

SMART PEDESTRIAN CROSSING

BETTER DRIVER PERCEPTION · HAWKAI VIDEO DETECTION OF PEDESTRIANS



Overview

The camera recognises a pedestrian **before they step onto the road** and only then switches on the amber LED flashers, the sign's internal lighting and the crossing's LED lighting.

Drivers are warned only when a pedestrian is really there – so they don't learn to ignore it. The system works day and night and tells people apart from vehicles, bicycles, animals and static objects.

How it works



AI VIDEO DETECTION

Neural-network software watches the approach zones and the marked crossing and recognises a human figure in real time.



DRIVER WARNING

As soon as a pedestrian is present, the amber LED flashers and the sign's internal lighting switch on.



ADAPTIVE LED LIGHTING

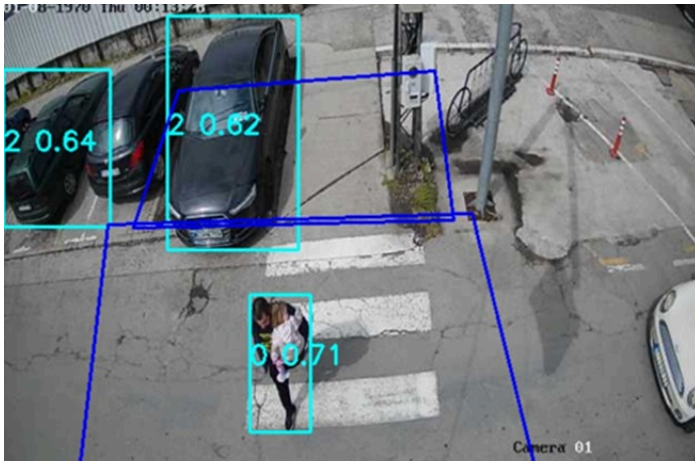
Lighting is boosted dynamically, only in the zone where pedestrians and vehicles meet.



STATISTICS

Every detection is logged: pedestrians per hour and per day, peak loads and number of activations – data for safety analysis and planning.

DETECTION AND ACTIVATION



HAWKAI – PEDESTRIAN DETECTION

Video detection covers the approach zones and the crossing.

- ✓ **Early detection** – the pedestrian is recognised before stepping onto the road
- ✓ **Selective tracking** – no "false" alarms from vehicles, bicycles, animals or static objects
- ✓ **Continuous processing** – every frame, with the pedestrian's exact position and movement



BY DAY – AMBER LED FLASHERS

They switch on when the system detects a pedestrian on the approaches to the crossing or on the marked crossing itself.

- ✓ Light pulse active only while a pedestrian is present
- ✓ The sign's internal lighting and the LED crossing lamp stay off



AT NIGHT – FULL LIGHT SIGNAL

When the system detects a pedestrian, it switches on:

- ✓ Amber LED flashers
- ✓ LED lamp lighting the pedestrian crossing
- ✓ The sign's internal lighting

Why a smart crossing

INTELLIGENT ACTIVATION

Detection by the video detector triggers a dynamic light pulse when pedestrians are present.

GREATER VISIBILITY

The internally lit sign and amber LED flashers make the crossing as visible to drivers as possible.

TARGETED LIGHTING

LED lighting draws attention to the marked crossing and its approach zones.

PROACTIVE SAFETY

Warns drivers in advance about high-risk zones, so they can react in time.