



Optima ANPR300 delivers superior license plate recognition accuracy with high-performance AI processing and powerful optical capabilities.

Thanks to its integrated storage and All-in-One design, it works independently without the need for an external server or PC. Its rugged structure for all weather conditions, wide recognition range, and advanced night performance make it the ideal solution for parking management, urban access points, traffic control systems and intelligent transportation applications.



AI-Powered
License Plate
Recognition

5MP

5 MP High
Resolution



On-Board
Storage



All-in-One Operation
(No External Server
or PC Required)



Mobile Access
(iOS & Android)



Blacklist /
Whitelist
Matching



3rd Party
Software
Integration



PoE
(IEEE 802.3af/at)
or 12/24 VDC
Power Input



Relay Output
for Arm Barriers
(Dry Contact)

KEY FEATURES

- ✓ 5 MP high resolution AI camera
- ✓ Real-time license plate recognition – accuracy over 99.8%
- ✓ Superior nighttime performance with IR illumination
- ✓ All-in-One design – no external server or PC required
- ✓ On-board storage for independent operation
- ✓ Multi-lane capture and high-speed recognition
- ✓ Real-time blacklist / whitelist matching
- ✓ Mobile access and management via iOS & Android devices
- ✓ Open API for third party software integration
- ✓ PoE (IEEE 802.3af/at/bt) or 12/24 VDC power input
- ✓ Rugged industrial design for all weather conditions

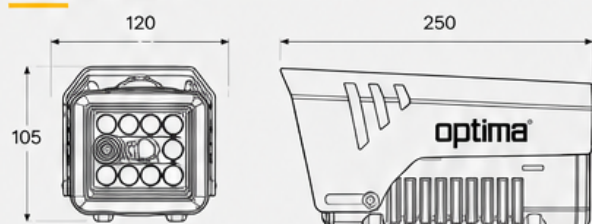
TYPICAL APPLICATIONS

- Parking Management Systems
- Commercial Buildings & Complexes
- City Access / Exit Points
- Logistics Centers & Warehouses
- Access Control Systems
- Industrial Facilities
- Tolling (ETC) Systems
- Intelligent Transportation Systems

TECHNICAL SPECIFICATIONS

Image Sensor	1/1.8" CMOS
Resolution	5 MP (2592 × 1944)
Lens	Motorized 6 ~ 22 mm
IR Illumination	Up to 30 m (98 ft)
Minimum Illumination	Color: 0.003 Lux @ F1.2 B/W: 0.001 Lux @ F1.2
Shutter Speed	1/25 s ~ 1/100,000 s
Video Compression	H.265 / H.264 / MJPEG
Frame Rate	25 fps
ANPR Accuracy	> 99.8%
Storage	On-Board Storage
Network Interface	1 × RJ45 10/100/1000 Mbps
Communication	TCP/IP, HTTP, HTTPS, FTP, NTP, DHCP, DNS
Integration	Open API (REST API / HTTP)
Mobile Access	iOS & Android
Power Input	12/24 VDC / PoE (IEEE 802.3af/at/bt)
Power Consumption	< 18 W
Operating Temperature	-30 °C ~ +65 °C (-22°F ~ +149°F)
Protection Rating	IP67
Dimensions	250 × 120 × 105 mm (9.84 × 4.72 × 4.13 in)
Weight	Approx. 2.2 kg (4.85 lb)

DIMENSIONS (mm)



SYSTEM ARCHITECTURE

