

ITS INDIA CONGRESS 2026

Stopping Toll Revenue Loss from Spoofed License Plates

CELEBRATING 20+ YEARS OF CAMERA ENGINEERING

e-con Systems®

Think Vision. Think e-con.



Who we are

Our Partners: SONY | NVIDIA Elite Partner

Camera technology with core R&D and manufacturing in India

20+ years of global presence using technology

Built in India for the world



Courtesy: Nvidia, San Jose, 2017

Only Indian Nvidia Elite Partner for Advanced Technology

350+
Clients helped globally

3 Million
Cameras shipped globally

25,000+
Cameras in North American streets for ITS

300,000+
Robots powered globally

The problem

Increased ANPR cameras prompts people to hack/break the system

Spoofing of License Plates



Application of reflective paint on specific characters



Partial films for smudging the characters



Fully controllable blackout films

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The Impact in Western countries

Loss of Toll Revenue

42 Million USD

lost annually in New York

TRANSPORT FOR LONDON

49.8 Million GBP

lost annually in London

Decreases ANPR accuracy

Reduces ability to stop criminal activities.

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The solution

01

Traditional ANPR cameras use IR wavelength at 850nm

02

Using multiple wavelength of light combined with AI for detecting spoofed plates.

03

Additional crackdown by Law Enforcement.

LIGHT SPECTRUM

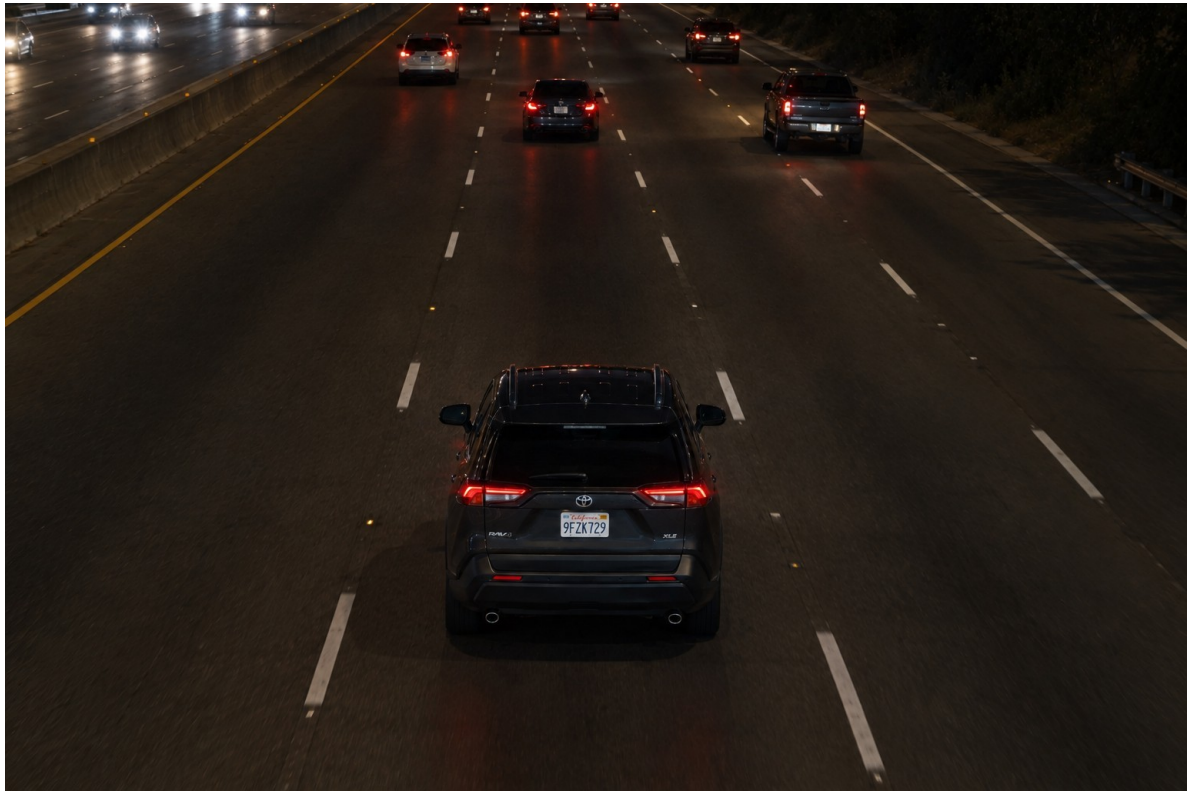


Visible light

IR – 850nm

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An example



A multilane freeway view at night from a context camera



Visible spectrum snapshot



IR spectrum snapshot

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An example



What a typical ANPR camera sees

VS



What a typical ANPR camera sees if the plate was spoofed

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The solution



Visible Spectrum

+



IR Spectrum

+

AI

Compare OCR details as well as additional vehicle fingerprint

=

VALID

Proceed for Toll collection

INVALID

Collect evidence package with more context data for review & enforcement

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AI enabled Smart Cameras

TrafficSenz



Single Vision ANPR Camera

- Purpose built for Tolling such as MLFF (multi lane free flow)
- 5MP Global Shutter for capturing fast moving vehicles
- Inbuilt AI for real-time ANPR recognition without the need for additional compute.



Dual Vision ANPR Camera

- Purpose built for AI enabled Enforcement
- 5MP Global Shutter camera for ANPR
- 8MP HDR camera for context of the scene
- Inbuilt AI for advanced traffic analytics & Enforcement

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Thank You!

