

# TrafiCam X-STREAM



*TrafiCam x-stream is an integrated solution for vehicle detection.*

TrafiCam x-stream is an integrated camera and detector offering **vehicle presence detection** and **MPEG-4 image compression**.

This intelligent system provides **detection and monitoring** of moving and stationary vehicles at signalized intersections. Via detection outputs, vehicle presence information is transmitted to the traffic controller so that signal timing can be adjusted dynamically, resulting in **reduced waiting time**, improved traffic flow and less pollution.

TrafiCam x-stream is an **IP-addressable** video detection sensor. **Streaming video** at full frame rate is available for system and traffic monitoring. Users can configure, view and control the system both on-site and remotely.

The system **setup is quick-and-easy**: a user-friendly PC tool allows connecting to all TrafiCam x-stream devices on the network. A camera image is available for accurate and fast positioning of the 'virtual' presence detection zones. Making the system operational is done in only a few minutes.

TrafiCam x-stream is a **cost-effective and reliable** solution that offers all benefits of video detection. This is an above-ground system without expensive installation and maintenance costs, typical for traditional inductive loops.

TrafiCam x-stream is based on **field-proven** video detection technology and is part of the **Traficon** product range. Traficon is worldwide recognized as the market leader in traffic video detection.



*This above-ground sensor allows quick and flexible installation.*

## KEY FUNCTIONALITIES

- » VEHICLE PRESENCE DETECTION AT SIGNALIZED INTERSECTIONS
- » STOP BAR AND ADVANCE DETECTION
- » STREAMING VIDEO

## KEY BENEFITS

- » ALL-IN-ONE SENSOR (CAMERA + DETECTOR)
- » ABOVE-GROUND SENSOR
- » MPEG-4 IMAGE COMPRESSION
- » IP-ADDRESSABILITY
- » REAL-TIME VERIFICATION AND MONITORING
- » EASY INSTALLATION AND QUICK CONFIGURATION
- » LOW POWER CONSUMPTION
- » UP TO 24 'VIRTUAL' DETECTION ZONES
- » RELIABLE DETECTION 24/7
- » FIELD-PROVEN TRAFICON DETECTION ALGORITHMS
- » AESTHETICAL DESIGN, USING DURABLE MATERIALS

## MINIMISING VEHICLE WAITING TIME AND REDUCING CO<sub>2</sub> EMISSIONS

The main goal of TraftiCam x-stream is to reduce vehicle waiting time and to create smoother flowing traffic in cities. This also brings **additional benefits to the environment** as sitting at traffic lights is a major cause of – avoidable – vehicle emissions.



Verification and viewing of the vehicle presence detection zones can be done from the TMC.

### GREEN ON DEMAND

A typical TraftiCam x-stream application is direct replacement of inductive loops to do **stop bar detection** at intersections with traffic lights.

Both moving and stationary vehicles (including bicycles and motorcycles) can be detected, from an overhead or a side-fire position.

A common application is green on demand. If there is no vehicle present, there will be no green for that particular phase.

### LENGTHENING THE GREEN TIME

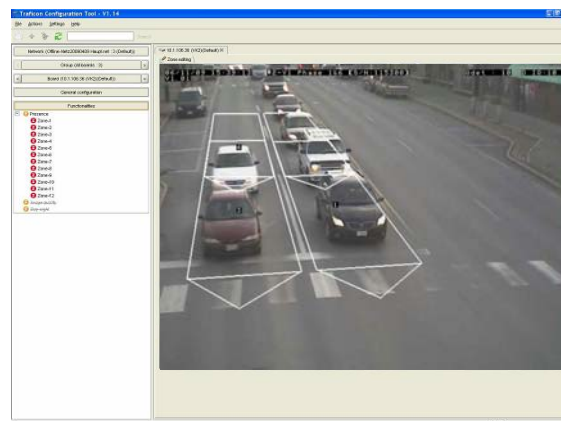
TraftiCam x-stream can also be used for **advance detection**: detection of traffic approaching an intersection. It can replace inductive loops and radars. A common application is lengthening the green time. If there is a vehicle in the dilemma zone - the zone where the driver can hesitate between stopping or driving in case the traffic light turns to amber - the green time can be extended until the vehicle has left the area.

### FAST & EASY SYSTEM SETUP

TraftiCam x-stream is easy to install. It can simply be mounted on existing infrastructure. A flexible bracket allows horizontal and vertical mounting.

Configuration of the sensor is done on site via portable PC with pre-installed **user-friendly** software.

Using camera images (JPEG snapshot), virtual presence detection zones can be positioned accurately. Verification and viewing of the detection is possible via **MPEG-4 streaming video**.



User-friendly TraftiCam x-stream configuration PC software.

### RELIABLE DETECTION 24/7

Based on field-proven Traficon video detection technology, detection performance is highly reliable for any road surface, day and night. Advanced filters in combination with **smart detection algorithms** allow TraftiCam x-stream to be used for vehicle detection at night (detection on headlights or taillights when no/poor public illumination) and to suppress unwanted detections that can be caused by e.g. vehicle shadows or headlight reflections.

A fail-safe mode is integrated into the TraftiCam firmware just in case accurate detection is not possible due to power failure, dense fog or when the lens is covered by snow or dirt.