

# SAFEWALK

PEDESTRIAN PRESENCE SENSOR



SafeWalk is an above-ground sensor for pedestrian detection.

SafeWalk integrates stereovision technology and intelligent detection for **pedestrian presence detection** at kerbsides.

The main goal of SafeWalk is to **improve pedestrian operations and safety at traffic signals**. By detecting waiting pedestrians and, at the same time, by managing and controlling traffic lights more dynamically, this intelligent sensor reduces unnecessary delays to both pedestrians and motorists.

This **above-ground sensor** is designed to view a detection zone adjacent to the pole to which it is mounted. Stationary pedestrians or those moving in the designated zone waiting to cross a roadway will generate a detect state 24/7 in urban conditions.

SafeWalk is based on **field-proven** stereovision video detection technology and is part of the **Trafficon** product range. Trafficon is worldwide recognized as the market leader in traffic video detection.

## KEY FUNCTIONALITIES

- » DETECTION OF PEDESTRIANS WAITING TO CROSS THE ROAD
- » DETECTION OF APPROACHING PEDESTRIANS INTENDING TO CROSS THE ROAD

## KEY BENEFITS

- » ALL-IN-ONE SENSOR (CAMERA + DETECTOR)
- » ABOVE-GROUND SENSOR
- » STEREOVISION 3D TECHNOLOGY
- » ACCURATE ZONE POSITIONING
- » MPEG-4 STREAMING VIDEO
- » IP-ADDRESSABILITY
- » RELIABLE DETECTION 24/7
- » FIELD-PROVEN PEDESTRIAN DETECTION ALGORITHM

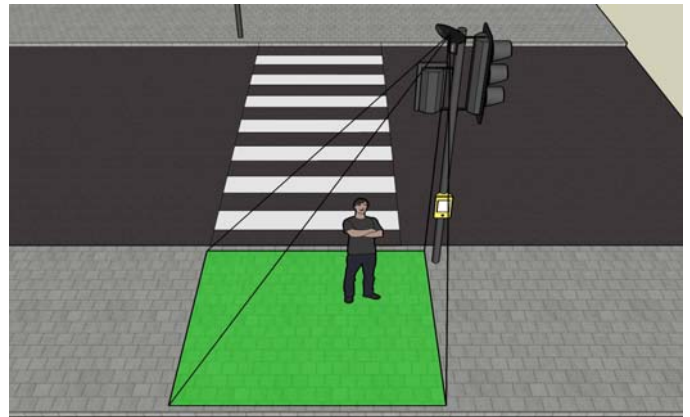


By monitoring the kerbside near zebra crossings, SafeWalk can increase safety and efficiency for both pedestrians and motorists.

## KERBSIDE PEDESTRIAN DETECTION

The stereovision video image processing technology is used for the detection and monitoring of pedestrians who are waiting to cross the street within a user definable zone. As soon as a pedestrian enters a predefined detection zone ("virtual loop") and is waiting for a configurable time, a detection output is provided to the traffic light controller, enabling the software to **activate the green time for the pedestrian**.

The SafeWalk can hold **the red time for pedestrians** for as long as there is no pedestrian presence, making traffic flow more fluent and efficient.



SafeWalk detects pedestrians waiting to cross the road.



SafeWalk installation is quick and easy.

## QUICK SYSTEM INSTALLATION

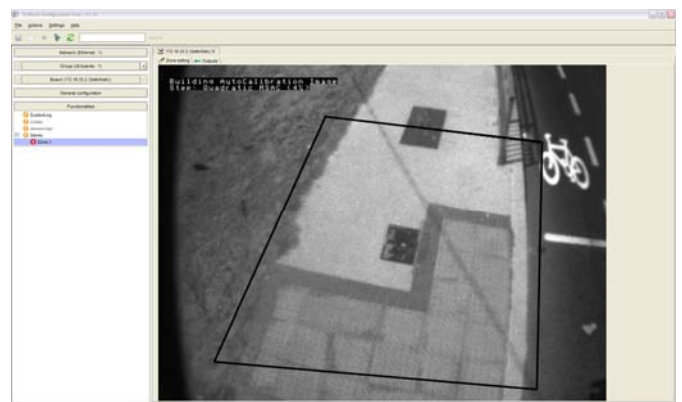
SafeWalk is designed to avoid expensive installation and maintenance costs. As such, **the installation process is quick and simple**: install it, connect it and start analyzing the pedestrian detection zone.

This sensor can simply be mounted on existing infrastructure. Also, a flexible bracket allows horizontal and vertical mounting.

## USER-FRIENDLY SYSTEM CONFIGURATION

Configuration of the sensor is done via portable PC with pre-installed **user-friendly** SafeWalk software. Configuration takes less than five minutes and can be performed by any user – no specialist knowledge is required.

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



No specialist knowledge is required for configuring this sensor.

## TECHNICAL SPECIFICATIONS SAFEWALK

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### HARDWARE:

- **General:**
  - o Material:
    - Fiber reinforced polycarbonate
  - o Mounting bracket:
    - Integrated connection box
    - Retaining straps or bolts to be used for fixation
  - o Mass  $\approx$  780g
  - o Height x Width x Depth
    - 23cm x 31cm x 18cm
  - o Temperature range: -34°C to + 80°C
  - o Humidity: up to 95% non-condensing
  
- **Camera type:**
  - o 2 x CMOS 1/3" B&W
  - o VGA (640x480) resolution
  - o 3mm lens
  
- **Input power:**
  - o 24 to 48 V AC/DC
  - o Consumption < 150 mA @24VDC
  
- **Outputs:**
  - o 1 optical coupled dry contact configurable close or open on event
  
- **Communication:**
  - o Ethernet for configuration & monitoring
  
- **Video compression:**
  - o MPEG-4
  - o Frame rate: 25 FPS
  - o RTSP stream up to 4Mbit/s



### REGULATORY:

- **EMC: electromagnetic compatibility – 2004/108/EG**
  
- **FCC: FCC Part15 class A**
  
- **Materials: all weatherproof UV-resistant**
  
- **Protection Grades: housing IP68, connection box IP65**

## SOFTWARE:



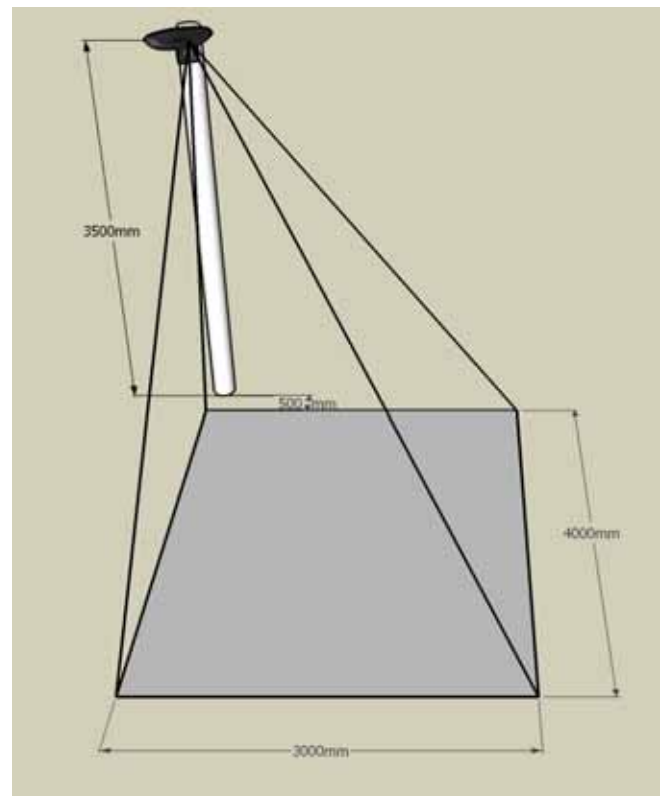
- **TCT (Traficon Configuration Tool) on PC with LAN connection:**
  - o Detection zone setup
  - o Parameter configuration:
    - Delay time
    - Extend time
    - Detection hold time
  - o Output assignment
  - o Detection led activation
  - o Detection verification
  
- **VLC media player on PC with LAN connection:**
  - o View, record & playback MPEG-4 streaming video

## MOUNTING:

- **Installation height:** 3m50
- **Fixation with retaining straps or bolts M8**
- **Detection FOV:** 3m x 4m
- **Offset:** 500mm

## CABLING:

- **Cables not included**
- **Setup:**
  - o 1 Ethernet STP or UTP cat5e
  - o Power & Output:
    - 4-wired AWG22 UV resistant
    - Cable diameter 2mm – 6mm
  - o Cable gland



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YOUR CONTACT

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