

Connex Vision

Object Detection & Classification

A single Connex Vision unit can simultaneously track and analyse hundreds of objects, making it ideal for high-traffic environments with mixed road users.

Multi-Modal Detection (VA8 Class Scheme):

Person
Cyclist
Car
Van
LGV
HGV (incl. articulated)
Bus/Coach
Motorcycle

Count Lines:

Up to 16 virtual count lines per unit. Objects are only counted when crossing these configurable lines, enabling precise movement and flow analysis.

Camera:

Utilises industry-standard cameras to provide real-time traffic behaviour insights, supporting data-driven transport network optimisation. Features:

Focal Length: 2.8–8 mm
Optical Zoom: 2.9times
Field of View: Horizontal: 106°–38°; Vertical: 78°–29°
Resolution: 1920 × 1080 (Full HD)

Weight, Mounting & Power Specifications:

Weight: Connex Unit 7.5 kg

Mounting Height: Optimised for installation at 5–6 meters on standard street lighting columns

Field of View: Calibrated to focus on objects positioned 20–30 meters ahead of the camera

Power Supply: Supplied with a 120W single-output switching power supply



Contact Closure

The Connex Vision unit includes a powerful contact closure feature that uses programmable detection zones to detect specific events, such as a pedestrian Safety- detects crossing outside designated zones or a vehicle going the wrong way. When an event is detected, the system can trigger alerts or actions through the Insight data platform or by activating a switch contact in the unit.

PLC Logic

The built-in Programmable Logic Controller (PLC) allows for sophisticated conditional triggers—for example, activating a VMS sign if a cyclist is approaching and Zone 1 is already occupied. This, combined with configurable detection zones and contact closure outputs, enables the development of advanced, flexible safety and control systems tailored to specific operational needs.

Privacy Compliance

Built-in GDPR compliance ensures privacy by automatically blurring faces, license plates, and cyclist identifiers in real time, while still delivering actionable traffic insights.

License Plate Recognition

Connex Vision captures license plate data for analysis or export via Insight Pivot Reports. Data is available in both encrypted and raw formats, depending on user requirements