

# AXLE

LECTOR VISION

## CUBE EVOLUTION AXLE



Artificial Vision



Side-profile capture



Signed metadata



Integration with other platforms



TOLLING

ITS

**Cube AXLE** is an automatic axle-counting solution designed to improve vehicle classification for tolling and control environments. Using computer vision models, it reliably identifies and counts axles in continuous operation, generating results and evidence that integrate seamlessly with ITS and back-office workflows.



**Capture the full vehicle profile and increase counting accuracy.**



**Accurate axle recognition, including complex vehicles (articulated trucks, trailers, vans).**



**Axle-based classification including axle count, twin axles and lifted axles.**

# CUBE EVO

## Technical details

LECTOR VISION



**Cube Evolution AXLE** is designed to replace or complement traditional axle-counting technologies with a scalable vision-based approach, providing better traceability and dependable 24/7 operation in real-world conditions.

## ADVANTAGES

- **Lower operational effort and maintenance** by avoiding common in-road detection systems.
- **Improved axle-based** classification accuracy, supporting tariff/category enforcement.
- **Day/night reliability** supported by IR synchronisation and robustness against **lighting/weather variability**.
- **Strong auditability** with per-transit photo/video evidence and metadata for validation.

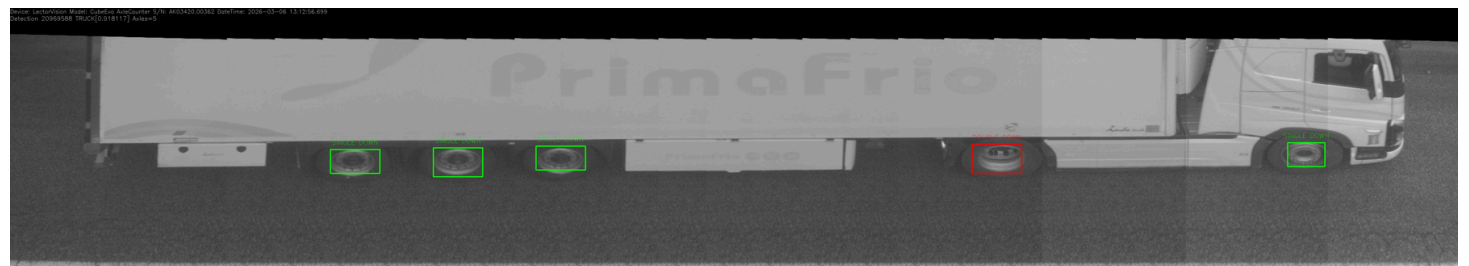
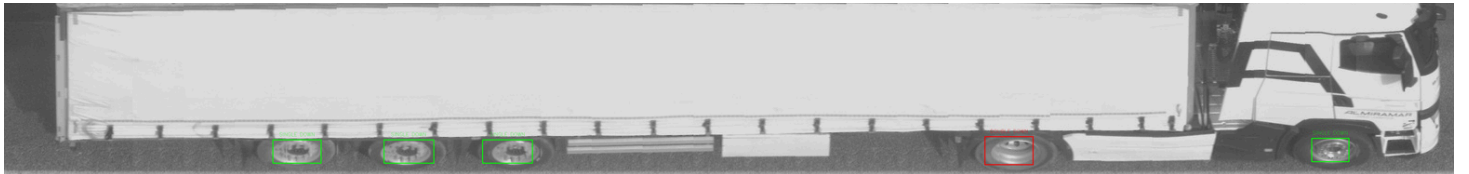
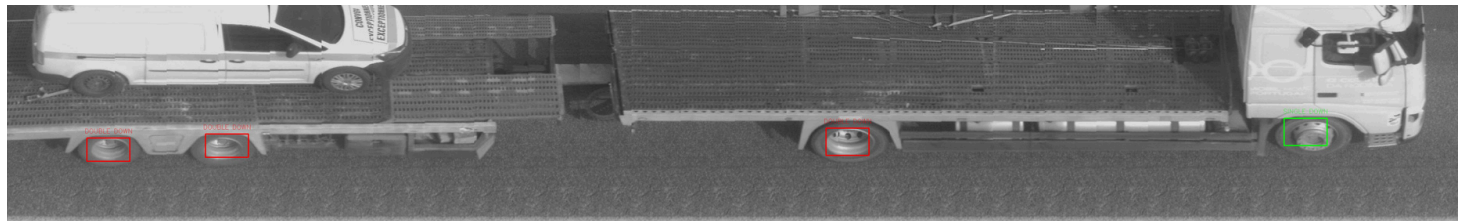
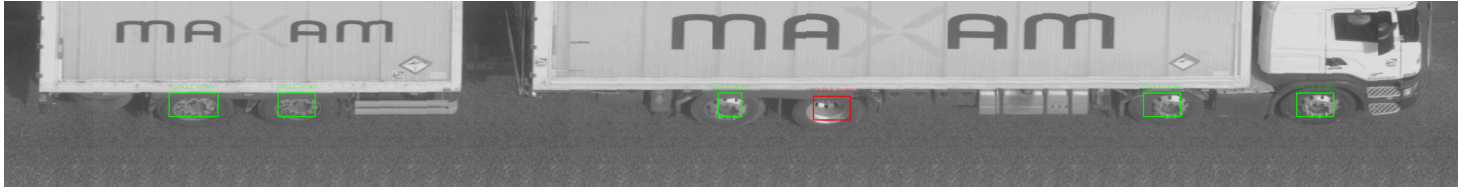
### Features

- Dual CMOS sensor (B/W + Colour), 2.3 MP (1920×1200, 1/2.6").
- High FPS rate for smooth vehicle capture and tracking.
- Motorised 5.1–50 mm lens with autofocus (iris/zoom/focus adjustable).
- Embedded processor with onboard OCR/analytics capability.
- Pulsed IR illumination for reliable capture in low-light conditions.
- IP67 housing and -40 °C to +70 °C operating range.

### All-in-one system

- Edge-based axle counter device with one independent unit per track lane for reliable and real-time detection.
- Quick and easy deployment without civil works, powered by edge vision.
- Simplified maintenance and lower operational risk.
- CAPEX/OPEX optimisation through reduced infrastructure and streamlining upkeep.

## Real cases



Small text at the bottom left of the Primofrio image, likely a license or identification number.