InVid Tech
Innovative Video Technology

Powered by Milesight

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

NDAA

IP66

Ik10

AI | H.265+ HEVC | Starlight | Super WDR | IR | Privacy Masking | SD XC | GMST ONVIF | PoE | Weather-proof | Vandal-proof

DATASHEET

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.)

AI Video Analytics

- 9 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.

Smart IR II Technology

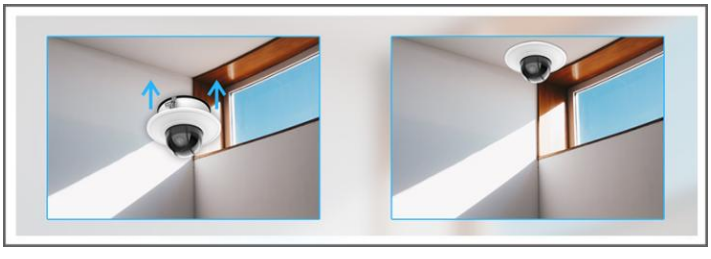
It allows the camera to catch better images regardless of object distance with High Beams and Low Beams whose brightness could be adjusted manually or automatically. Also, the innovative IR Anti-reflection Panel protects the lens from IR interference.

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.

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

	Model	INVID-MS-C2971-X12R(T)PE (2MP)	INVID-MS-C4471-X20RPE (4MP)	INVID-MS-C2971-X23R(T)PE (2MP)
Camera	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 B/W: 0Lux with IR on	Color: 0.002Lux@F1.6 B/W: 0Lux with IR on	Color: 0.005Lux@F1.5 B/W: 0Lux 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		
Lens	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°
	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		
PTZ	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		
	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		
	IR Angle	Auto/Manual		
Video	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	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)	60Hz: 30fps@(1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(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)		

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

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	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
Intelligent Analytics	Video Analysis	Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed
	Face Detection&Face Attribute Recognition	Detect and capture faces, get real-time snapshots; 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
System	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
	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℃~60℃ / Humidity: 0~95%(Non-condensing)
	Power Supply	PoE (802.3at) / DC 12V/3A±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	Φ183mmX174.8mm/Approx. 2.6Kg
	Warranty	2 Years / 3 Years (Optional)

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

	Model	INVID-MS-C5371-X12PE (5MP)
Camera	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
	Digital Zoom	16X
	Day/Night Mode	Day/Night/Auto/Customize/Schedule
	S/N	>55dB
Lens	Focal Length	5.3~64mm, **12X** Optical Zoom
	Zoom Speed	Approx 4s (Wide-Tele)
	Field of View	H57°~H4°/D69°~D5°/V44°~V1°
	Focus Control	Auto/Semi-Auto/Manual
	Minimum Working Distance	1000/1500mm(Wide/Tele)
	Aperture	F1.6~F2.8
	Iris Control	Auto
PTZ	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
	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
	IR Angle	Auto/Manual
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)
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	Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG
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Audio	Audio Compression	G.711/AAC/G.722/G.726
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	SIP/VoIP Support	Yes, Voice & Video-over-IP
	Event Trigger	Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.
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	Power Consumption	12W MAX 20W MAX (With IR on)
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	Dimensions/Weight	Φ183mmX174.8mm/Approx. 2.6Kg
	Warranty	2 Years / 3 Years (Optional)

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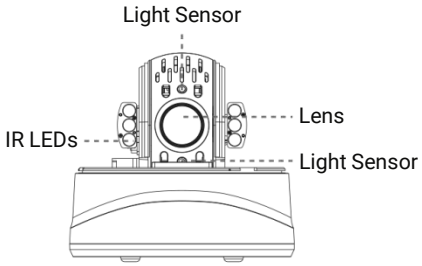
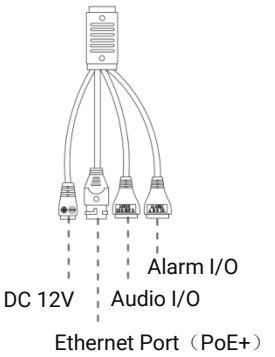
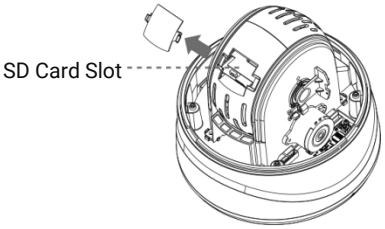
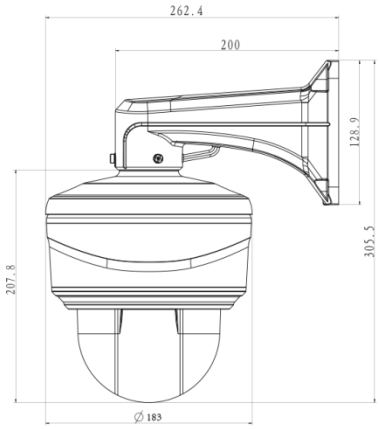
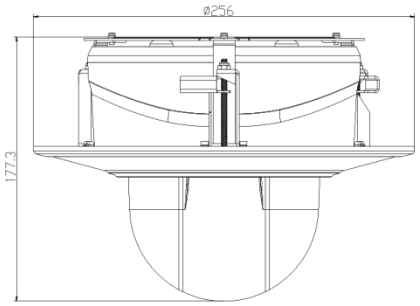
Structure Diagrams

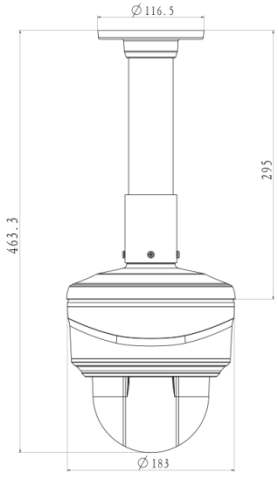












Accessories Support

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

A43 Junction Box

Weight: 1000g

Dimensions: 195*164*80mm

A77 Wall Mount

Weight: 650g

Dimensions: 262*185*138mm

A78 Recessed Mount

Weight: 715g

Dimensions: Φ256*94mm

A79 Pendant Mount

Weight: 850g

Dimensions: Φ185*295mm

AC-71 Smoked Dome Cover

For concealing where a camera is pointed

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