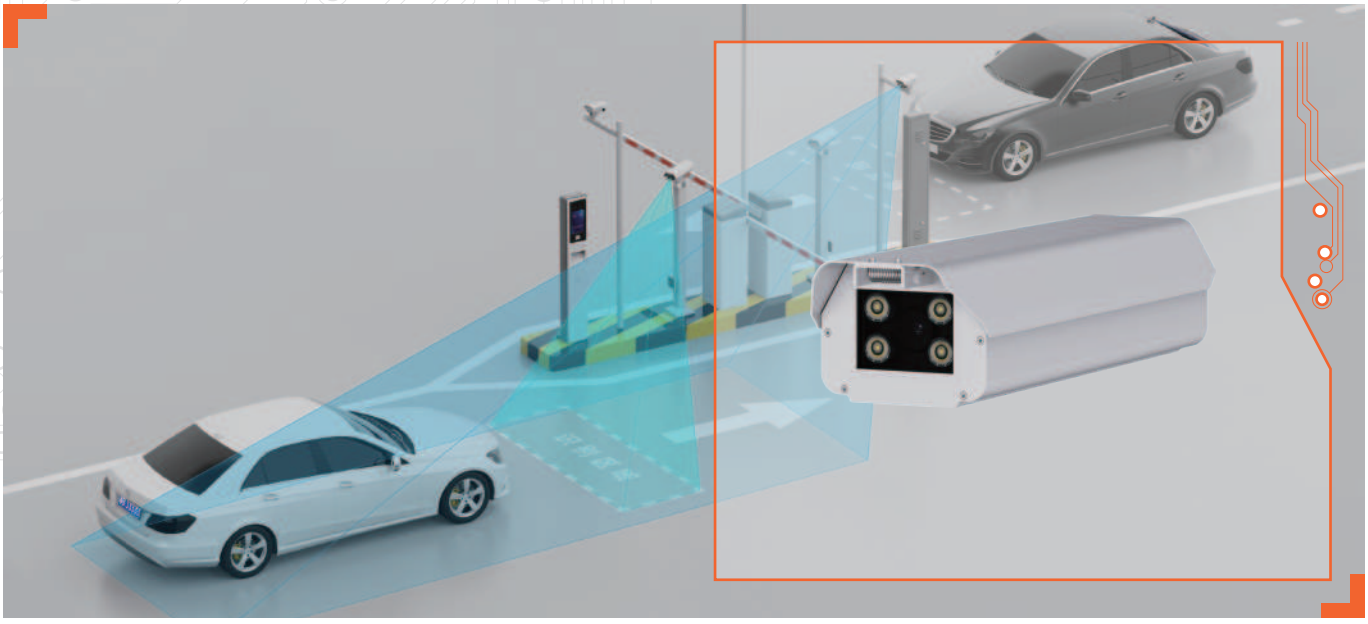
AI Powered ALPR Camera

ECV87-V5001C



Highlights

- Equipped with ICE V6.0 CNN deep learning algorithm, supporting wider-angle recognition with higher accuracy across all license plate scenarios to address key customer pain points
- Supports vehicle U-turn detection, overstay alerts, and high-precision anti-counterfeiting, making it ideal for unattended parking environments
- 5MP image resolution with upgraded ISP; scene-adaptive mode ensures excellent performance under both backlight and low-light conditions with enhanced detail clarity
- Supports independent camera encryption and validity period configuration
- Supports vehicle type and brand recognition
- Recognizes various special plate types (e.g. electric, in-factory, on-site, airport), meeting diverse non-standard recognition needs
- Supports web-based cross-platform remote access and public network video streaming
- Compatible with mainstream communication protocols including WebSocket, MQTT, HTTP POST, TCP, and SDK
- 40MB of extended space for secondary development
- 4-input / 3-output I/O design to receive and respond to peripheral device status changes

▪ Parameters

Hardware Specifications	Product Name	AI Powered ALPR Camera
	Model	ECV87-V5001C
	Processor	Dual-core ARM Cortex-A7, AI-capable
	Sensor Type	1/2.8" CMOS Image Sensor
	Minimum Illumination	0.1Lux
	Lens	Standard 6mm fixed lens; optional 3.3mm-10.2mm motorized zoom lens available
	Illuminator	4 high-power white LED lights
Performance Specifications	License Plate Recognition Accuracy	≥99.9%
	Output Data	License plate number, plate color, vehicle color, vehicle brand, vehicle type
	Supported Plate Types	Standard and special-format plates including single-line, double-line, reflective, non-reflective, commercial, diplomatic, military, and new energy vehicle plates; customizable plate pattern library for different countries and regions
	Trigger Mode	Loop,video(vehicle detection rate ≥99.9%),hybrid
	Smart Event Detection	Vehicle U-turn detection
		Vehicle overstay detection
		Electronic and printed license plate anti-counterfeiting detection
	Image Output	1620P(2880*1620)、1440P(2560*1440)、1296P(2304*1296), 1080P(1920*1080), 960P (1280*960), 720P(1280*720), D1(704*576)
	Snapshot Output	1620P(2880*1620)、1440P（2560*1440）, 1296P(2304*1296), 1080P(1920*1080), 900P (1600*900), 720P(1280*720), 540P(960*540), D1(704*396)
	Video Compression Format	H.264 ,H.265, MJPEG
Electrical & Interface Specifications	Network Interface	10/100M adaptive Ethernet, RJ45 connector
	I/O Interface	4 inputs / 3 outputs, 3.5mm terminal block
	Serial Interface	2 × RS485
	Audio Interface	1 inputs / 1 outputs
	USB Interface	1 port
	SD Card	Supports SD2.0 standard MicroSD (TF) card, up to 32GB
	4G	Built-in 4G module (optional, not included by default)
	Power Supply	AC220V/DC12V（optional）
	Power Consumption	≤3.5W
	Operating Temperature	-25℃~+70℃
	Ingress Protection	IP65
	Dimensions (mm)	148(W)*120(H)*452(D)