

TRAFFIC CAMERA

ANPR (AI Camera)

Transform checkpoints with our ANPR (AI Camera), the ultimate Automatic Number Plate Recognition (ANPR) System. Armed with a Sony Image Sensor, high-speed CMOS image sensor, and IP67 housing, it ensures superior performance for tough outdoor applications. Powered by large scale models, it hits a 99% Capture Rate & 98% Plate Recognition Rate while running a helmet detector and auto prosecution. It provides defense teams a lag-free vehicle dashboard with zero manual effort.

ANPR (AI Camera)

Official Brochure

SOLUTION SNAPSHOT

IN-CAMERA AI ANPR ENGINE	VEHICLE DEEP LEARNING ANALYSIS	BUILT IN 77GHZ FREQUENCY RADAR
140 DB TRUE WDR TECH	DIRECT BARRIER GATE CONTROL	ULTRA LOW LIGHT STARLIGHT SENSOR

Built for Real Operations

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CAPABILITIES

Key Features & Product Modules

Heavy-Duty Metal Body

Made from rugged industrial grade aluminum to ensure maximum strength, long-term outdoor survival, and protection against heavy impacts.

Vandal-Proof Shield (IK10)

Reinforced front impact cover built to resist physical damage, thrown stones, or intentional tampering at high-risk highway checkpoints.

Built-in Smart Motherboard

Features a powerful internal processing board that runs AI algorithms directly inside the camera for instant, lag-free data calculations.

Night Vision CMOS Sensor

Cooling Fin Structure

100% Weatherproof (IP67)

Fully sealed outer chassis that completely blocks out heavy monsoon rain, thick dust, and high humidity to protect internal electronics.

Sony IMX Powered HD Lens

Fitted with a premium Sony IMX image sensor and high-definition glass optical lens to capture crisp, unblurred license plates even at high speeds.

Integrated 77GHz Speed Radar

Contains a built in high frequency tracking radar module to read exact vehicle speeds instantly without requiring extra road sensors.

Smart LED Illuminator

Secure Signal Ports

Where This Product Fits

Major Highway Underpasses & Busy Intersections

Highway Toll Plazas & Electronic Toll Collection (ETC)

Industrial Estates & Corporate Office Parking Lots

Smart Residential Area & Housing Society Gates

Urban Road Traffic & Law Enforcement Systems

Software, Benefits & Outcomes

Vehicle Speed Enforcement

An automated speed tracking module designed to monitor highway safety and detect over-speeding vehicles instantly.

- Calculates exact vehicle speed automatically using the camera's built-in 77GHz radar.
- Instantly captures a high-resolution photo of the speeding vehicle's number plate.
- Generates readymade data logs for hassle-free automated prosecution and ticketing.

Blacklist Instant Interception

A high alert security module that scans every passing plate against a database of suspected, stolen, or illegal vehicles.

- Checks thousands of vehicles per second without slowing down highway traffic.
- Triggers loud, immediate audio and visual alarms in the command center during a match.
- Helps law enforcement and intelligence teams stop wanted suspects right at the checkpoint.

Wrong Way Driving Detection

An intelligent directional safety sensor that detects vehicles driving against the legal flow of traffic.

- Instantly spots any car or motorcycle entering a one-way road from the wrong side.
- Flags vehicles trying to bypass security checks or sneaking into VIP access lanes.
- Sends real-time alerts to gate operators to deploy physical road barriers immediately.

Illegal Parking & Stoppage Detection

A smart lane-monitoring tool built to keep restricted military zones, airport runways, and high-risk gates completely clear.

- Detects if a vehicle stops or parks unlawfully in a strict "No Parking" security zone.
- Triggers an automatic timer; if the vehicle stays too long, it flags it as a security threat.
- Reduces unexpected road blockages and helps maintain clean vehicle movement around busy entries.

VIP Escort & Priority Routing

A dedicated fast-track module designed for automated protocol management, high-profile convoys, and VIP security.

- Instantly recognizes pre-registered license plates belonging to VIPs or security forces
- Interfaces with automated boom barriers to grant seamless, stop-free entry clearance.
- Can connect with smart traffic signal networks to clear routes ahead of emergency convoys.



Case Studies & Client Feedback

"Detection accuracy improved by 40% after switching to this system. The AI-assist feature genuinely reduces operator fatigue during peak hours."

Col. (Retd.) Aminu Bello
Head of Security, International Airport Authority

RESOURCES

Media & Questions

Q. Can this system accurately read license plates during heavy monsoon rain or night fog?

A. Yes. The camera is equipped with a premium Sony IMX sensor and 140 dB True WDR technology. It automatically balances blinding headlights, heavy rain, and thick fog to capture crisp, readable plates 24/7.

Q. Does the camera require a continuous internet connection to detect blacklisted vehicles?

A. No. The camera has a Built-in Smart Motherboard and Edge Storage. It can store your priority blacklist database directly inside the hardware, allowing it to run checks and trigger local gate barriers even if the main network goes down.

Q. How durable is the hardware against extreme outdoor heat and vandalism?

A. The camera is built with an industrial metal body with IP67 weatherproof and IK10 vandal-proof ratings. It also features an advanced internal cooling system designed to run 24/7 under direct, blistering tropical sunlight without overheating or freezing.

Q. What happens if a vehicle is speeding at 120 km/h or more? Will it miss the shot?

A. Not at all. The system features a built-in 77GHz High-Frequency Radar. The radar tracks fast-moving vehicles and triggers the high-speed camera instantly, ensuring a 99% Capture Rate even at extreme highway speeds.

Q. Can this system detect traffic violations other than license plates?

A. Yes, it is an all-in-one traffic enforcement tool. The integrated software automatically detects Wrong-Way Driving, Illegal Parking in restricted zones, and features an automated Helmet Detector for motorcycle safety enforcement.

Ready to deploy ANPR (AI Camera)?

Talk to Nirikhon for product consultation, installation planning, integration support, and enterprise deployment.

Hotline: 01712345678 | Website: www.nirikhon.com