

**PRO** 

Optical Zoom Ultra Bullet Plus

2M/5M/8M AI 4X/12X
Ultra Bullet Plus

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 140dB

The upgraded 3 in 1 Super WDR Pro outputs three frames each line, which is able to bring more details especially moving subjects. What's more, it greatly improves image quality for reducing smear and noisy points. The ratio that the brightest light signal values divided by the darkest light signal values is up to 140dB.

0.001 Lux Ultra Low-light

The starlight camera is able to deliver high detailed color images even in low light environment reaching 0.001 Lux(Color) or 0lux(B/W), and near infrared light environments without any supplementary lighting.

100fps

With the industry leading frame rate reaching 100fps, the cameras can easily catch images with no latency despite of the high-speed movement, which is the best choice for the demanding requirements especially for intelligent cameras.

FEATURES

- Smart IR II Combining the High Beam and Low Beam to adjust IR intensity.
- HLC (Improving image visibility under strong light sources).
- Smart Stream saves on H.265+ 70%~80% bandwidth that of H.264.
- Defog (Restoring clear images in hazy and foggy weather.)
- microSD/SDHC/SDXC card storage up to 256GB.



PRO SERIES

TECHNICAL SPECIFICATION

CAMERA

	MV-P220-OZBP (2MP)	MV-P228-OZBP (2MP)
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@F1.6 B/W: 0Lux with IR on
WDR	140dB Super WDR Pro	140dB Super WDR (Super WDR Pro is optional for T Series)
Shutter Time	1/100000s~1s	
IR Distance	Up to 180m	
Day/Night Mode	Day/Night/Auto/Customize/Schedule	
S/N	>55dB	

LENS

Lens	8~32mm, 4X Optical Zoom	5.3~64mm, 12X Optical Zoom
Mount	Ø14	
Field of View	H44°~H13°/D51°~D15°/V25°~V7°	H61°~H5°/D69°~D5°/V36°~V2°
Aperture	F1.6-F1.7	F1.6~F2.8
Focus Control	Auto/Manual	
Iris Control	Auto	

VIDEO

Max. Image Resolution	1920x1080
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)
Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180) 50Hz: 50fps@(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

INTERFACE

Ethernet	1*RJ45 10M/100M Ethernet Port
Audio I/O	1/1
Alarm I/O	1/1

PRO SERIES

TECHNICAL SPECIFICATION

NETWORK

	MV-P220-OZBP (2MP)	MV-P228-OZBP (2MP)
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	Heat Map, 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, 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 (802.3af) / DC 12V±10%	
Power Consumption	8W MAX	
	14W MAX (With IR on)	
	10W Max (With Heater on)	
	Heater on: below 10°C, Heater off: above 25°C	
Surge Protection	4KV	
Weather Proof	Up to IP67-rated for Weather-resistant Performance	
Housing	Vandal-proof IK10-rated Metal Housing	
Weight	1445.8g	1447g
Dimensions	320mmX134mmX126mm	
Warranty	3/5 Years	

PRO SERIES

TECHNICAL SPECIFICATION

CAMERA

	MV-P528-OZBP (5MP)	MV-P818-OZBP (8MP)
Image Sensor	1/2.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.005Lux@F1.2 Color: 0.008Lux@F1.6 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	
Day/Night Mode	Day/Night/Auto/Customize/Schedule	
S/N	>55dB	

LENS

Lens	5.3~64mm, 12X Optical Zoom	8~32mm, 4X Optical Zoom
Mount	Ø14	
Field of View	H57°~H4°/D69°~D5°/V44°~V1°	H44°~H13°/D51°~D15°/V25°~V7°
Aperture	F1.6~F2.8	F1.6-F1.7
Focus Control	Auto/Manual	
Iris Control	Auto	

VIDEO

Max. Image Resolution	2592x1944	3840x2160
Primary Stream	60Hz: 30fps@(2592x1944), 45fps@(2048x1536), 60fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(2592x1944), 45fps@(2048x1536), 50fps@(1920x1080, 1280x960, 1280x720, 704x576)	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	

INTERFACE

Ethernet	1*RJ45 10M/100M Ethernet Port
Audio I/O	1/1
Alarm I/O	1/1