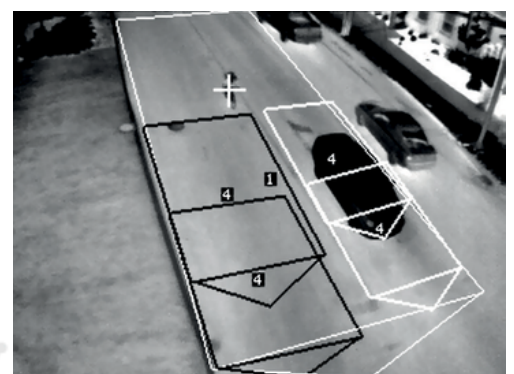
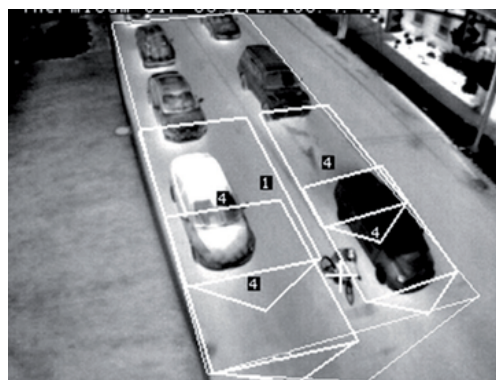




THERMICAM 2

ThermiCam 2 is the world's first fully integrated thermal sensor designed for the detection of vehicles, pedestrians, and bicycles in urban environments.

It requires no external light source, relying instead on the natural thermal energy emitted by road users to detect their presence—even at night, in adverse weather conditions, and over long distances. With a 640×480 pixel resolution, it ensures reliable and accurate 24/7 detection for enhanced traffic monitoring and safety.





Technical Specifications

Specification	Value
Detection	Vehicles, pedestrians, bicycles
Configurable zones	24 vehicle zones, 8 bicycle zones, 8 pedestrian zones, 6 traffic zones, 6 wrong-way zones
Configuration	Web-based (Wi-Fi, Ethernet, BPL – secured)
Video streaming	RTSP – H.264, MPEG-4, MJPEG
Thermal detection	Uncooled VOx microbolometer – LWIR 7–14 μm
Video resolution	QVGA (320×240) a 30 fps
Models and detection range	From 25 m to 120 m (depending on field of view)

Main Applications

Intelligent Traffic Signal Control

- Detects vehicles and bicycles approaching intersections;
- Adapts traffic signal phase durations in real time;
- Improves traffic flow and safety for vulnerable road users.

Traffic Data Collection and Statistics

- Anonymous monitoring of mobile devices via Wi-Fi;
- Calculation of travel times, delays, origins/destinations;
- Vehicle classification, measurement of volume, speed, occupancy, and travel time.

Advanced data analysis via Acyclica cloud platform

- Intuitive dashboard for historical and real-time analysis;
- Heat maps, movement counts, congestion monitoring;
- Decision support for urban and traffic planning.

Product Specifications

- Power Supply: 24–42 VAC / 24–48 VDC;
- Power Consumption: 10.5 W (average) / 15 W (peak);
- Outputs: 2 direct contacts + 4 via BPL2 EDGE interface;
- PoE: For configuration, data transfer, and streaming;
- Wi-Fi: IEEE 802.11 b/g/n for configuration and travel time monitoring;
- BPL (Powerline): 50 Mbps via TI BPL2 interface;
- Protection Rating: IP67;
- Environmental Resistance: –34 °C to +74 °C;
- Material: UV-resistant and impact-proof housing;
- Compliance: EMC 2014/30/EU, RoHS 2011/65/EU, LVD 2014/35/EU, RED 2014/53/EU, FCC Part 15 Class A.

Available Models

Models	Field of view (HFOV)	Detection Range
ThermiCam2 390	90° × 69°	1 – 25 m
ThermiCam2 345	45° × 35°	5 – 50 m
ThermiCam2 335	35° × 27°	15 – 75 m
ThermiCam2 325	25° × 19°	30 – 90 m
ThermiCam2 317	17° × 13°	45 – 120 m