Milesight

AI 12X PTZ Bullet Network Camera

NDAA ✓

IP66

AF Lens

DATASHEET

Feature icons: AI | H.265+ HEVC | Starlight | Super WDR | IR | Weather-proof | Privacy Masking | SDXC | PoE | GMST Onvif

Key Features

► NDAA Compliance (The fully NDAA-compliant products are well suited for government, defense and a range of projects subject to the NDAA.)

► Smart IR II (Combining the High Beam and Low Beam to adjust IR intensity to fit different lighting conditions.)

► 60fps High Frame Rate (Camera can easily catch images with no latency despite of the high-speed movement.)

► IR LEDs & White LED (Enable distinct at night with IR LEDs as well as express alarm and deliver colorful surveillance with the White LED.)

► Smart PTZ Motion Detection (Pan and tilt to the position of motion detected area automatically and zoom in synchronously.)

► 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 save with Smart Stream ON, e.g. H.265+ save 70%~80% bandwidth of H.264.)

AI Video Analytics

● 8 intelligent VCA modes powered by AI engine, which can intelligently filter objects to focus on human and vehicle detection.

● Object Counting technology provides high accuracy and real-time data based on AI algorithm with statistic reports, optionally human and vehicles.

● Face Detection function detects human faces in the monitoring scene and captures the snapshots, which greatly enhances the monitoring efficiency.

140dB Super WDR

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.
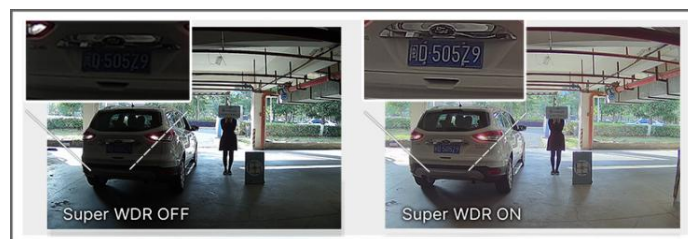
12X Optical Zoom

The 12X optical zoom can zoom up to distant subjects while still maintaining the clarity, delivering high quality video over the entire zoom range.

Flexible Installation Modes

With two installation modes of Wall Mount and Pedestal Mount, the PTZ camera, to a greater extent, meets different installation needs for different application scenarios.

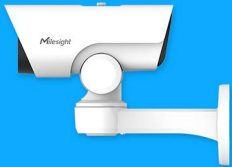# AI 12X PTZ Bullet Network Camera

Model	MS-C2961-X12R(T)PE (2MP)	MS-C5361-X12PE (5MP)
Camera		
Image Sensor	1/2.8" Progressive Scan CMOS	
Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on	Color: 0.008Lux@F1.6 B/W: 0Lux with IR on
WDR	140dB Super WDR	120dB Super WDR
Shutter Time	1/100000s~1s	
DORI Distance	D: 82.5~996m O: 32.5~392m R: 16~196m I: 8~98m	D: 110~1330m O: 43~522m R: 21.5~261m I: 11~131m
IR Distance	Up to 140m	
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	H61°~H5°/D69°~D5°/V36°~V2°	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°~50°/s, Pan Preset Speed: 50°/s	
Tilt Range/Tilt Speed	-45°~30° / Tilt Manual Speed: 0.1°~25°/s, Tilt Preset Speed: 25°/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	
Video		
Max. Image Resolution	1920x1080	2592x1944
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: 30fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 60fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 50fps@(1920x1080, 1280x960, 1280x720, 704x576)
Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240)	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 25fps@(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@(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)	

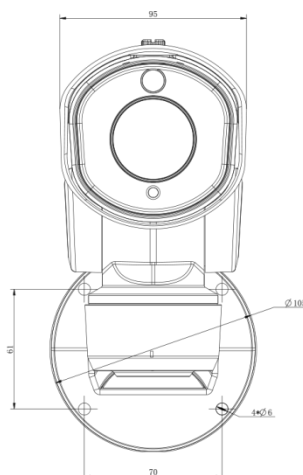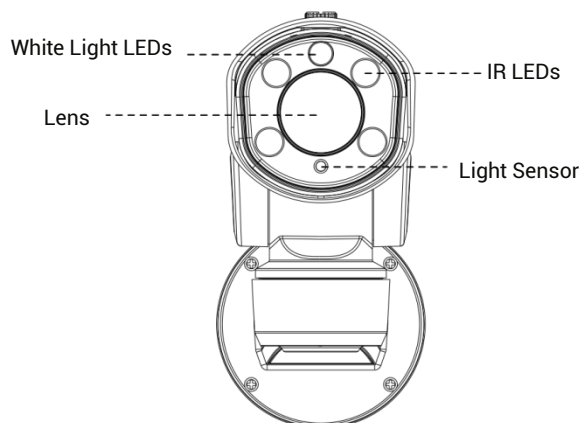|		
Image	Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)
	ROI	Up to 8 areas
	Image Setting	Brightness/Contrast/Saturation/Sharpness
	Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, Corridor Mode, LDC
Interface	Ethernet	1*RJ45 10M/100M Ethernet Port
	Audio I/O	1/1 (Optional)
	Alarm I/O	1/1 (Optional)
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
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; 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
Event	Basic Event	Motion Detection, Tamper Detection, Network Disconnection, External Input (Optional), Audio Alarm (Optional), etc.
	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 (Optional), SIP Phone, White LED, 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
General	Working Temperature	-40℃~60℃
	Working Humidity	0~95%(Non-condensing)
	Power Supply	PoE (802.3at) / DC 12V/2A±10%
	Power Consumption	Min.: 10.5W (DC 12V), 12.2W(PoE) Max.: 18.3W (DC 12V), 20.2W(PoE) Min.: 12W (DC 12V), 13.4W(PoE) Max.: 17.2W (DC 12V), 19.3W(PoE)
	Weight	2Kg (Wall Mount) / 1.8Kg (Pedestal Mount)
	Dimensions	105mmX292mmX207mm (Wall Mount) / 218mmX120mmX172mm (Pedestal Mount)
	Warranty	2 Years / 3 Years (Optional)

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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

Structure Diagrams

Wall Mount：

White Light LEDs
IR LEDs
Lens
Light Sensor

MicroSD/SDHC/SDXC Card Slot
Reset
Alarm In/Out
（Audio In/Out）
DC 12V
Ethernet Port（poE+）

MicroSD/SDHC/SDXC Card Slot
Reset
Alarm In/Out
（Audio In/Out）
DC 12V
Ethernet Port（poE+）
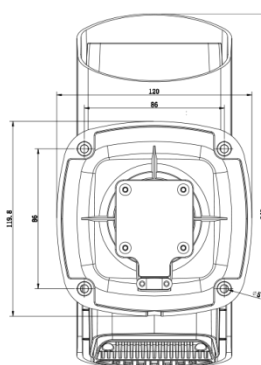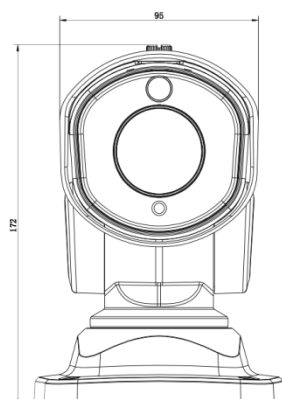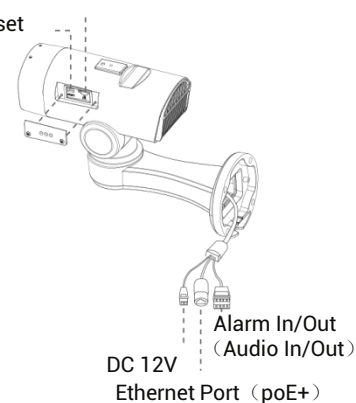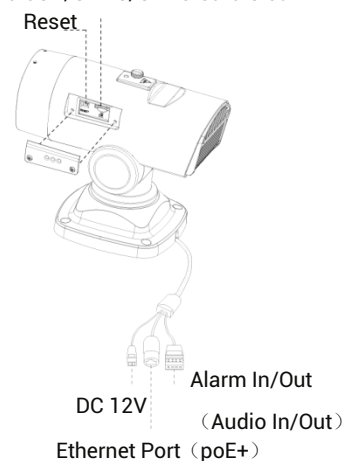
Accessories Support

A02 V2 Pole Mount

Weight: 1kg

Dimensions: 180*136*46mm

A03 External Corner Bracket

Weight: 900g

Dimensions: 170*152.5*76.3mm

A62 Junction Box

Weight: 510g

Dimensions: 134*126*40mm