

SR-TICS



Thermal Intelligent Crossing System

The Thermal Intelligent Crossing System is a thermal technology based system that detects pedestrians at crosswalks by real time image processing, managing automatically the activation of a set of warnings through vertical signs and road studs to alert drivers in a safe and effective way.

The SR-TICS have a thermal camera that don't see sun glare responding only to the heat signature, detecting and giving you 24-hour detection of vehicles regardless of the amount of light available, reducing the risks of accidents in crosswalks.

KEY FEATURES

SYSTEM

- Sensor + camera in the same housing
- Accurate and editable zone positioning
- IP-addressability
- Reliable operation 24/7
- Effective detection algorithm
- Easy installation - above ground sensor
- Cost-effective solution
- Powered by solar or electric energy

THERMAL CAMERA

- 24-hour detection, at night and in the most difficult weather conditions
- Detection over long range and across different lanes
- No need for additional lighting
- Long-range night view - heat signatures of vehicles can be seen clearly from miles away
- Isn't blinded by direct sunlight and only respond to the heat signatures that detect
- Is immune to headlight glare
- See through shadows giving a much more reliable detection solution

THERMAL CAMERA SPECIFICATIONS

Resolution	160 x 120
Frame Rate	9 FPS
Sensor Type	Long-Wave Infrared (LWIR 8-14µm)
Video Streaming	RTSP
Video Compression	H.264, MPEG-4
Detection Distance	0-15m (depending on installation height)

ELECTRICAL CHARACTERISTICS

Power Supply	12 -42V AC/DC
Power Consumption	Average 6W (Peak 7W)

SR-TICS



TYPICAL INSTALLATION OF SR-TICS SYSTEM

The typical installation of a SR-TICS system consists of two types of elements, the detection elements and signaling/warning elements for drivers.

DETECTION ELEMENTS

Thermal Camera

- 1 x Thermal camera installed at minimum height of 5 meters

SIGNALING/WARNING ELEMENTS

Road Studs SR-45

- 6 x SR-45 with 4 red LED's and 4 white LED's (other colors available)

Vertical Signs

- 2 x Crosswalk signs with 2 x SR-02 on the top part and 6 x white LED's in each corner (other colors available)

ILLUSTRATION OF TYPICAL INSTALLATION

