HM-AI-LPR Camera

HM-AI-Camera

AI-powered License Plate Recognition Camera

- Superior Image Quality
- Trafic Violation Detection
- AI-powered LPR
- Traffic Flow Statistics
- Easy Deployment



The Hypermicron HM-AI-LPR Camera family is a next-generation solution designed for comprehensive road traffic monitoring, these cameras merge top-tier imaging, smart analytics, and robust construction to deliver reliable performance in diverse environments.

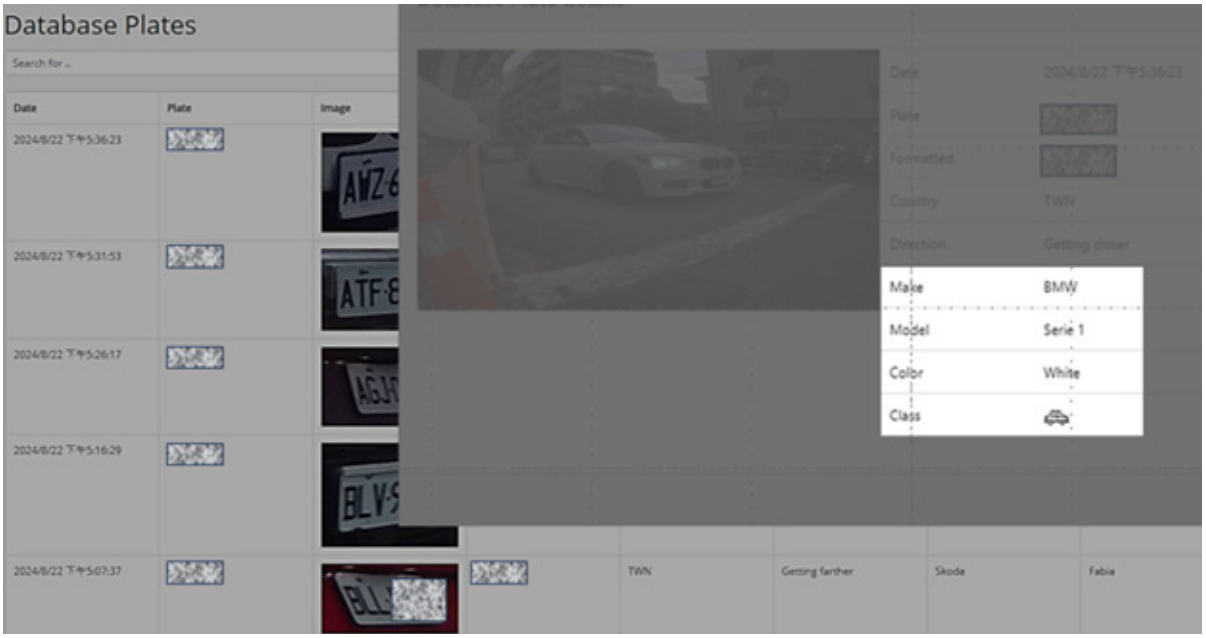
Traffic Violation Detection

Leveraging advanced AI, these cameras accurately detect and alert on various traffic infractions—including vehicles without plates, lane-specific violations, reverse driving, black/whitelist breaches, and other event triggers based on identified vehicle features.

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AI-powered LPR

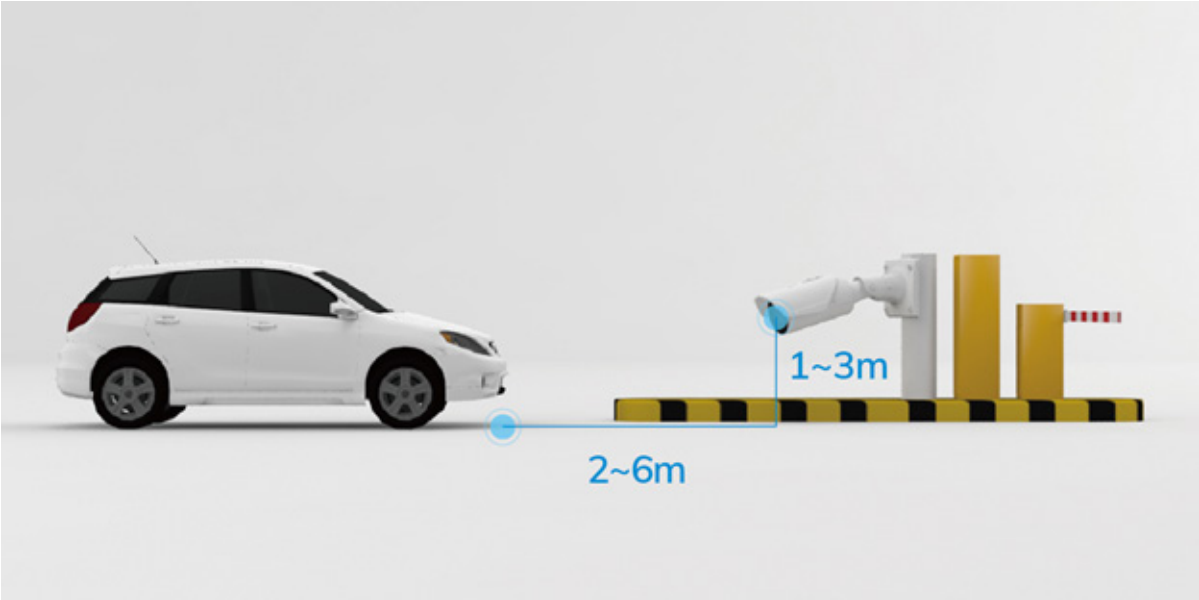


The HM-AI-LPR series not only reads license plates with high accuracy but also identifies vehicle type, color, and direction. This multifaceted analysis enhances access control and provides valuable forensic data, making it ideal for smart city applications.

Traffic Flow Statistics

Detailed traffic analytics are built into the system, with vehicle counts segmented by type, make, and other attributes. These statistics are clearly displayed in live views and can be compiled into insightful reports to support data-driven traffic management decisions.

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Designed for Broad and Easy Installation

Designed with user-friendly installation in mind, the cameras feature standard junction box mounting options for flexible setups. Their flagship housing meets IP-67 and IK10 standards, ensuring superior weatherproofing and durability under harsh environmental conditions.



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HM-AI-LPR Camera			
Camera	**Model**	**HM-AI-LPR-4MP**	**HM-AI-LPR-5MP**
	Image Sensor	1/1.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
	Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on	Color: 0.008Lux@F1.6 B/W: 0Lux with IR on
	Day/Night Mode	Day / Night / Auto / Customize / Schedule	
	IR WaveLength	850nm (Default); 740nm (Optional)	
	Shutter Time	1/100000s ~ 1/25s	
	Illumination Distance	Up to 180m	
Lens	Lens	8~32mm, 4X Optical Zoom Motorized zoom and focus, remotely adjustable	5.3~64mm, 12X Optical Zoom Motorized zoom and focus, remotely adjustable
	Field of View	H44°~H13° / D51°~D15° / V25°~V7°	H57°~H4° / D69°~D5° / V44°~V1°
	Focus Control	Auto/Manual	
	Aperture	F1.6~F1.7	F1.6~F2.8
Features	Max. Vehicle Speed	120km/h	
	Recognition Accuracy	>98%	
	Coverage	2 lanes (10m)	
	ANPR Distance	Optimal ANPR range at ambient light: 45m Maximal ANPR range at optimal conditions: 90m	Optimal ANPR range at ambient light: 80m Maximal ANPR range at optimal conditions: 150m
	Attributes Identification	Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, Noplate Vehicle Capture, Vehicle Direction Detection	
	Smart Traffic Function	Evidence Camera Linkage, Specific Lane Management	
	White/Blacklist	Up to 20,000 records inside the camera	
	LPR Smart Search	Support	

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Video	Max. Image Resolution	2688x1520	2592x1944
	Frame rate	30 fps	45 fps
	Video Compression	H.265+ / H.265(HEVC) / H.264+ / H.264 / MJPEG	
	Video Bit Rate	16Kbps~16Mbps (CBR / VBR Adjustable)	
Network	Network Storage	NAS (Support NFS, SMB / CIFS), ANR	
	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, SFTP, TLS	
System	System Compatibility	API, HTTP, TCP, ONVIF Profile G & M & S & T	
	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB	
	Ethernet	1*RJ45 10M/100M Ethernet Port	
	Advanced Function	BLC, HLC (Traffic mode), 2DDNR, 3DDNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark	
	Event Trigger	Network Disconnection, External Input, Audio Alarm, etc	
	Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc	
General	Working Temperature	-40℃ ~ 80℃	
	WorkingHumidity	5~90% (non-condensing)	
	Weatherproof	IP67	
	Housing	IK10	
	Power Supply	28VAC/PoE (802.3at)/DC12V±10%	
	SurgeProtection	4kV	
	Weight	1623g	
	Dimensions	320mm x 134mm x 171mm	
	Warranty	3/5 years	
Optional accessories	High-power LED infrared illuminator	Wavelength: 850 nm Flash intensity: adjustable, 60 LEDs Maximum range: 50m Protection: IP66	

HYPERMICRON PTE. LTD.
(+65) 9162 2454
www.hypermicronsg.com
9 Raffles Place, #29-05 Republic Plaza, Singapore (048619)