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

NDAA

DATASHEET

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

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.

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	Model	MS-C5341-X42PE (/W) (5MP)
Camera	Image Sensor	1/2.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.005 Lux@F1.6 B/W: 0.0005 Lux@F1.6 With IR on: 0 Lux@F1.6
	WDR	120dB Super WDR
	Shutter Time	1/100000s~1s
	DORI Distance	D: 145~6220m O: 57~2450m R: 28.5~1220m I: 14~612m
	Digital Zoom	16X
	Day/Night Mode	Day/Night/Auto/Customize/Schedule
	S/N	>55dB
Lens	Focal Length	3.98~177mm, **45X** Optical Zoom **16X** Digital Zoom
	Zoom Speed	Approx. 7s (Wide-Tele)
	Field of View	H65°~H2°/D53°~D1.2°/ V33°~V0.6°
	Focus Control	Auto/Semi-Auto/Manual
	Minimum Working Distance	1200/1500mm (Wide/Tele)
	Aperture	F1.8~F6.5
	Iris Control	Auto
PTZ	Speed	Movement with a preset speed of 400° per second horizontally and 300° per second vertically.
	Tilt Range/Tilt Speed	-10°~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 300m
	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	2592x1944
	Primary Stream	60Hz: 30fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 60fps@(1920x1080, 1280x960, 1280x720) 50Hz: 25fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 50fps@(1920x1080, 1280x960, 1280x720)
	Secondary Stream	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240)
	Tertiary Stream	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 24 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, 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

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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
	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.: 10.3W (DC 24V / AC 24V), 11.3W(PoE) Max.: 23W (DC 24V / AC 24V), 25.5W(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	IP67, IK10

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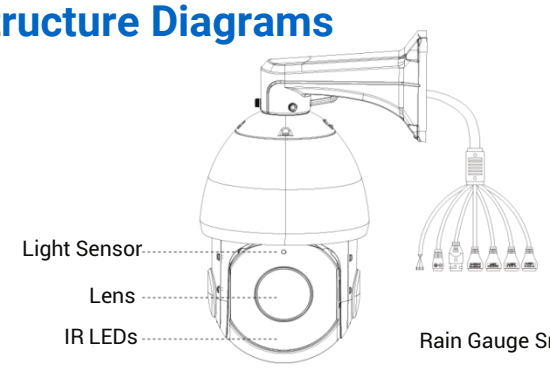
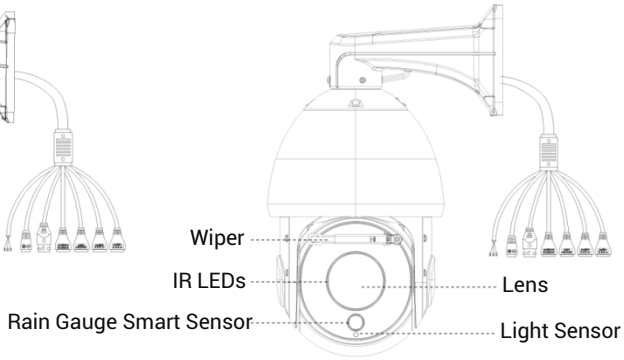
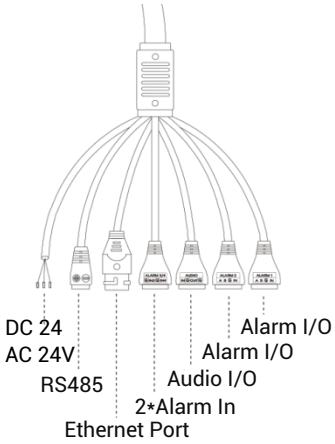
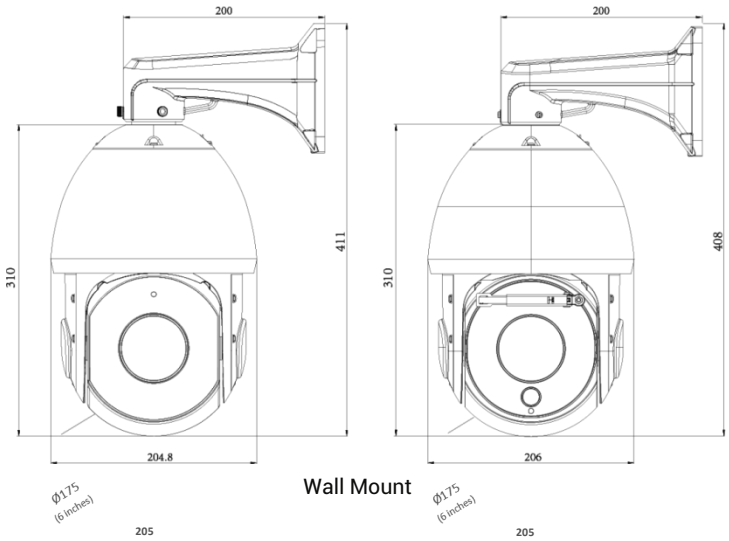
Structure Diagrams

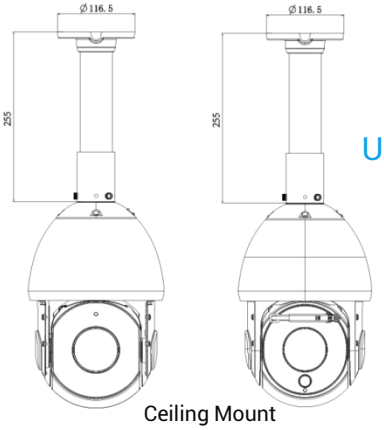








Wall Mount



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

Milesight | www.milesight.com
Contact Us: sales@milesight.com support@milesight.com

Add: Building C09, Software Park, Phase III, Xiamen 361024, Fujian, China
Tel:+86-592-5922772