



PRO 

LPR PTZ Plus Bullet

LPR GCC Version

AI-powered LPR Algorithm

Based on AI algorithm, the LPR function provides value-added data via a pre-trained deep learning model, which can not only recognize vehicle plates in real time with high accuracy, but also identify more vehicle features, like vehicle type, color, etc., generating powerful security and traffic insights.

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.

3 in 1 Super WDR Pro & 0.002Lux Ultra Low-light

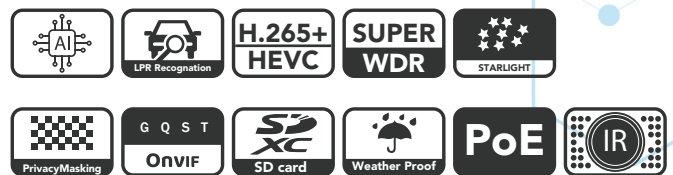
140dB Super WDR Pro combines 3 frames with multiple exposures to get the optimal images especially moving subjects in high contrast lighting situations. Meanwhile, the cameras can capture full-color images in extremely low-light conditions reaching 0.002Lux without extra light supplement.

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.
- Smart Stream saves on H.265+ 70%~80% bandwidth that of H.264.
- PTZ Auto Tracking(Track the moving objects in a proper size automatically.)
- Keyboard Control (Shortcut keys for PTZ control via Keyboard.)
- 300 Preset Positions.



TECHNICAL SPECIFICATION

CAMERA

	MV-P220-UPPB (2MP)	MV-P220-X20-UPPB (2MP)	MV-P520-UPPB (5MP)
Image Sensor	1/2" Progressive Scan CMOS		1/2.8" Progressive Scan CMOS
Min. Illumination	Color: 0.002Lux@F1.7 B/W: 0Lux with IR on	Color: 0.002Lux@F1.7 B/W: 0Lux with IR on	Color: 0.008Lux@F1.5 B/W: 0Lux with IR on
WDR	140dB Super WDR Pro		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	5~117mm, 23X Optical Zoom
Focal Length	11~55mm, 5X Optical Zoom	6.4~128mm, 20X Optical Zoom	5~117mm, 23X Optical Zoom
Zoom Speed	Approx 3.5s (Wide-Tele)	Approx 5s (Wide-Tele)	Approx 6s (Wide-Tele)
Field of View	H34°~H8°/D39°~D9°/V20°~V4°	H60°~H3°/D67°~D4°/V37°~V1°	H55°~H3°/D68°~D4°/V42°~V2°
Focus Control	Auto/Semi-Auto/Manual		
Minimum Working Distance	1000/1500mm (Wide/Tele)		
Aperture	F1.7~F2.1	F1.7~F2.1	F1.5~F3.5
Iris Control	Auto		

LPR

Max. Vehicle Speed	200km/h
Recognition Accuracy	>95%
Coverage	Support simultaneous detection of 4 regions
White/Black List	Up to 1000 records inside the camera
Smart Traffic Detection	License Plate Recognition, Plate Type Classification, Plate Color Recognition, Vehicle Type Classification, Vehicle Color Recognition

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

TECHNICAL SPECIFICATION

VIDEO

	MV-P220-UPPB (2MP)	MV-P220-X20-UPPB (2MP)	MV-P520-UPPB (5MP)
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)		
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

SYSTEM

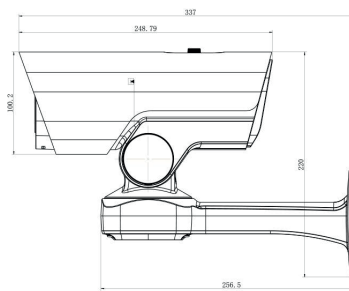
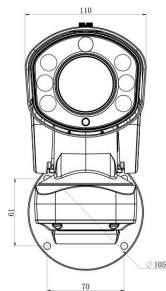
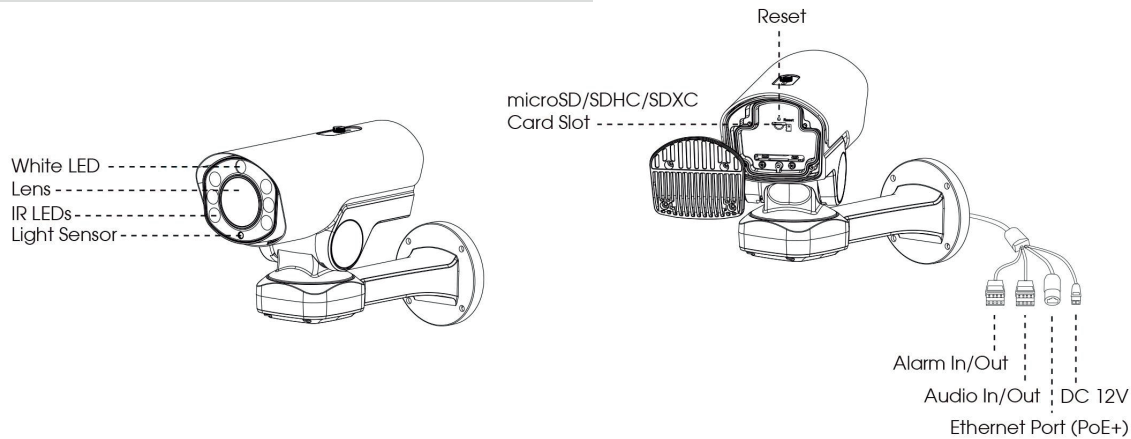
Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 256Gb
Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark
SIP/VoIP Support	Yes, Voice & Video-over-IP
Event Trigger	Black/White List, Motion Detection, Network Disconnection, External Input, Audio Alarm, 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

PRO SERIES

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 / 28W MAX (With IR on)	12W MAX / 23W MAX (With IR on)
Housing	Up to IP66-rated for Weather-resistant Performance	
Weight	Vandal-proof IK10-rated Metal Housing (Without Radar Module)	
Dimensions	4KV	
Warranty	2 Years / 3 Years (Optional)	

STRUCTURE DIAGRAMS



ACCESSORIES

Units: mm

A01 Pole Mount

Weight: 720g
Dimensions: 170*51.5*152.6mm



A03 External Corner Bracket

Weight: 900g
Dimensions: 170*152.5*76.3mm



A62 Junction Box

Weight: 510g
Dimensions: 134*126*40mm

