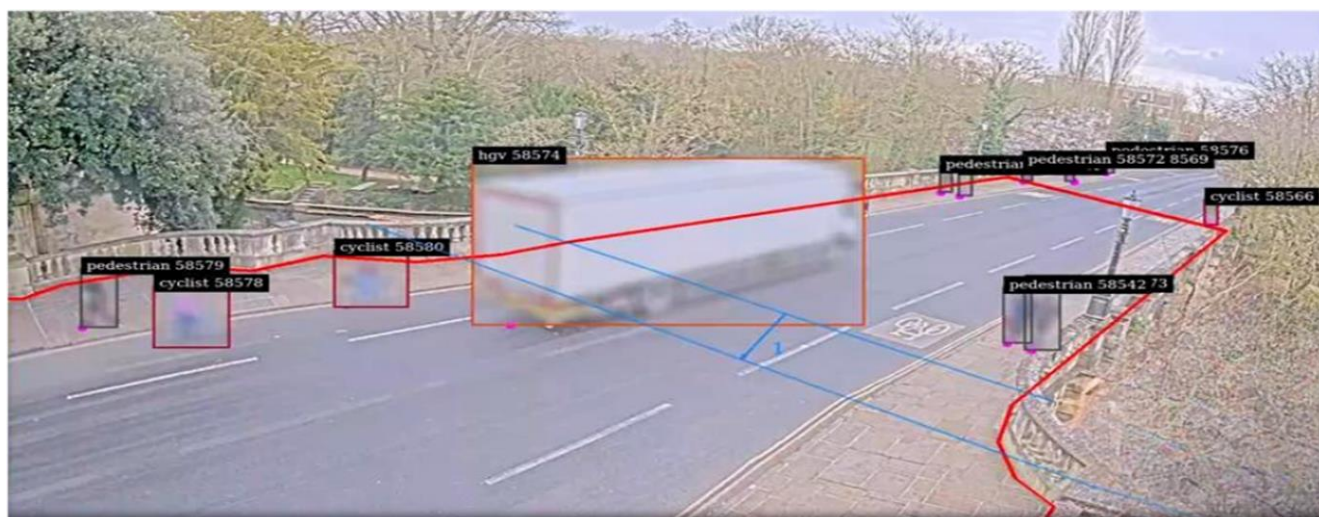


Connex Vision



Built on our adaptable Connex hardware platform, Connex Vision is a powerful AI-driven video solution **redefining traffic monitoring**. Using industry-standard cameras, it delivers real-time insights into traffic behaviour, empowering organisations to optimise transport networks with precision and efficiency.

Multi-Modal Traffic Management

Connex Vision classifies up to eight traffic modes, including pedestrians, cyclists, cars, LGVs, HGVs, articulated HGVs, buses and motorbikes. This ensures a comprehensive and reliable view of all road users, enabling accurate traffic monitoring across diverse transport environments.

High-Precision - Non-Invasive Solution

With object-by-object detection, Connex Vision collects granular data on traffic flow, user behaviour, and safety risks, enabling informed decision-making. Its non-invasive design reduces installation time and costs by avoiding road surface modifications, ensuring quick deployment with minimal traffic disruption - ideal for busy urban environments.

Integration, Flexibility and Choice to Integrate

One of the most significant advantages of Connex Vision is its seamless integration with existing infrastructure. Whether utilising Clearview's Insight Data Management System or an organisation's own platform the system provides a centralised, real-time traffic monitoring solution. This flexibility makes it easy to implement in both new and legacy transport systems, ensuring authorities can enhance their traffic management without overhauling existing infrastructure. While many other operations are designed to work exclusively with their own data management platforms, Connex Vision gives authorities the choice to integrate with other platforms.

Privacy Compliance

A particularly important feature is its built-in GDPR Built-in GDPR compliance ensures privacy by blurring sensitive data like faces, license plates, and cyclist identifiers in real time while still providing valuable traffic insights.

Real-Time Monitoring and Event Detection

Connex Vision enhances route safety with real-time video streaming, allowing users to monitor traffic and respond to incidents as they happen. I

ts advanced event detection and contact closure feature identify critical events - such as wrong-way drivers, pedestrians in restricted areas, and hazardous behaviours - all through a single camera.

The system can detect:

- Vehicle speed, lane, class, and direction (e.g., wrong-way detection)
- Objects entering or exiting defined detection zones
- Stopped vehicles and headway gaps between vehicles
- Poor visibility due to weather or lighting conditions

Contact Closure & PLC Logic

When a critical event is detected, Connex Vision can instantly send alerts to the Insight data platform for logging or action. At the same time, it can activate a contact closure output to control local devices - such as opening a barrier, triggering a VMS sign, or sounding an alarm - enabling real-time, on-the-ground responses.

At the core of this capability is an advanced Programmable Logic Controller (PLC). The PLC allows users to define sophisticated, rule-based logic tailored to the specific needs of each site.

For example:

<IF> a vehicle is approaching at a speed above 30mph
<AND> there is a stationary vehicles in Zone 2, then
flash a warning sign

By combining event detection, contact closure, and PLC logic, Connex Vision delivers a fully automated, intelligent solution for modern traffic and safety management.



Additional Camera and VMS Integration

For complex junctions or high-risk areas such as floating bus stops, a second camera can be deployed to improve monitoring and detect potential conflicts between road users.

Connex Vision can also integrate with Variable Message Signs (VMS), triggering real-time alerts to warn cyclists, pedestrians, or drivers of potential hazards. This proactive approach enhances safety by providing immediate, location-specific warnings to road users, helping prevent incidents before they occur.

Key Features

Multi-Modal Traffic Classification - identifies 8 traffic modes - pedestrians, cyclists, cars, (LGVs), (HGVs), articulated HGVs, buses/coaches, motorbikes for precise traffic monitoring

Object-by-Object Detection - highly accurate granular data for deeper insights into traffic patterns

Advanced Event Detection - identifies potential hazardous events such as wrong-way driving, pedestrians on the road

Compliance with GDPR - blurs faces, license plate, and cyclist identifiers in real-time for privacy protection

Real-Time Video Streaming - enabling faster decision making



Future-Proofing the Transport System

Machine learning adapts to changing traffic patterns, emerging transport modes and new technologies. It ensures long-term effectiveness as cities grow, optimising real-time traffic management to meet the demands of smart infrastructure.

Insight Platform Integration

Connex Vision seamlessly integrates with Clearview Intelligence's Insight Data Management platform, offering advanced device management, data collection, analysis, and live stream capabilities. While Insight provides a suite of applications and tools, Connex Vision also offers the flexibility to integrate with other platforms, allowing users to tailor the system to their existing infrastructure.

Key Benefits

Integration, Flexibility and Choice - seamlessly integrates with Clearview's Insight platform or other existing data management systems to meet the specific needs of users

Minimal Disruption Installation - non-invasive allows for fast deployment with minimal impact on traffic, saving time and resources

Machine Learning ensures the system evolves with changing traffic patterns

Interoperability and Choice - supports integration with various sensors consolidating data into a unified platform for enhanced traffic management

Additional camera can be added for extra perspective, complex junctions or high-risk areas

Sustainability - operable from a renewable energy



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