



PRO 

# LPR PTZ Dome

## 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.

### Intelligent PTZ Auto Tracking

With AI detection, the Network Camera could leverage motor mechanism to perform Pan/Tilt/Zoom to track the moving human or vehicle automatically and adjust zoom status flexibly according to the target distance with the powerful optical zoom capability.

### Up to 36X Optical Zoom

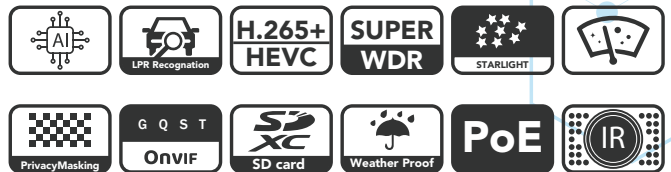
Embedded with optical zoom lens, the cameras' resolution is up to 36X optical zoom which allows the user to zoom up to distant objects while still maintaining the clarity and delivering high quality video over the entire zoom range.

### 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-LPD (2MP)	MV-P228-LPD (2MP)
Image Sensor	1/2" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
Min. Illumination	Color: 0.002Lux@F1.55 B/W: 0Lux with IR on	Color: 0.005Lux@F1.5 B/W: 0Lux with IR on
WDR	140dB Super WDR Pro	
Shutter Time	1/100000s~1s	
Digital Zoom	16X	
Day/Night Mode	Day/Night/Auto/Customize/Schedule	
Day/Night Mode	>55dB	

### LENS

	MV-P220-LPD (2MP)	MV-P228-LPD (2MP)
Focal Length	5.7~205.2mm, 36X Optical Zoom	5~117mm, 23X Optical Zoom
Zoom Speed	Approx 7s (Wide-Tele)	Approx 6s (Wide-Tele)
Field of View	H63°~H3°/D69°~D3°/ V38°~V1°	H60°~H3°/D69°~D4°/ V35°~V2°
Focus Control	Auto/Semi-Auto/Manual	
Minimum Working Distance	1500/1500mm (Wide/Tele)	1500/1500mm (Wide/Tele)
Aperture	F1.55~F4.8	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, Vehicle Direction Detection

### PTZ

Pan Range/Pan Speed	360°endless / Pan Manual Speed: 0.1°~250°/s, Pan Preset Speed: 250°/s
Tilt Range/Tilt Speed	-5°~90°(Auto Flip) / Tilt Manual Speed: 0.1°~160°/s, Tilt Preset Speed: 160°/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 300m	Up to 200m
IR Angle	Auto/Manual	

## TECHNICAL SPECIFICATION

### VIDEO

	MV-P220-LPD (2MP)	MV-P228-LPD (2MP)
Max. Image Resolution	1920x1080	
Primary Stream	60Hz/50Hz: 100fps@(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	4/2
RS485	Support

### 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 (Optional), Audio Alarm (Optional), etc.
Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output (Optional), SIP Phone, White LED, PTZ Motion, HTTP Notification, etc.
System Compatibility	ONVIF Profile G & Q & S & T, API

### GENERAL

Working Condition	Temperature: -40°~60° / Humidity: 0~90%(Non-condensing)	
Power Supply	PoE (802.3at) / AC 24V/3A±10%	
Power Consumption	15W MAX / 20W MAX (With IR on)	12W MAX / 24W MAX (With IR on)
Weather Proof/Housing	Up to IP66-rated for Weather-resistant Performance / Vandal-proof IK10-rated Metal Housing(Optional)	

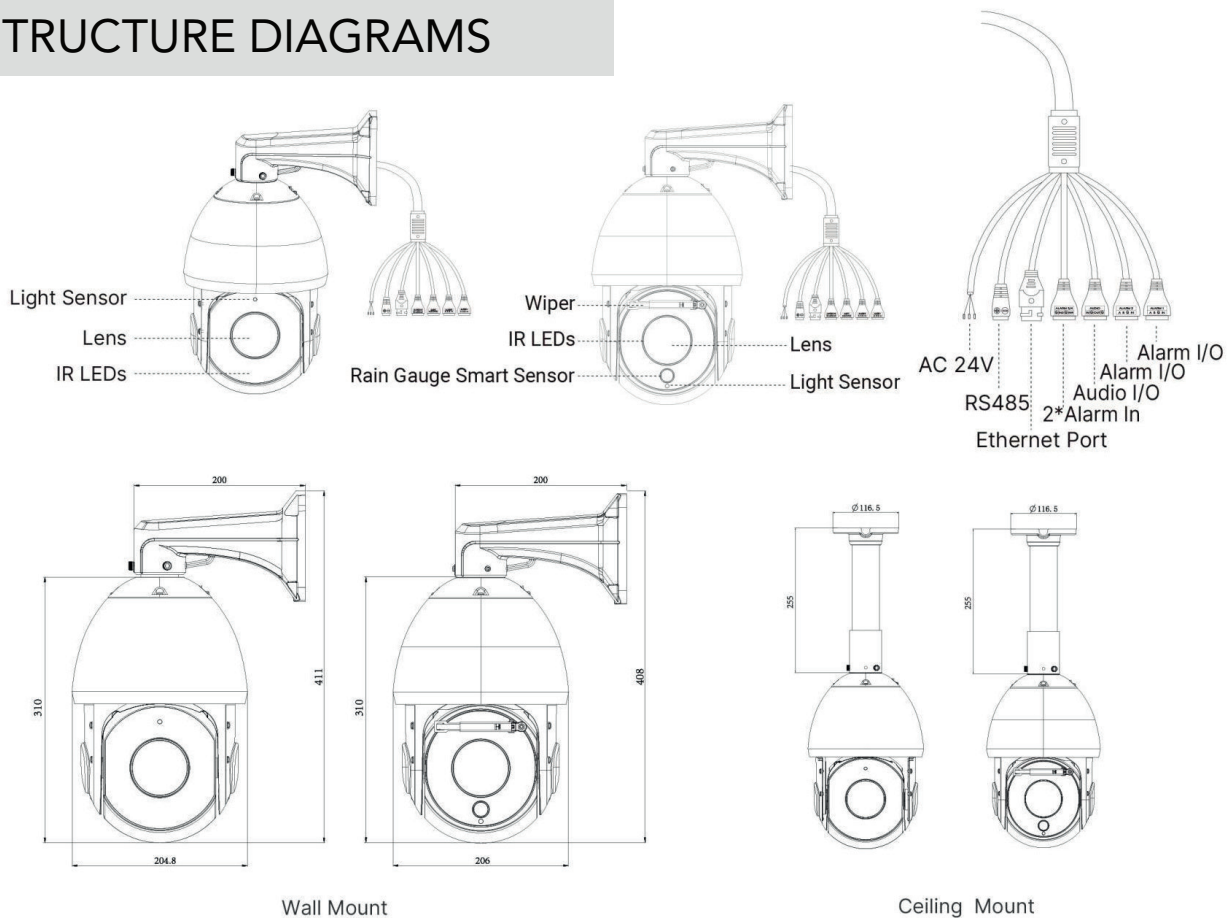


# PRO SERIES

## GENERAL

Heater	Support	
Wiper (Optional)	Support	N/A
Surge Protection	6KV	
Dimensions/Weight	Ø205mmX308mm/4Kg	
Warranty	2 Years / 3 Years (Optional)	

## STRUCTURE DIAGRAMS



## ACCESSORIES

Units: mm

A41 Wall Mount (Default)  
Weight: 400g  
Dimensions: 200\*129\*100mm



A01 Pole Mount  
Weight: 720g  
Dimensions: 170\*51.5\*152.6mm



A03 External Corner Bracket  
Weight: 900g  
Dimensions: 170\*152.5\*76.3mm



A42 Pendant Mount  
Weight: 650g  
Dimensions: 116.5\*255mm



A42-L Extension Lever  
Weight: 325g  
Dimension: 57\*255mm



A43 Junction Box  
Weight: 1000g  
Dimensions: 195\*164\*80mm

