

TRAFFIC CAMERA

NIRIKHON AI ANPR Camera

The AI ANPR Camera by NIRIKHON (Model NKN798FGCZ57FA) is an intelligent vehicle recognition system built for law enforcement, border control, and highway traffic authorities across Bangladesh. Powered by an 8MP Sony IMX415 sensor and an embedded AI processing engine, it captures and identifies license plates in real time — even in heavy rain, dust, or low-light conditions. The system runs stolen vehicle detection, blacklist alerts, speed enforcement, and traffic violation analytics directly on-camera, without dependency



[NIRIKHON AI ANPR Camera](#)

[Official Brochure](#)

SOLUTION SNAPSHOT

Wrong Parking Detection	Lane Violation	Helmet and Seat Belt Detection
ANPR Detection	Red Light Violation	Stolen Vehicle Detection

Built for Real Operations

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CAPABILITIES

Key Features & Product Modules

AI Processing Board

Execute real-time AI analytics (ANPR, violation detection, vehicle classification) on-device. Faster response time, reduced bandwidth dependency, and uninterrupted checkpoint operation.

Power Supply Unit

Deliver stable, regulated power to all internal components. Protects the system from voltage spikes, surges, and lightning-related damage. Integrated surge suppression extends hardware lifespan in regions with inconsistent grid power and high monsoon lightning activity.

Internal Wiring & Signal Transmission System

Transmit power and data signals reliably between internal components. Consistent performance, reduced signal interference, easier field servicing. Modular wiring architecture allows technicians to isolate and replace individual components without disturbing the entire internal assembly.

Cable Connection Module

Provide secure, weatherproof external connectivity for power and data lines. Eliminates water damage at cable entry points, simplifies installation. Individually sealed gland ports outperform single rubber-grommet designs commonly used in lower-cost cameras, significantly reducing field failure rates during monsoon season.

Mounting Bracket Structure

Provide stable, adjustable, tamper-resistant camera positioning. Precise lane/angle alignment, stable long-term mounting, vandal resistance. Reinforced swivel-tilt joints maintain calibration accuracy over time, preventing the field-of-view drift that causes missed plate captures in vibration-prone highway environments.

Backplate Access Panel

Enable maintenance access without compromising weatherproofing. Faster servicing, lower long-term maintenance costs, and an extended equipment lifecycle. Sealed-access design balances field serviceability with continuous IP67 protection—a common trade-off that lower-grade cameras fail to solve without requiring full unit replacement.

Surveillance Module

This wired module provides a safe and very fast connection to send camera data without any delays. It protects the system from wireless hacking and signal problems, keeping your data completely safe. It uses a strong RJ45 port to transfer heavy data smoothly, making it perfect for busy roads and toll plazas.

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

OPERATIONAL VALUE

Software, Benefits & Outcomes

Live Monitoring Dashboard

Shows real-time video from all connected cameras in one screen.

- Control rooms can watch multiple roads or checkpoints at once, helping traffic police and highway teams respond faster to incidents.

Vehicle Search

Lets users search for a specific vehicle by its number plate.

- Useful for army, police, and security teams tracking a vehicle's movement across checkpoints or city zones.

Traffic Analytics & Reports

Aggregates violation data, vehicle volume, and detection trends into structured reports for operational and policy-level review.

- This system provides data and reports that help police and city teams track traffic problems and improve safety in every zone.

ANPR & Violation Management

Stores all detected number plates and violations in one system.

- Officers can review violation records anytime, making enforcement and reporting easier for police and highway authorities.

Evidence Management

Saves images and video clips of violations securely.

- Supports legal cases and investigations with reliable evidence, useful for police, RAB, and government departments.

AI-Powered Search

A natural-language and attribute-based search engine allowing operators to query historical data using plate number, vehicle color, type, time range, or location combinations.

- With fast and smart searching, investigative teams can easily track down suspect vehicles and speed up time-sensitive security operations.

Wrong Parking Detection	Lane Violation
Helmet and Seat Belt Detection	ANPR Detection
Red Light Violation	Stolen Vehicle Detection
8MP Sony IMX415 CMOS Image Sensor	Ultra HD 4K Resolution (3840 x 2160)
Motorized Varifocal Lens System	Smart IR Night Vision
H.265+ Video Compression	True WDR (120dB)
Embedded AI Processor	ONVIF Compatible
IP67 Weatherproof Design	Surge & Lightning Protection
Seat Belt Violation Detection	Entry Restriction Violation Detection
Stop Line Violation Detection	Lane Violation detection

Media & Questions

Nirikhon ANPR camera 2

Available with the online product presentation and deployment resources.

Q. Can the NIRIKHON ANPR camera work without internet connection?

A. Yes, the camera can record and detect violations locally. Internet is needed mainly for live remote monitoring and syncing data to the central dashboard from far locations.

Q. Can the camera detect vehicles on a blacklist or watchlist?

A. Yes, the system can match detected number plates against stolen vehicle records. Government agencies can add watchlists to flag matching vehicles automatically.

Q. Can violation evidence be exported for court or investigation use?

A. Yes, the evidence management feature stores images and video clips. These can be exported and shared for legal proceedings or internal investigations.

Q. Does the camera work during heavy rain or storms?

A. Yes, the IP67 weatherproof body and surge protection allow reliable operation during rain, humidity, and lightning common in Bangladesh's climate.

Q. Is the camera effective at night or in low light?

A. Yes, built-in IR night vision and True WDR technology keep number plates and vehicles clearly visible during nighttime and low-light conditions.

Q. Can this camera detect vehicles violating stop line rules at signals?

A. Yes, stop line violation detection is included. It captures vehicles that cross the marked stop line before signals change.

Q. How many traffic lanes can one ANPR camera cover?

A. This depends on road width and camera placement. The brochure highlights multi-lane detection capability, allowing one unit to monitor several lanes at busy intersections or highways.

Q. Can traffic police search a vehicle's violation history?

A. Yes, the management application includes vehicle search. Officers can look up past detections, violations, and evidence linked to any recorded number plate.

Q. Can multiple officers access the monitoring dashboard at once?

A. Yes, the management application supports live monitoring for multiple users. Control rooms and field officers can access feeds based on assigned permissions.

Q. Can this camera identify motorcycle riders without helmets?

A. Yes, helmet detection is a built-in AI feature. It flags riders without helmets automatically, supporting road safety enforcement by traffic police.

Q. Can highway police use this camera for wrong-direction detection?

A. Yes, wrong direction detection is included. It automatically flags vehicles moving against traffic flow, useful for highway safety enforcement.

Q. Is this suitable for city corporation traffic management projects?

A. Yes, features like ANPR, violation detection, and live monitoring suit a city corporation's needs for managing urban traffic and congestion.

Q. Can Roads and Highways Department use this for entry restriction zones?

A. Yes, entry restriction violation detection flags vehicles entering restricted areas, useful for highway checkpoints and controlled access roads.

Q. How does the camera handle bright sunlight or glare?

A. True WDR technology with 120dB range balances bright and dark areas in the same frame, keeping plates readable even in strong sunlight.

Q. Can government procurement teams request customized deployment for large projects?

A. Yes, NIRIKHON supports project-based deployment. Contact the sales team directly to discuss requirements for large-scale government installations.

Ready to deploy NIRIKHON AI ANPR Camera?

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

Hotline: 01712345678 | Website: www.nirikhon.com