



PRO 

PTZ Enhance Bullet

AI 5X/12X/20X/23X PTZ Network Camera

AI Video Analytics

- 8 intelligent VCA modes powered by AI 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 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.

3 in 1 Super WDR Pro & 0.001 Lux Ultra Low-light

140dB Super WDR Pro combines 3 frames with multiple exposures to get the optimal images especially moving subjects in high contrast lighting situations. Meanwhile, the cameras can capture full-color images in extremely low-light conditions reaching 0.001 Lux without extra light supplement.

23X Optical Zoom

The 23X optical zoom can zoom up to distant subjects while still maintaining the clarity, 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.

FEATURES

- Smart IR II Combining the High Beam and Low Beam to adjust IR intensity.
- Smart Stream saves on H.265+ 70%~80% bandwidth that of H.264.
- Smart PTZ Motion Detection.
- Keyboard Control.
- New-generation PTZ Motor.



PRO SERIES


TECHNICAL SPECIFICATION

CAMERA

	MV-P220-X20-PTZ-EB (2MP)	MV-P228-X23-PTZ-EB (2MP)	MV-P528-X23-PTZ-EB (5MP)
Image Sensor	1/2" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	
Min. Illumination	Color: 0.001Lux@F1.2 Color: 0.002Lux@F1.6 B/W: 0Lux with IR on	Color: 0.002Lux@F1.2 Color: 0.005Lux@F1.5 B/W: 0Lux with IR on	Color: 0.005Lux@F1.2 Color: 0.008Lux@F1.5 B/W: 0Lux with IR on
WDR	140dB Super WDR Pro	140dB Super WDR (Super WDR Pro is optional for T Series)	120dB Super WDR
Shutter Time	1/100000s~1s		
IR Distance	Up to 180m		
Digital Zoom	16X		
Day/Night Mode	Day/Night/Auto/Customize/Schedule		
S/N	>55dB		

LENS

	6.4~128mm, 20X Optical Zoom	5~117mm, 23X Optical Zoom	5~117mm, 23X Optical Zoom
Focal Length	6.4~128mm, 20X Optical Zoom	5~117mm, 23X Optical Zoom	5~117mm, 23X Optical Zoom
Zoom Speed	Approx 5s (Wide-Tele)	Approx 6s (Wide-Tele)	Approx 7s (Wide-Tele)
Field of View	H60°~H3°/D67°~D4°/V37°~V1°	H60°~H3°/D69°~D4°/V35°~V2°	H55°~H3°/D68°~D4°/V42°~V2°
Focus Control	Auto/Manual		
Minimum Working Distance	1000/2000mm (Wide/Tele)	1000/2000mm (Wide/Tele)	1000/1500mm (Wide/Tele)
Aperture	F1.5~F3.5	F1.5~F3.5	F1.5~F3.5
Iris Control	Auto		

PTZ

Pan Range/Pan Speed	360°endless / Pan Manual Speed: 0.1°~60°/s, Pan Preset Speed: 60°/s
Tilt Range/Tilt Speed	-45°~30° / Tilt Manual Speed: 0.1°~30°/s, Tilt Preset Speed: 30°/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

	1920x1080	2592x1944
Max. Image Resolution	1920x1080	2592x1944
Primary Stream	60Hz: 100fps@(1920x1080)(Optional for T Series), 60fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 100fps@(1920x1080)(Optional for T Series), 50fps@(1920x1080, 1280x960, 1280x720, 704x576)	60Hz: 30fps@(2592x1944), 45fps@(2048x1536), 60fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(2592x1944), 45fps@(2048x1536), 50fps@(1920x1080, 1280x960, 1280x720, 704x576)
Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180) 50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)
Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180)	
Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG	
Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)	

TECHNICAL SPECIFICATION

VIDEO

	MV-P220-X20-PTZ-EB (2MP)	MV-P228-X23-PTZ-EB (2MP)	MV-P528-X23-PTZ-EB (5MP)
Privacy Masking	Up to 28 areas (24 mask areas and 4 mosaic areas)		
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(Automatic Network Replenishment)
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

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	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed
Face Detection	Detect and capture faces, get real-time snapshots
People Counting& Report	Count the number of people entering or exiting, up to 4 detection areas for regional people counting

SYSTEM

Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 256Gb
Advanced Function	BLC, HLC, 2D DNR, 3D DNR,Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark
SIP/VoIP Support	Yes, Voice & Video-over-IP
Event Trigger	Motion Detection, Network Disconnection, Audio Alarm, External Input, etc.
Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, White LED, PTZ Motion, HTTP Notification, etc.
System Compatibility	ONVIF Profile G & Q & S & T, API

GENERAL

Working Temperature	-40°C~60°C
Working Humidity	0~90%(Non-condensing)
Power Supply	PoE (802.3at) / DC 12V/3A±10%
Power Consumption	12W MAX / 23W MAX (With IR on)
Weather Proof	Up to IP66-rated for Weather-resistant Performance
Weight	2.9Kg
Dimensions	110mmX337mmX220mm
Warranty	2 Years / 3 Years (Optional)

PRO SERIES


TECHNICAL SPECIFICATION

CAMERA

	MV-P818-PTZ-EB (4K)	MV-P818-X20-PTZ-EB (4K)
Image Sensor	1/1.8" Progressive Scan CMOS	
Min. Illumination	Color: 0.006Lux@F1.2 Color: 0.009Lux@F1.7 B/W: 0Lux with IR on	Color: 0.006Lux@F1.2 Color: 0.009Lux@F1.6 B/W: 0Lux with IR on
WDR	120dB Super WDR	
Shutter Time	1/100000s~1s	
IR Distance	Up to 180m	
Digital Zoom	16X	
Day/Night Mode	Day/Night/Auto/Customize/Schedule	
S/N	>55dB	

LENS

	11~55mm, 5X Optical Zoom	6.4~128mm, 20X Optical Zoom
Focal Length	11~55mm, 5X Optical Zoom	6.4~128mm, 20X Optical Zoom
Zoom Speed	Approx 3.5s (Wide-Tele)	Approx 5s (Wide-Tele)
Field of View	H36°~H8°/D41°~D9°/V21°~V5°	H60°~H3°/D67°~D4°/V37°~V1°
Focus Control	Auto/Semi-Auto/Manual	
Minimum Working Distance	1000/1500mm (Wide/Tele)	1000/2000mm (Wide/Tele)
Aperture	F1.7~F2.1	F1.6~F4.0
Iris Control	Auto	

PTZ

Pan Range/Pan Speed	360°endless / Pan Manual Speed: 0.1°~60°/s, Pan Preset Speed: 60°/s
Tilt Range/Tilt Speed	-45°~30° / Tilt Manual Speed: 0.1°~30°/s, Tilt Preset Speed: 30°/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	3840x2160
Primary Stream	60Hz: 30fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576)
Secondary Stream	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)
Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180)
Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG
Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)
Privacy Masking	Up to 28 areas (24 mask areas and 4 mosaic areas)
ROI	Up to 8 areas
Image Setting	Brightness/Contrast/Saturation/Sharpness