Disrupted traffic flow, infrastructure repair costs, and, worst of all, dangerous collisions—traffic violations carry many risks, but as traffic gets more intense, TMC operators find it increasingly harder to track all incidents. Combing through endless camera feeds and reviewing events manually take time, forcing operators to prioritise the most serious cases and leave no time for the rest.

Fortunately, automation is the solution. And **GoodVision Traffic Violation Detection** is just that: an automatic, real-time traffic monitoring solution crafted specifically to track dangers on the road.

Empower your operators with real-time violation monitoring

The GoodVision Traffic Violation Detection has all functionalities needed to make sure that all incidents are detected and addressed on time by traffic operators

⚠ FULLY AUTOMATED INCIDENT TRACKING

The solution will flag and record all spotted violations and notify operators following user-specified incident criteria and scenarios.

🧩 VAST COMPATIBILITY

Traffic Violation Detection seamlessly connects to third-party tools you already use and to new and previously installed traffic monitoring and magnetic loop systems.

🎯 ACCURACY IN ANY CONDITION

Traffic Violation Detection combines high precision and low false alarm rates with resistance to weather, dense-traffic, camera movement, shadow, and light.

⚙ CENTRALISED, INTUITIVE USER INTERFACE

TMC operators can generate periodic and on-demand reports, analyse historical data, track alerts, all from a single console.

Leave no violation unseen

The solution independently recognises common incidents and violations, including:

- Speed limit violation
- Stop sign violation
- Wrong-way driving
- Forbidden turn and U-turn violation
- Illegal stop and parking violation
- Tailgating

- Driving on shoulder
- Stopped vehicles on the road and shoulder
- Person on the road (jaywalking)
- Forbidden lane-changing
- Occupying forbidden lane
- Discharging from and into the wrong lane on turn

Boosting safety and traffic flow

Traffic Violation Detection is a multi-purpose solution designed to help you limit road risks and manage traffic more efficiently through:

- Traffic congestion prevention
- Ticketing violators
- Priority lanes management
- Data-driven urban planning and optimisation

- Instant incident alerts
- Emergency service coordination
- Secondary accident prevention and live incident alerts for traffic management and drivers

Gain an advantage in the fight against traffic violators

Suitable for all road scenarios

» Customise events, collect data and build the violation detection system that works best in your specific traffic context.

✓ Connect camera feeds to help operators visually verify detected traffic incidents.

✓ Create your own event trigger criteria based on direction of travel, lane, object class, and other parameters.

✓ Use automated number plate recognition for quick violator identificaiton.

✓ Easily expand the solution with other GoodVision products, feature addons, and extensions.

✓ Automatically record traffic parameters such as traffic volume, speed, gaps between vehicles, dwell time, and passage time.
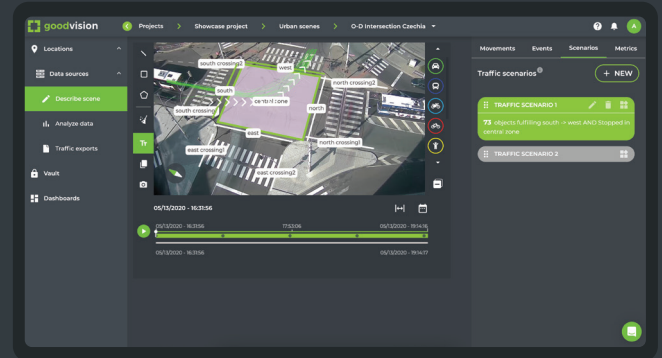
Technical requirements:

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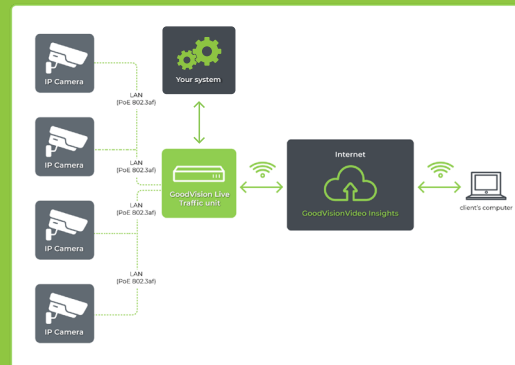
Video analysis is performed solely on the local device/server. Traffic reports, events and metrics are transferred to the Video Insights platform.

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	Up to 16 camera streams: Lanner LEC-2290E
NVIDIA Jetson Xavier NX	Intel Core i7-9700, NVIDIA Tesla A2
16GB LPDDR4 memory, 16GB eMMC storage	32GB DDR4 RAM, mSATA 128GB
2x GigE Poe LANs, 5G/LTE	+ 2.5" SSD 256GB
cellular network connection	2x GbE LAN + 4x GbE PoE LAN
WiFi connection (802.11 a/b/g/n)	Extensions: 5G/LTE cellular network connection, WiFi connection (802.11 a/b/g/n)