

Key Features

- NDAA Compliance (Thefully NDAA-compliant products are well suited for government, defense and a range of projects subject to the NDAA.)
- ▶ 0.002Lux Starlight (Delivering detailed color image even in the low light environments reaching 0.002Lux(Color) or 0Lux(B/W).)
- 140dB Super WDR (Excellent performance even when the ratio of the luminosity of brightest and darkest is up to 140dB.)
- Advanced Functions (Boasting to support various advanced functions such as HLC, ROI.)
- > 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 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.)

Al Video Analytics

- 8 intelligent VCA modes powered by Al engine, which can intelligently filter objects to focus on human and vehicle detection.
- People Counting technology provides high accuracy and real-time data based on Al algorithm with statistic reports.
- Face Detection function detects human faces in the monitoring scene and captures the snapshots, which greatly enhances the monitoring efficiency.



High Speed & Precise Movement

With a sophisticated pan/tilt mechanism, the 12X/20X/23X Al PTZ Dome Network Camera provides fast, precise movement with 360° endless pan and $-5\sim90^{\circ}$ (Auto Flip). Maximum pan speed of 350° /s and tilt speed of 360° /s make the camera a mighty Speed Dome model.



Smart IR II Technology

It allows the camera to catch better images regardless of object distance with High Beams and Low Beams whose brightness could be adjusted manually or automatically. Also, the innovative IR Anti-reflection Panel protects the lens from IR interference.



Recessed Installation

With recessed installation, the 12X/20X/23X AI PTZ Dome Network Camera is easily blend in with the environment to provide discreet surveillance.





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Camera	Model	MS-C2971-X12R(T)PE	MS-C4471-X20RPE	MS-C2971-X23R(T)PE
		(2MP)	(4MP)	(2MP)
	Image Sensor	1/2.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.005Lux@F1.6	Color: 0.002Lux@F1.6	Color: 0.005Lux@F1.5
	Wiiii. iliaiiiiilaaloii	B/W: OLux with IR on	B/W: OLux with IR on	B/W: OLux with IR on
	WDR		140dB Super WDR	
	Shutter Time		1/100000s~1s	
	Digital Zoom		16X	
	Day/Night Mode	Day/Night/Auto/Customize/Schedule		
	S/N		>55dB	1
	Focal Length	5.3~64mm, 12X Optical Zoom	6.4~128mm, 20X Optical Zoom	5~117mm, 23X Optical Zoom
	Zoom Speed	Approx 4s (Wide-Tele)	Approx 5s (Wide-Tele)	Approx 6s (Wide-Tele)
	Field of View	H61°~H5°/D69°~D5°/V36°~V2°	H60°~H3°/D67°~D4°/V37°~V1°	H60°~H3°/D69°~D4°/ V35°~V2°
Lens	Focus Control		Auto/Semi-Auto/Manual	
	Minimum Working Distance	1000/1500mm(Wide/Tele)	100/2000mm(Wide/Tele)	100/1500mm (Wide/Tele)
	Aperture	F1.6~F2.8	F1.6~F4.0	F1.5~F3.5
	Iris Control		Auto	
	Pan Range / Pan Speed	360° endless; Par	n Manual Speed: 0.1°~350°/s, Pan Pre	set Speed: 350°/s
	Tilt Range / Tilt Speed	-5°~90° (Auto Flip); Tilt Manual Speed: 0.1°~360°/s, Tilt Preset Speed: 360°/s		
	Proportional Zoom	Support		
	Preset Quantity	300		
PTZ	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		
ID.	IR Distance	Up to 160m		
IR	IR Angle	Auto/Manual		
	Max. Image Resolution	1920x1080	2688x1520	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)	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)
	Secondary Stream	1280x960, 1280x720, 704x576) 1280x720, 704x576) 1280x720, 704x576) 60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240)		
Video	Secondary Stream	50Hz: 50fps@ 60Hz: 30fps@(1920x1080, 1280x720,	(704x576, 640x480, 640x360, 352x2 60Hz: 30fps@(1280x720,	88, 320x240) 60Hz: 30fps@(1920x1080, 1280x720,
	Tertiary Stream	704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)	704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1280x720, 704x576, 640x480, 640x360, 320x240)	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	1	16Kbps~16Mbps(CBR/VBR Adjustable)	



Video	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)	
	ROI	Up to 8 areas	
	Image Setting	Brightness/Contrast/Saturation/Sharpness	
Interface	Ethernet	1*RJ45 10M/100M Ethernet Port	
	Audio I/O	1/1	
	Alarm I/O	1/1	
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, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL,TLS 1.2	
	Audio Compression	G.711/AAC/G.722/G.726	
۸۰۰۰۰ م	Audio Sampling Rate	8/16/32/44.1/48KHz	
Audio	Audio Bit Rate	16~256kbps	
	Two-way Audio	Support	
	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection,	
		Line Crossing, Loitering, Object Left, Object Removed	
Intelligent	Face Detection&Face Attribute Recognition	Detect and capture faces, get real-time snapshots;	
Analytics		The attributes include Age, Gender, Glasses, Mask and Cap;	
7		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,	
	Ctorogo	Support regional people counting for up to 4 detection areas	
	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB BLC, HLC, 2D DNR, 3D DNR, Defog, AWB,	
	Advanced Function	IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark	
Contain	SIP/VoIP Support	Yes, Voice & Video-over-IP	
System			
	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.	
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, PTZ Motion, HTTP Notification, etc.	
	System Compatibility	ONVIF Profile G & M & S & T, API	
	Working Condition	Temperature: -40°C ~60°C / Humidity: 0~95%(Non-condensing)	
	Power Supply	PoE (802.3at) / DC 12V/3A \pm 10%	
	Power Consumption	12W MAX	
		20W MAX (With IR on)	
General	Weather Proof/Housing	Up to IP66-rated for Weather-resistant Performance / Vandal-proof IK10-rated Metal Housing	
	Surge Protection	4KV	
	Dimensions/Weight	Ф183mmX174.8mm/2Кg	
	Warranty	2 Years / 3 Years (Optional)	
	vvairanty	2 Teats / 3 Teats (Optional)	



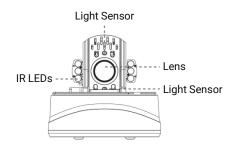
	Model	MS-C5371-X12PE (5MP)	
	Image Sensor	1/2.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.008Lux@F1.6 B/W: 0Lux with IR on	
	WDR	120dB Super WDR	
	Shutter Time	1/100000s~1s	
Camera	Digital Zoom	16X	
Camera	Day/Night Mode	Day/Night/Auto/Customize/Schedule	
	S/N	>55dB	
	Focal Length	5.3~64mm, 12X Optical Zoom	
	Zoom Speed	Approx 4s (Wide-Tele)	
	Field of View	H57°~H4°/D69°~D5°/V44°~V1°	
Lens	Focus Control	Auto/Semi-Auto/Manual	
	Minimum Working Distance	1000/1500mm(Wide/Tele)	
	Aperture	F1.6~F2.8	
	Iris Control	Auto	
	Pan Range / Pan Speed	360° endless; Pan Manual Speed: 0.1°~350°/s, Pan Preset Speed: 350°/s	
	Tilt Range / Tilt Speed	-5°~90° (Auto Flip); Tilt Manual Speed: 0.1°~360°/s, Tilt Preset Speed: 360°/s	
	Proportional Zoom	Support	
	Preset Quantity	300	
PTZ	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 Distance	Up to 160m	
IR	IR Angle	Auto/Manual	
	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)	
Video	Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240)	
110.00	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264/MJPEG	
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)	
	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)	
	ROI	Up to 8 areas	
	Image Setting	Brightness/Contrast/Saturation/Sharpness	
Interface	Ethernet	1*RJ45 10M/100M Ethernet Port	
	Audio I/O	1/1 V8.05	
	Alarm I/O	1/1	

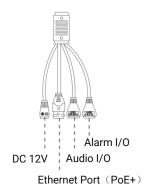


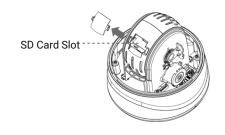
Network	Network Storage	NAS(Support NFS, SMB/CIFS), ANR	
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP,	
		UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL,TLS 1.2	
Audio	Audio Compression	G.711/AAC/G.722/G.726	
	Audio Sampling Rate	8/16/32/44.1/48KHz	
	Audio Bit Rate	16~256kbps	
	Two-way Audio	Support	
	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection,	
		Line Crossing, Loitering, Object Left, Object Removed	
Intelligent	Face Detection&Face Attribute Recognition	Detect and capture faces, get real-time snapshots;	
Analytics		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	
	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB	
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB,	
		IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark	
System	SIP/VoIP Support	Yes, Voice & Video-over-IP	
	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.	
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, PTZ Motion, HTTP Notification, etc.	
	System Compatibility	ONVIF Profile G & M & S & T, API	
General	Working Condition	Temperature: -40°C ~60°C / Humidity: 0~95%(Non-condensing)	
	Power Supply	PoE (802.3at) / DC 12V/3A \pm 10%	
	Power Consumption	12W MAX	
		20W MAX (With IR on)	
	Weather Proof/Housing	Up to IP66-rated for Weather-resistant Performance / Vandal-proof IK10-rated Metal Housing	
	Surge Protection	4KV	
	Dimensions/Weight	Ф183mmX174.8mm/2Kg	
	Warranty	2 Years / 3 Years (Optional)	

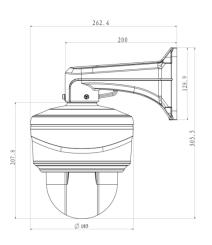


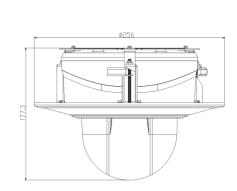
Structure Diagrams

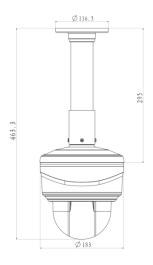












Accessories Support

A01 Pole Mount

Weight: 720g

Dimensions: 170*51.5*152.6mm



A03 External Corner Bracket

Weight: 900g

Dimensions: 170*152.5*76.3mm



A42-L Extension Lever

Weight: 325g

Dimensions: 57*255mm



A78 Recessed Mount

Weight: 715g

Dimensions: Φ256*94mm



A43 Junction Box

Weight: 1000g

Dimensions: 195*164*80mm



A77 Wall Mount

Weight: 650g

Dimensions: 262*185*138mm



A79 Pendant Mount

Weight: 850g

Dimensions: Φ185*295mm



AC-71 Smoked Dome Cover

For concealing where a camera

is pointed















