

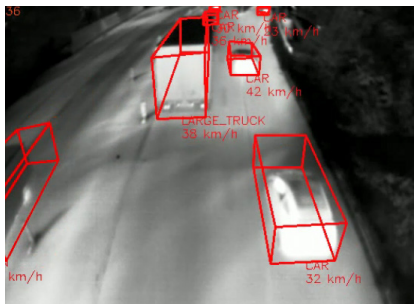


THERMICAM AI™

AI-Powered Thermal Traffic Sensor

Designed to reliably detect and classify road users, ThermiCam AI is an intelligent thermal imaging sensor for traffic monitoring in complex urban environments. Featuring AI algorithms built on 25+ years of traffic detection and best-in-class thermal imaging, ThermiCam AI delivers continuous vision and data collection for safer, more efficient cities. Capable of tracking multiple objects in any lighting or weather conditions; therefore, thermal is specifically used for safety-critical applications. The advanced edge-based AI technology effectively controls intersections and gathers detailed traffic data allowing you to make better city planning decisions.

DETECTION BASED ON AI
EFFECTIVE SIGNAL CONTROL
HIGH RESOLUTION DATA
TRAFFIC PREDICTION
WI-FI BASED TRAVEL TIME MONITORING
EASY-TO-INSTALL



UNMATCHED DETECTION AND CONTROL

Edge-based AI and 24/7 thermal detection offer advanced intersection control that outperforms other technologies

- Thermal imaging helps provide reliable detection in complete darkness, glaring sunlight, and challenging weather conditions
- Detect the position, speed, and heading of vehicles and vulnerable road users such as bicyclists and pedestrians
- Directly integrate with traffic controllers through accurate virtual loop configuration and dry contacts

FUTUREPROOF TRAFFIC INSIGHT

ThermiCam AI captures advanced and high-resolution traffic data for better-informed city planning decisions

- Collect vehicles and vulnerable road users and measure traffic volume, speed, and occupancy
- Gather valuable data, including vehicle trajectories throughout intersections
- Provides real-time integration over APIs for adaptive and predictive traffic systems
- Provides information about the Situational Awareness

COMPREHENSIVE REPORTING

Generate automated reports with Acyclica to identify bottlenecks

- Determine the turning movement count per vehicle class at intersections throughout the day
- Streamlined data visualization creates easy-to-read, compelling reasoning for city planning adjustments
- Measures travel and delay time on intersections*

*Only Wi-Fi version

For technical or sales support, please visit:
www.flir.com/about/general-inquiries

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SPECIFICATIONS

System Overview				
Functionalities	Conditional vehicle presence for each class Traffic data & flow monitoring Turning Movement Count Queue Occupancy Wrong way drivers PSH (Position,Speed & Heading) - optional API License VRU detection ETA (Estimated Time of Arrival)			
Services	FLIR VSO data - optional Acyclica license Wi-Fi Travel Time analytics - optional Acyclica license*			
Configuration	Local/remote web page setup via PoE , Wi-Fi* or BPL			
Imaging & Optical				
Type	Focal Plane Array (FPA) Uncooled VOx microbolometer long wave infrared (7 – 14 µm)			
Resolution	QVGA (320 x 240)			
Frame Rate	30 fps			
Compression	H.264, MPJEG, H.265			
Streaming Video	RTSP			
Product Types				
	Part Number (Wi-Fi)	Part Number (Non Wi-Fi)	Field of View	Detection Distance for Vehicle Presence
ThermiCam AI - 390	10-7730	10-7731	90°H x 69°V	0 - 60 m
ThermiCam AI - 345	10-7732	10-7733	45°H x 35°V	10 - 80 m
ThermiCam AI - 335	10-7734	10-7735	35°H x 27°V	20 - 100 m
ThermiCam AI - 325	10-7736	10-7737	25°H x 19°V	30 - 125 m
Mechanical				
Material	Aluminum housing with integrated polycarbonate sunshield			
Dimensions (incl. mounting bracket)	Vertically mounted: 45 cm x 16 cm x 12 cm Horizontally mounted: 41 cm x 18 cm x 12 cm			
Electrical				
Input power	24-42 VAC / 24-48 VDC			
Power consumption	Avg 10.5 W / Peak 15 W			
Communication				
Output contacts	1 N/O and 1 N/C dry contact direct 16 N/C dry contacts via TI BPL3 interface			
PoE	PoE mode A for configuration, video streaming and data communication			
BPL	80 Mbps Broadband over Powerline communication via TI BPL3 interface			
Wi-Fi	IEEE 802.11 type b,g,n. EIRP < 100mW*			
Environmental				
Shock & Vibration	NEMA TS2 specs			
Materials	All weatherproof UV resistant			
IP Rating	IP 67			
Temperature Range	-34°C to 74°C			
Regulatory				
FCC / EU Directives	FCC part 15 class A, EMC 2014/30/EU RoHS 2011/65/EU, LVD 2014/35/EU			

Specifications are subject to change without notice. For the most up-to-date specs, go to www.teledyneflir.com

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