

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 AI engine, which can intelligently filter objects to focus on human and vehicle detection.
- People Counting/Vehicle Counting 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.



High Speed & Precise Movement

With a sophisticated pan/tilt mechanism, the 12X/20X/23X AI PTZ Dome Network Camera provides fast, precise movement with 360° endless pan and -5~90° (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.



AI 12X/20X/23X PTZ Dome Network Camera



Camera	Model	MS-C2971-X12R(T)PE (2MP)	MS-C2971-X23R(T)PE (2MP)	MS-C4471-X20RPE (4MP)
	Image Sensor	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
		Color: 0.005Lux@F1.6	Color: 0.005Lux@F1.5	Color: 0.002Lux@F1.6
	Min. Illumination	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		
	DORI Distance	D: 82.5~996m O: 32.5~392m R: 16~196m I: 8~99m	D: 85.5~1710m O: 33.5~673m R: 17~337m I: 8.5~168m	D: 120~2110m
	Digital Zoom		16X	
	Day/Night Mode	Day/Night/Auto/Customize/Schedule		
	S/N	>55dB		
	Focal Length	5.3~64mm, 12X Optical Zoom	5~117mm, 23X Optical Zoom	6.4~128mm, 20X Optical Zoom
	Zoom Speed	Approx 4s (Wide-Tele)	Approx 6s (Wide-Tele)	Approx 5s (Wide-Tele)
	Field of View	H61°~H5°/D69°~D5°/V36°~V2°	H60°~H3°/D69°~D4°/V35°~V2°	H60°~H3°/D67°~D4°/V37°~V1°
Lens	Focus Control	Auto/Semi-Auto/Manual		
	Minimum Working Distance	1000/1500mm(Wide/Tele)	100/1500mm (Wide/Tele)	100/2000mm(Wide/Tele)
	Aperture	F1.6~F2.8	F1.5~F3.5	F1.6~F4.0
	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		
ID	IR Distance	Up to 160m		
IR	IR Angle	Auto/Manual		
	Max. Image Resolution	1920x1080	1920x1080	2688x1520
Video	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: 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)
	Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240)		

Al 12X/20X/23X PTZ Dome Network Camera



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Video	Tertiary Stream Video Compression		60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240) 265+/H.265(HEVC)/H.264+/H.264/MJPE	60Hz: 30fps@(1280x720, 704x576, 640x480, 640x360, 320x240), 60Hz: 15fps@(1920x1080) 50Hz: 25fps@(1280x720, 704x576, 640x480, 640x360, 320x240), 50Hz: 15fps@(1920x1080)	
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)			
	Privacy Masking	Up to 8 A	Up to 8 Areas (Mask Area and Mosaic Area are optional)		
	ROI	Up to 8 areas			
Image	Image Setting	Brightness/Contrast/Saturation/Sharpness			
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defo Mode		BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, Corridor Mode	
	Ethernet	1*RJ45 10M/100M Ethernet Port			
Interface	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			
Audio	Audio Sampling Rate	8/16/32/44.1/48KHz			
	Audio Bit Rate	16~256kbps			
	Video Analysis	VCA 2.0: Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection,		vanced Motion Detection,	
	VIUEU Allalysis	Line Crossing, Loitering, Object Left, Object Removed			
	Attribute Extraction	Simultaneously detect up to 50 targets and capture humans and vehicles in real time.			
Intelligent		Recognize attributes including Upper and Lower Clothing Color, Hat, and Vehicle Types (Bicycle, Car, Motorcycle, Bus, Truck, E-scooter).			
Analytics		Detect and capture faces, get real-time snapshots;		hots;	
,	Face Detection&Face	The attributes include Age, Gender, Glasses, Mask and Cap;			
	Attribute Recognition	Support Faces Privacy Mode, the detected faces in the face detection area will be mosaic automatically.			
	Object Counting &	Count the number of objects crossing the line, optionally human and vehicle,			
	Report	Support regional people counting for up to 4 detection areas			
	Basic Event	Motion Detection, Tamper Detection, Network Disconnection, External Input, Audio Alarm, etc.			
Event	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, SMTP Upload, SD Card Record, External Output, SIP Phone, 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			

Al 12X/20X/23X PTZ Dome Network Camera



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	Min.: 7.1W (DC 12V), 8.6W(PoE)	Min.: 7.2W (DC 12V), 8.5W(PoE)	Min.: 7.7W (DC 12V), 9.6W(PoE)
		Max.: 15W (DC 12V), 17W(PoE)	Max.: 16W (DC 12V), 19W(PoE)	Max.: 16.4W (DC 12V), 20.3W(PoE)
	Surge Protection	4KV		
	Dimensions/Weight	Ф183mmX174.8mm/Approx. 2.6Kg		
	Warranty	2 Years / 3 Years (Optional)		
Certifications	EMC	CE-EMC (EN 55032, EN 55035), FCC (PART 15B)		
	Safety	CE-LVD (EN IEC 62368-1)		
	Environment	CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU)		
	Protection	IP66, IK10		

Al 12X/20X/23X PTZ Dome Network Camera



	Model	MS-C5371-X12PE	
	IVIOUEI	(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	
Camera	Shutter Time	1/100000s~1s	
	DORI Distance	D: 110~1330m	
	Digital Zoom	16X	
	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	IR Distance	Up to 160m	
IN	IR Angle	Auto/Manual	
	Max. Image Resolution	2592x1944	
Video	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 8 Areas (Mask Area and Mosaic Area are optional)	
	ROI	Up to 8 areas	

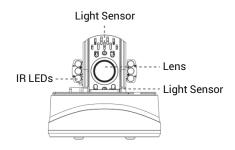
AI 12X/20X/23X PTZ Dome Network Camera

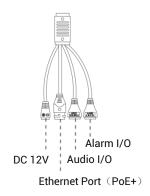


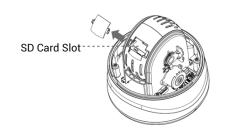
Image	Image Setting	Brightness/Contrast/Saturation/Sharpness	
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, Corridor Mode, LDC	
Interface	Ethernet	1*RJ45 10M/100M Ethernet Port	
	Audio I/O	1/1	
	Alarm I/O	1/1	
	Network Storage	NAS(Support NFS, SMB/CIFS), ANR	
Network	Dustanal	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP,	
	Protocol	UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL,TLS 1.2	
	Audio Compression	G.711/AAC/G.722/G.726	
Audio	Audio Sampling Rate	8/16/32/44.1/48KHz	
	Audio Bit Rate	16~256kbps	
	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.	
Intelligent	Attribute Extraction	Recognize attributes including Upper and Lower Clothing Color, Hat, and Vehicle Types (Bicycle, Car, Motorcycle, Bus, Truck, E-scooter).	
Analytics		Detect and capture faces, get real-time snapshots;	
,	Face Detection&Face Attribute Recognition	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,	
	o special control of the special control of t	Support regional people counting for up to 4 detection areas	
	Basic Event	Motion Detection, Tamper Detection, Network Disconnection, External Input, Audio Alarm, etc.	
Event	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, SMTP Upload, SD Card Record, External Output, SIP Phone, PTZ Motion, HTTP Notification, etc.	
	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB	
System	SIP/VoIP Support	Yes, Voice & Video-over-IP	
	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	Min.: 7.6W (DC 12V), 9.3W(PoE)	
General	·	Max.: 15.5W (DC 12V), 17.3W(PoE)	
	Surge Protection	4KV	
	Dimensions/Weight	Ф183mmX174.8mm/Approx. 2.6Kg	
	Warranty	2 Years / 3 Years (Optional)	
Certifications	EMC	CE-EMC (EN 55032, EN 55035), FCC (PART 15B)	
	Safety	CE-LVD (EN IEC 62368-1)	
	Environment	CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU)	
	Protection	IP66, IK10	

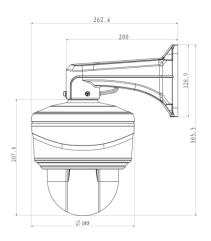


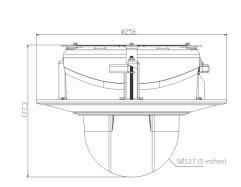
Structure Diagrams

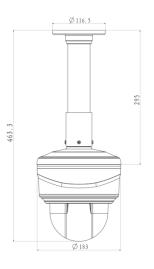












Accessories Support

A02 V2 Pole Mount

Weight: 1kg

Weight: 1000g

Dimensions: 180*136*46mm

Dimensions: 195*164*80mm



A03 External Corner Bracket

Weight: 900g

Dimensions: 170*152.5*76.3mm



A42-L Extension Lever

Weight: 330g

Dimensions: Φ55*255mm



A43 Junction Box A77 Wall Mount

Weight: 715g

Dimensions: Φ256*94mm



A79 Pendant Mount

Weight: 850g

Dimensions: Φ185*295mm



Weight: 650g

Dimensions: 262*185*138mm



AC-71 Smoked Dome Cover

Weight: 120g

Dimension: Φ136.8*92.5mm











