (Wide-Tele)	Approx 6s (Wide-Tele)
	Field of View	H61.6°~H2.8°/D70.8°~D3.2° /V36.8°~V1.5°	H62°~H2.3°/D70°~D2.7°/ V37°~V1.3°	H57°~H2.8°/D69.8°~D3.2° /V43.8°~V1.5°	H58°~H2.3°/D71°~D2.7°/ V44°~V1.3°
	Focus Control	Auto/Semi-Auto/Manual			
	Minimum Working Distance	100/1500mm (Wide/Tele)	100/1500mm (Wide/Tele)	100/1500mm (Wide/Tele)	100/1500mm (Wide/Tele)
	Aperture	F1.5~F3.5	F1.5~F4.0	F1.5~F3.5	F1.5~F4.0
	Iris Control	Auto			
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			
	Proportional Zoom	Support			
	Preset Quantity	300			
	Patrol	8 Patrols, up to 48 presets each patrol			
	Pattern	4 Patterns			
	Auto Tracking	Support			
	Power Off Memory	Support			
	Other Function	Auto Scan, Auto Home, Preset Freezing, 3D Positioning, PTZ Limits, Initial Position			
IR	IR Distance	Up to 200m	Up to 200m Up to 400m(Wipe Version)	Up to 200m	Up to 200m Up to 400m(Wipe Version)
	IR Angle	Auto/Manual			
Video	Max. Image Resolution	1920x1080		2592x1944	
	Primary Stream	60Hz: **90fps@(1920x1080)(Optional for T Series)**, 60fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: **90fps@(1920x1080)(Optional for T Series)**, 50fps@(1920x1080, 1280x960, 1280x720, 704x576)		60Hz: 30fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 60fps@(1920x1080, 1280x960, 1280x720) 50Hz: 25fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 50fps@(1920x1080, 1280x960, 1280x720)	
	Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240)		60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240)	

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Video	Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)		60Hz: 30fps@(2048x1536, 1920x1080, 1600x1200, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(2048x1536, 1920x1080, 1600x1200, 1280x720, 704x576, 640x480, 640x360, 320x240)	
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG			
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)			
Image	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)			
	ROI	Up to 8 areas			
	Image Setting	Brightness/Contrast/Saturation/Sharpness			
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, Corridor Mode, LDC			
Interface	Ethernet	1*RJ45 10M/100M Ethernet Port			
	Audio I/O	1/1			
	Alarm I/O	4/2			
	RS485	Support			
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, LLDP, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL,TLS 1.2			
Audio	Audio Compression	G.711/AAC/G.722/G.726			
	Audio Sampling Rate	8/16/32/44.1/48KHz			
	Audio Bit Rate	16~256kbps			
Intelligent Analytics	Video Analysis	VCA 2.0: Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Line Crossing, Loitering, Object Left, Object Removed			
	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 and 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			
Event	Basic Event	Motion Detection, Tamper Detection, External Output, 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, etc.			
	Event Action	FTP Upload, Snapshot, SMTP Upload, SD Card Record, SIP Phone, Play Audio, PTZ Motion, HTTP Notification, etc.			
System	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB			
	SIP/VoIP Support	Yes, Voice & Video-over-IP			
	System Compatibility	ONVIF Profile G & M & S & T, API			
General	Working Condition	Temperature: -40℃~60℃ / Humidity: 0~95%(Non-condensing)			
	Power Supply	PoE (802.3at) / AC 24V / DC 24V / 3A±10%			
	Power Consumption	Min.: 11.4W (DC 24V / AC 24V), 12.4W(PoE) Max.: 25.6W (DC 24V / AC 24V), 28.7W(PoE)	Min.: 12.5W (DC 24V / AC 24V), 17.6W(PoE) Max.: 23W (DC 24V / AC 24V), 28W(PoE)	Min.: 10.5W (DC 24V / AC 24V), 12.4W(PoE) Max.: 25W (DC 24V / AC 24V), 27.7W(PoE)	Min.: 10.6W (DC 24V / AC 24V), 11.6W(PoE) Max.: 22.7W (DC 24V / AC 24V), 25.2W(PoE)
	Heater	Support			
	Wiper (Optional)	-	Support	-	Support



General	Surge Protection	6KV
	Dimensions/Weight	Φ205mmX310mm/4Kg
	Warranty	2 Years / 3 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	IP66, IK10(Optional)

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	Model	MS-C4441-X36RPE (TS) (/W) (4MP)	MS-C2941-X42R(T)PE (TS) (/W) (2MP)	MS-C5341-X42PE(TS) (/W) (5MP)	MS-C8241-X36PE(TS) (/W) (4K)
Camera	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@F1.8 B/W: 0Lux with IR on	Color: 0.008Lux@F1.8 B/W: 0Lux with IR on	Color: 0.009Lux@F1.55 B/W: 0Lux with IR on
	WDR	140dB Super WDR	120dB Super WDR		
	Shutter Time	1/100000s~1s			
	DORI Distance	D: 151~4240m O: 60~1670m R: 30~835m I: 15~417m	D: 109~4670m O: 43~1840m R: 21.5~918m I: 11~459m	D: 145~6220m O: 57~2450m R: 28.5~1220m I: 14~612m	D: 151~4240m O: 59.5~1670m R: 30~835m I: 15~417m
	Digital Zoom	16X			
	Day/Night Mode	Day/Night/Auto/Customize/Schedule			
	S/N	>55dB			
Lens	Focal Length	5.7~205.3mm, **36X** Optical Zoom	7~300mm, **42X** Optical Zoom	7~300mm, **42X** Optical Zoom	5.7~205.2mm, **36X** Optical Zoom
	Zoom Speed	Approx 7s (Wide-Tele)	Approx 7s (Wide-Tele)	Approx 7s (Wide-Tele)	Approx 7s (Wide-Tele)
	Field of View	H63°~H2.2°/D69°~D2.5° / V38°~V1.2°	H45°~H1°/D50°~D1.2°/ V27°~V0.6°	H43°~H1°/D53°~D1.2°/ V33°~V0.6°	H65°~H2.3°/D72°~D2.6°/ V40°~V1.3°
	Focus Control	Auto/Semi-Auto/Manual			
	Minimum Working Distance	1500/1500mm (Wide/Tele)	1200/1500mm (Wide/Tele)	1200/1500mm (Wide/Tele)	1500/1500mm (Wide/Tele)
	Aperture	F1.4~F4.8	F1.8~F6.5	F1.8~F6.5	F1.55~F4.8
	Iris Control	Auto			
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			
	Proportional Zoom	Support			
	Preset Quantity	300			
	Patrol	8 Patrols, up to 48 presets each patrol			
	Pattern	4 Patterns			
	Auto Tracking	Support			
	Power Off Memory	Support			
	Other Function	Auto Scan, Auto Home, Preset Freezing, 3D positioning, PTZ Limits, Initial Position			

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IR	IR Distance	Up to 400m			
	IR Angle	Auto/Manual			
Interface	Ethernet	1*RJ45 10M/100M Ethernet Port			
	Audio I/O	1/1			
	Alarm I/O	4/2			
	RS485	Support			
Video	Max. Image Resolution	2688x1520	1920x1080	2592x1944	3840x2160
	Primary Stream	60Hz: 60fps@(2688x1520, 2304x1296, 1920x1080, 1280x720) 50Hz: 50fps@(2688x1520, 2304x1296, 1920x1080, 1280x720)	60Hz: **90fps@(1920x1080) (Optional for T Series),** 60fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: **90fps@(1920x1080) (Optional for T Series),** 50fps@(1920x1080, 1280x960, 1280x720, 704x576)	60Hz: 30fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 60fps@(1920x1080, 1280x960, 1280x720) 50Hz: 25fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 50fps@(1920x1080, 1280x960, 1280x720)	60Hz: 30fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576)
	Secondary Stream	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240)			
	Tertiary Stream	60Hz: 30fps@(1280x720, 704x576, 640x480, 640x360, 320x240), **60Hz: 15fps@(1920x1080)** 50Hz: 25fps@(1280x720, 704x576, 640x480, 640x360, 320x240), **50Hz: 15fps@(1920x1080)**	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)	60Hz: 30fps@(2048x1536, 1920x1080, 1600x1200, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(2048x1536, 1920x1080, 1600x1200, 1280x720, 704x576, 640x480, 640x360, 320x240)	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)
	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG			
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)			
Image	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)			
	ROI	Up to 8 areas			
	Image Setting	Brightness/Contrast/Saturation/Sharpness			
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, Corridor Mode			
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, LLDP, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL,TLS 1.2			
Audio	Audio Compression	G.711/AAC/G.722/G.726			
	Audio Sampling Rate	8/16/32/44.1/48KHz			
	Audio Bit Rate	16~256kbps			

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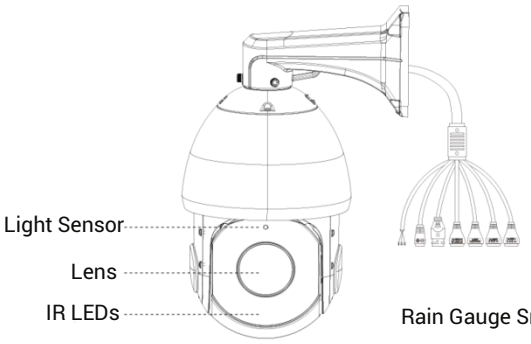


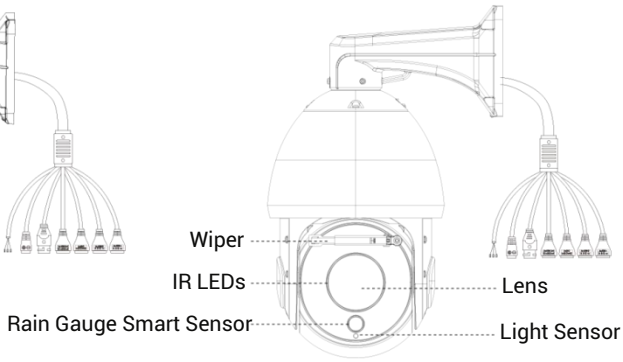
Intelligent Analytics	Video Analysis	VCA 2.0: Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Line Crossing, Loitering, Object Left, Object Removed			
	Attribute Extraction	Simultaneously detect up to 50 targets and capture humans and vehicles in real time. Recognize 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.			
	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			
Event	Basic Event	Motion Detection, Tamper Detection, External Output, 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, Snapshot, SMTP Upload, SD Card Record, SIP Phone, Play Audio , PTZ Motion, HTTP Notification, etc.			
System	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB			
	SIP/VoIP Support	Yes, Voice & Video-over-IP			
	System Compatibility	ONVIF Profile G & M & S & T, API			
General	Working Condition	Temperature: -40℃~60℃ / Humidity: 0~95%(Non-condensing)			
	Power Supply	PoE (802.3at) / AC 24V / DC 24V / 3A±10%			
	Power Consumption	Min.: 11.3W (DC 24V / AC 24V), 12.4W(PoE) Max.: 24.5W (DC 24V / AC 24V), 26.8W(PoE)	Min.: 10.5W (DC 24V / AC 24V), 11.2W(PoE) Max.: 21.7W (DC 24V / AC 24V), 24.2W(PoE)	Min.: 10.3W (DC 24V / AC 24V), 11.3W(PoE) Max.: 23W (DC 24V / AC 24V), 25.5W(PoE)	Min.: 11.5W (DC 24V / AC 24V), 14.5W(PoE) Max.: 24.5W (DC 24V / AC 24V), 28.4W(PoE)
	Heater	Support			
	Wiper(Optional)	Support			
	Surge Protection	6KV			
	Dimensions/Weight	Φ205mmX310mm/4Kg			
	Warranty	2 Years / 3 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	IP66, IK10(Optional)			

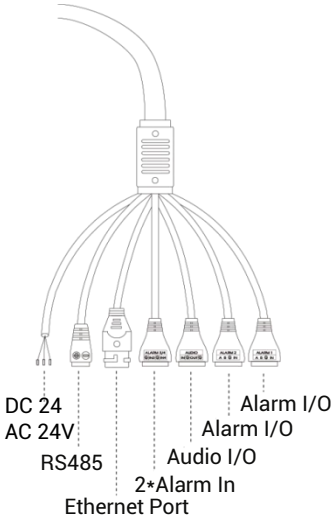
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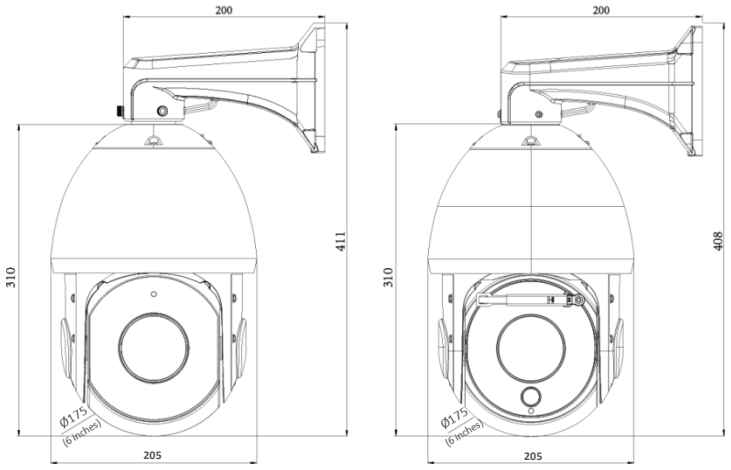


Structure Diagrams

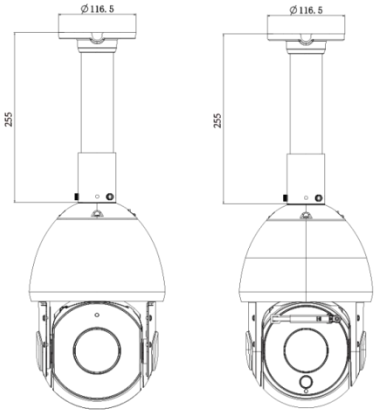








Wall Mount



Ceiling Mount

A41 Wall Mount(Default)
Material: Aluminium alloy
Weight: 400g
Dimensions: 200*129*100mm



A02 V2 Pole Mount
Material: Metallic
Weight: 1kg
Dimensions:180*136*46mm



A03 External Corner Bracket
Material: Metallic
Weight: 900g
Dimensions: 170*152.5*76mm



A42 Pendant Mount
Material: Aluminium alloy
Weight: 650g
Dimensions: 116.5*255mm



A42-L Extension Lever
Material: Aluminium alloy
Weight: 330g
Dimension: Φ55*255mm



A43 Junction Box
Material: Aluminium alloy
Weight: 1kg
Dimensions: 195*164*80mm



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