

SISTEMI PER LA GESTIONE DEL TRAFFICO - TRAFFIC CONTROL SYSTEM



PEDESTRIAN PRESENCE 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, thanks to the "know how".

MAIN FUNCTIONALITIES

- Detection of pedestrians waiting To cross the road
- Detection of approaching pedestrians Intending to cross the road

MAIN 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



SafeWalk is an above-ground sensor for pedestrian detection



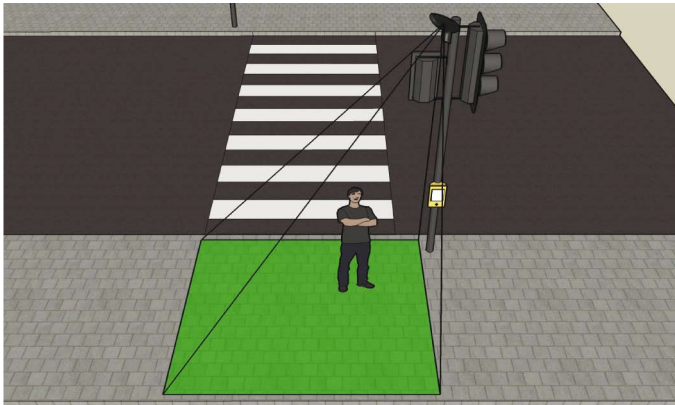
By monitoring the kerbside near zebra crossings, SafeWalk can increase safety and efficiency for both pedestrians and motorists.

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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"), 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

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

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., take only 15 minutes.

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



SafeWalk installation is quick and easy

HARDWARE

GENERAL

Material:

- Fiber reinforced polycarbonate
- Mounting bracket:
 - Integrated connection box
 - Retaining straps or bolts to be used for fixation

Weight ≈ 780 gr

Height x Width x Depth: 23 cm x 31 cm x 18 cm

Temperature range: -34° C to 80° C

Humidity: up to 95% non-condensing

Camera type:

- 2 x CMOS 1/3" B&W
- VGA (640x480) resolution
- 3mm lens



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Input power:

- 24 to 48 V AC/DC
- Consumption < 150 mA@ 24 VDC

Outputs:

- 1 optical coupled dry contact configurable close or open on event

Communication:

- Ethernet for configuration & monitoring

Video compression:

- MPEG-4
- Frame rate: 25 FPS
- RTSP stream up to 4Mbit/s

TEST & CERTIFICATES

- EMC: electromagnetic compatibility – 2004/108/EG
- FCC: FCC Part 15 class A
- Materials: all weatherproof UV-resistant
- Protection Grades: housing IP68, connection box IP65

SOFTWARE

TCT (Traficon Configuration Tool) on PC with LAN connection:

Detection zone setup

Parameter configuration:

- Delay time
- Extend time
- Detection hold time

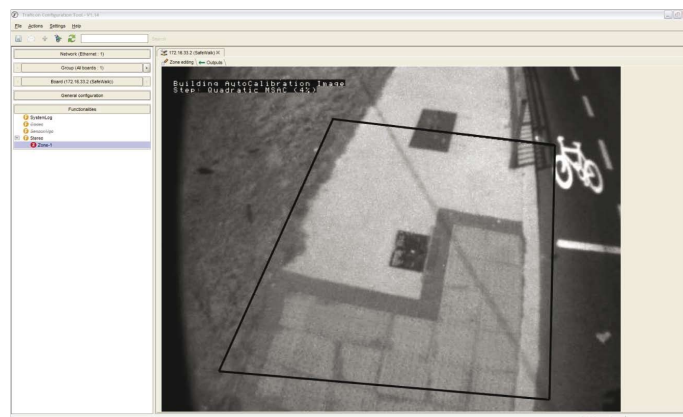
Output assignment

Detection led activation

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:

- 1 Ethernet STP or UTP cat5e

Alimentazione:

- 4-wired AWG22 UV resistant
- Cable diameter 2mm – 6mm

Cable gland

AUTHORIZED DISTRIBUTOR



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