Milesight

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

NDAA



AI | H.265+ HEVC | Starlight | Super WDR | IR | Privacy Masking | SD HC | 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 efficiency.



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-X30R(T)PE (/W) (2MP)
Camera	Image Sensor	1/2.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.005Lux@F1.5, B/W: 0Lux with IR on
	WDR	140dB Super WDR
	Shutter Time	1/100000s~1s
	DORI Distance	D: 82.5~2020m O: 32.5~796m R: 16~398m I: 8~199m
	Digital Zoom	16X
	Day/Night Mode	Day/Night/Auto/Customize/Schedule
	S/N	>55dB
Lens	Focal Length	4.7~141mm, **30X** Optical Zoom
	Zoom Speed	Approx. 6s (Wide-Tele)
	Field of View	H62°~H2.3°/D70°~D2.7°/ V37°~V1.3°
	Focus Control	Auto/Semi-Auto/Manual
	Minimum Working Distance	100/1500mm (Wide/Tele)
	Aperture	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 300m (Wiper Version)
	IR Angle	Auto/Manual

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



Video	Max. Image Resolution	1920x1080
	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)
	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, 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, LDC
Interface	Ethernet	1*RJ45 10M/100M Ethernet Port
	Audio I/O	1/1 (Standard)
	Alarm I/O	4/2 (Standard)
	RS485	Standard
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, VPN, 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

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

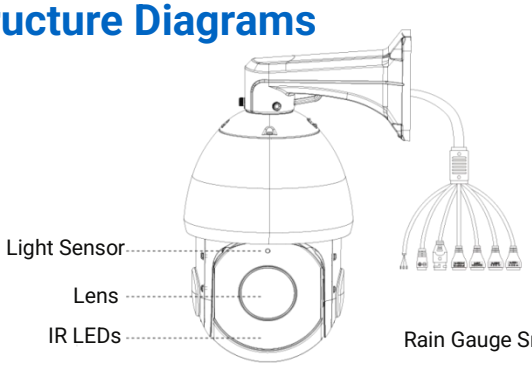


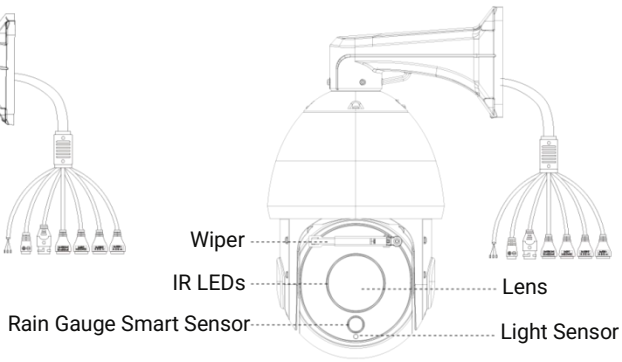
Event	Basic Event	Motion Detection, Tamper Detection, External Output, External Input, Audio Alarm, etc.
	Exception	Network Disconnection, IP Address Filtering, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No SD Card
	Event Action	FTP Upload Record, Snapshot , SMTP Upload Record, SD Card Record, SIP Phone, Play Audio, PTZ Motion, HTTP Notification, etc.
System	Watermark	Support
	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.: 12.5W (DC 24V / AC 24V), 17.6W(PoE) Max.: 23W (DC 24V / AC 24V), 28W(PoE)
	Heater	Support
	Wiper (Optional)	Support
	Surge Protection	6KV
	Dimensions/Weight	Φ205mmX310mm / Approx. 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)

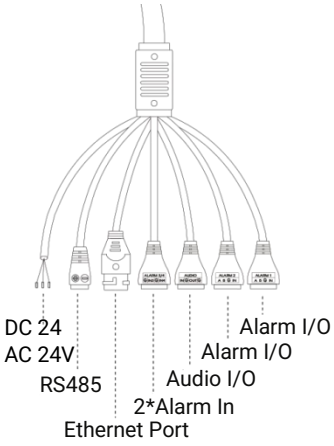
AI 25X/30X/36X/42X Speed Dome Network Camera

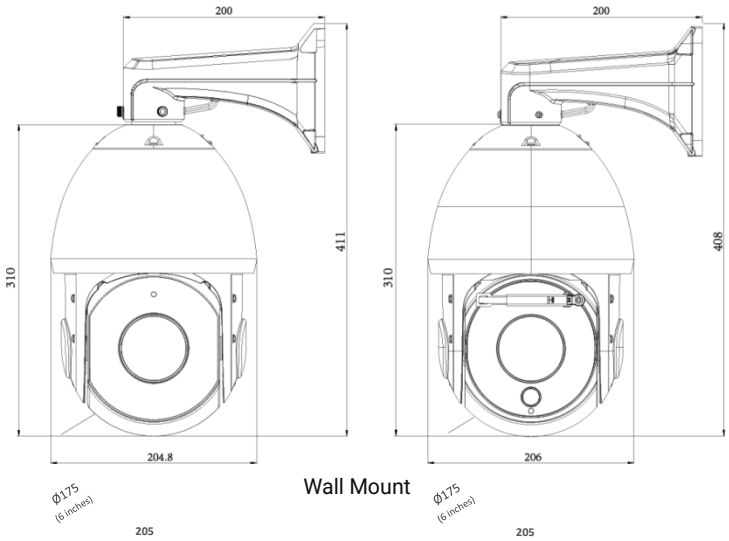


Structure Diagrams

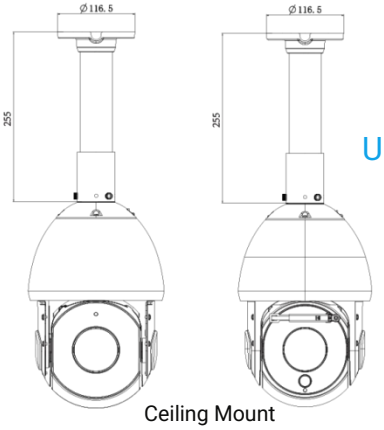








Wall Mount

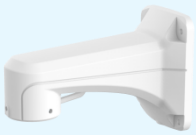


Ceiling Mount

Units: mm

Accessories Support





A41 Wall Mount



A42 Pendant



A02 V2 Pole Mount



A03 External Corner Bracket



A43 Junction Box



A42-L Extension Lever