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Toll Roads Monitor

As road infrastructure develops and traffic volumes rise, toll road operators face an ever-increasing demand for speed, comfort, and safety. Adopting new technologies that don't disrupt traffic flow is a must, not only to keep up but also to enable the transition to the automated, optimised Multi-Lane Free-Flow model (MLFF).

Designed for real-time traffic monitoring with a primary focus on toll roads and toll gates, the solution provides operators more control over traffic.

AUTOMATE ALERTING

Receive queue and traffic volume alerts. Automatically notify operators about incidents.

MANAGE TRAFFIC AT EASE

Use it on its own or integrated with other tools via API as a part of the broader traffic management ecosystem.

MONITOR TRAFFIC FLOW

Automatically record parameters such as traffic volume, object speed, passage time, and dwell time.

APPLY IN ANY SCENARIO

Prevent congestion, manage emergency corridors, measure toll lane occupancy, and optimise managed lane usage.

Detect

ANPR TECHNOLOGY

Long-distance number plate reading enables MLFF tolling, car identification, and automated vehicle blacklisting.

INCIDENT DATA RECORDING

Automatically captures and saves road event data for post-incident analysis, reporting, and traffic planning.

VISUAL VERIFICATION

Operators can use camera feeds to assess and verify detected incidents with greater confidence.

ADJUSTABLE ALERTS AND DETECTION

Define triggers and tracked parameters such as direction, lane, or vehicle class, and create complex, multi-event road scenarios.

Report

HISTORICAL DATA

Analyse past road data to predict potential issues and improve traffic management strategies.

LIVE TRAFFIC DASHBOARDS

Use customisable widgets to display key traffic data in real-time and help operators keep their finger on the pulse.

PERIODIC LIVE REPORTS

Receive periodic reports in a spreadsheet or JSON format containing traffic counts and other performance indicators.

ON-DEMAND REPORTS

Generate specific tabular or visual reports directly in the GoodVision application.

Control

EASY INTEGRATION

Works seamlessly with third-party systems, allowing for centralised monitoring, management, and road sign activation.

COMPATIBLE WITH EXISTING CAMERAS

Connects to cameras directly or via third-party video management systems.

INTUITIVE USER INTERFACE

Puts all alerts, camera feeds, reports, and road management tools at operator's fingertips.

SMOOTH SCALING

Enables effortless adding of new sensors for easy scaling and addressing the growing demand.

Move towards seamless road management with **Toll Roads Monitor**

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Toll Roads Monitor covers all road sections

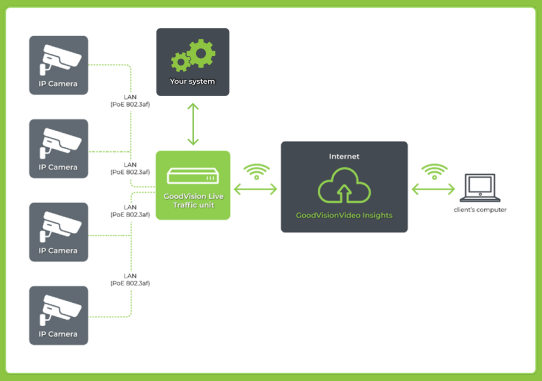
Off-plaza: Long-distance traffic flow monitoring allows tollgate operators to react to higher demand. The solution can also predict the queues if demand surpasses capacity.

At-plaza: Traffic incoming to the plaza is monitored for queues and its staff is informed about short-range demand.

In-plaza: ANPR helps automate tolling and can be integrated with multiple inputs and outputs of your choice.

Technical requirements:

- IP camera
- Processing unit
  - Server for in-house deployment (all major vendors)
  - Embedded device for on-site deployment
- Active account at my.goodvisionlive.com for configuration, management and reporting.



Video analysis is performed solely on the local device/server. Traffic reports, events and metrics are transferred to the GoodVision platform.

On-site devices do not store any video or other personal data. This prevents data breaches in case of unauthorised access or intrusion.

Recommended devices for on-site deployment:

Up to 4 camera streams:
Lanner EAI-I130B

- NVIDIA Jetson Xavier NX
- 16GB LPDDR4 memory, 16GB eMMC storage
- 2x GigE Poe LANs, 5G/LTE
- cellular network connection
- WiFi connection (802.11 a/b/g/n)

Up to 16 camera streams:
Lanner LEC-2290E

- Intel Core i7-9700, NVIDIA Tesla A2
- 32GB DDR4 RAM, mSATA 128GB
- + 2.5" SSD 256GB
- 2x GbE LAN + 4x GbE PoE LAN
- Extensions: 5G/LTE cellular network connection, WiFi connection (802.11 a/b/g/n)

Get in touch

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