



MPIX-40LPR

WatchNET LPR Camera



KEY FEATURES:

- High-performance CMOS image sensor and processor that supports continuously extracting metadata 24/7.
- Adopts intelligent deep learning algorithms and supports recognition of unlicensed vehicles and the type, brand and color of vehicles.
- Built-in signal port, data port, communication port and remote controllers assist in controlling external devices such as entry and exit barriers.
- Built-in LED for simplified installation and commissioning.
- All-in-one structure with junction box and bracket, and it is also low power consumption.
- IP67 and IK10 rated.
- Supports intrusion and loitering detection and triggers light and voice alarms when perimeter events occur to actively deter targets. Custom audios can also be imported and edited.
- Easily adapts to scenarios through its motorized vari-focal lens.

CAMERA	
Image Sensor	1/1.8" CMOS
Max. Resolution	2688 × 1520
ROM	1 GB
RAM	4 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/25s~1/10,000s
Min. illumination	0.001 Lux@F1.6 (Color, 30 IRE) 0.0002 Lux@F1.6 (B/W, 30 IRE) 0 Lux (Illuminator on)
S/N Ratio	>56 dB
Max. Detection Speed	120 km/h

LENS	
Lens Type	Motorized Vari-focal
Focal Length	8 mm–32 mm
Max. Aperture	1.6
Field of View	H: 39.9° (W)—15.1° (T) V: 21.8° (W)—8.5° (T) D: 46.6° (W)—17.4° (T)
Iris type	Fixed
Iris Control	P-Iris
Number of Lens	1

DORI DISTANCE				
	Detect	Observe	Recognize	Identify
W	160.0 m (524.93 ft)	64.0 m (209.97 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)
T	406.9 m (1334.97 ft)	162.8 m (534.12 ft)	81.4 m (267.06 ft)	40.7 m (133.53 ft)

FUNCTION	
Storage	Built-in TF card port. Supports Kingston 16 G, 32 G, 128 G, 256 G; Dahua card 16 G, 32 G, 128 G, 256 G; SanDisk 16 G, 32 G, 128 G, 256 G
Restricted List/Trusted List	Allowlist: 110,000 Blocklist: 110,000
IVS	Intrusion detection, loitering detection, up to 4 areas can be set.
Basic Event	Alarms for events of defocus, no storage card, storage card no space, storage card error, network disconnection, IP conflict, and illegal access.
Sound and Light Alarm	Yes, blue & red indicator, and supports broadcasting custom audio.
Alarm Linkage	Upload to FTP/Memory card, notify monitoring center, send e-mail, trigger alert output, snapshot and active deterrence
Capture Distance	8 m–20 m (26.25 ft–65.62 ft)
Detected Width	6 m–8 m (19.69 ft–26.25 ft)

AUDIO	
Audio Port	Yes
Built-in MIC	Yes; Pick-up distance: 3 m (9.84 ft), Sampling Rate: 48 k.
Built-in Speaker	Yes; Power: 2 W

PERFORMANCE	
Maximum Number of Passed Vehicles	10,000
Max. Number of Connections	10

VIDEO	
Video Compression	H.264H; H.264B; H.264M by default; H.265; MJPEG; H.264M
Video Resolution	Main stream: 4M (2688 × 1520)/1080p (1920 × 1080)/720p (1280 × 720) Sub stream: 720p (1280 × 720)/960H (960 × 576, 960 × 480)/D1 (704 × 576, 704 × 480)/CIF (352 × 288, 352 × 240)
Stream	PAL: Main stream (2688 × 1520@25 fps, 1920 × 1080@25 fps, 1280 × 720@25 fps), sub stream (1280 × 720@25 fps, 960 × 576@25 fps, 704 × 576@25 fps, 352 × 288@25 fps); NTSC: Main stream (2688 × 1520@30 fps, 1920 × 1080@30 fps, 1280 × 720@30 fps), sub stream (1280 × 720@30 fps, 960 × 480@30 fps, 704 × 408@30 fps, 352 × 240@30 fps)
Video Bit Rate	H.264B: 2,179 kbps–13,074 kbps H.264M: 2,179 kbps–13,074 kbps H.264H: 2,179 kbps–13,074 kbps H.265: 2,179 kbps–13,074 kbps MJPEG: 6,537 kbps–39,223 kbps
Scene Self-adaptation (SSA)	Yes
Gain Control	Manual; Auto
Noise Reduction	3D NR
Region of Interest (RoI)	Yes, 3
Image Tampering Prevention	Yes. Watermarks can be added to videos and images. The watermark can also be verified.
Bit Rate Control	CBR; VBR

ILLUMINATOR	
Illuminator Number	4
Illuminator On/Off Control	Auto, manual
Illuminator Type	IR (850 nm)
Illumination Distance	ANPR: 20 m (65.62 ft) Video monitoring: 60 m (196.85 ft)
Smart Illumination	According to the brightness of the environment, the camera automatically adjusts the intensity of its light to reveal the details of moving targets. Devices with warm light can automatically adjust the light intensity according to the time.
Infrared Wavelength	850 nm

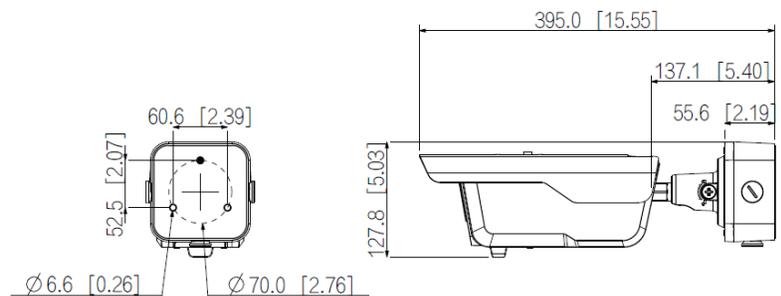
NETWORK	
SDK and API	Yes
Network Protocol	HTTP; Https; 802.1x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; IPv4/v6; NTP; SFTP; DDNS; SNMP; PPPoE
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; ITSAPI; P2P
Browser	Plug in: IE 9, 10, 11. Chrome 52 and earlier versions Firefox 42 and earlier versions No plug in: Chrome 92 and later versions
Security	Username and password; MAC address; HTTPS; IEEE 802.1x; network access control

IMAGE	
Image Encoding Format	JPEG
Image Setting	Brightness; contrast; saturation; gamma; sharpness; gain; white balance
Day/Night	IR filter, support three modes: color/B/W/auto
WDR	140 dB
HLC	Yes
BLC	Yes
White Balance	Auto; Regional Custom; Manual; Outdoor; Natural; Street Lamp
Digital Detail Enhancement (DDE)	Yes
OSD Overlay	Supports overlay of time; address (position of channel), lane (number/direction), plate (number and color), vehicle (speed, color, type)

PORT	
Audio Output	1 channel (RCA port)
Network Port	RJ-45 (10/100/1000 self-adaptive Ethernet Port)
Alarm Input	2, optocoupler input (wet node on-off value: 5 V)
Alarm Output	2, relay output (2A 30 VDC/0.5A 125 VAC), which can connect to devices such as barriers
RS-485	2 (half duplex, Transparent, DHRS, Push Data through Serial Port)
Reset Button	Yes
Wiegand	1 channel, SHA-1 26 bit

GENERAL	
Remote control	Yes
Communication Band	433 MHz; 868 MHz
Remote Control Distance	15 m (49.21 ft) (In an open, undisturbed environment)
Power Supply	12 VDC, 2 A and POE:802.3at, Type 2, Class 4, (44V to 57V), 0.455A to 0.351A, max.20W
Power Consumption	Power consumption in different conditions: No lighting < 6 W Lighting < 12 W Speaker and Red/Blue Light Warning on < 17 W
Protection	IK10; IP67
Material	Aluminum alloy body+Plastic
Product Dimensions	396.0 mm × 120.8 mm × 127.8 mm (15.59" × 4.76" × 5.03") (L × W × H)
Packaging Dimensions	445.0 mm × 238.0 mm × 229.0 mm (17.52" × 9.37" × 9.02")
Net Weight	2.3 kg (5.07 lb)
Gross Weight	3.2 kg (7.05 lb)
Storage Humidity	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	≤ 95% (non-condensing)
Operating Temperature	-30 °C to +65 °C (-22 °F to +149 °F)
Operating Humidity	10%–90% (non-condensing)

ADVANCED INTELLIGENCE	
AI Recognition	Recognizes vehicle types, vehicle signs, vehicle color, vehicle plate, plate, vehicle without plate.
Video Metadata	Displays the intelligent frame, plate and vehicle paths.
Vehicle Brand	Recognizes 147 vehicle logos.
Vehicle Color	Recognizes 12 colors: Grey, black, white, silver, blue, green, purple, red, orange, pink, brown, and yellow.
Vehicle Type Recognition	Recognizes 9 vehicle types: Large Bus, Heavy Truck, Medium Truck, Sedan, Van, Light Truck, Medium Bus, SUV, MPV, Pickup
Country and Region Supported by ANPR	Baseline support: GCC (U.A.E., Saudi Arabia, Morocco, Oman, Iraq, Egypt, Jordan, Qatar, Kuwait, Bahrain, Lebanon) Europe (Netherlands, France, Germany, Britain, Italy, Poland, Belgium, Bulgaria, Serbia, Slovakia, Spain, Denmark, Turkey, Israel, Czech Republic, Bosnia and Herzegovina, Switzerland, Austria, Hungary, Romania, Lithuania, Latvia, Sweden, Estonia, Portugal, Greece, Slovenia, Luxembourg, Palestine, Lebanon, Ireland, Finland, Norway, Croatia, North Macedonia) Russian-speaking regions (Russia, Ukraine, Kyrgyzstan, Uzbekistan, Moldova, Lithuania, Latvia, Georgia, Azerbaijan, Turkmenistan) SADC (Uruguay, Paraguay, Brazil, Argentina, Chile, Colombia, Peru, Ecuador, Guyana) North America (United States, Canada) Can be customized: Mongolia, Japan, Philippines, Vietnam, Laos, Cambodia, myanmar, Thailand, Malaysia, Singapore, Indonesia, Bangladesh, India, Pakistan, Curacao, Mexico, Guatemala, Costa Rica, Australia, New Zealand, Tunisia, Algeria, Ethiopia, Tanzania, Uganda, Equatorial Guinea, Japan, Zambia, Mozambique, South Africa, Mauritius
	Capture Rate
Recognition Rate	In the recommended installation and lighting condition, the recognition rate for positive and departing vehicles ≥ 96%; the recognition rate for European vehicle plates ≥ 98%



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