



## Smart City Sensor TrafiOne

FLIR TrafiOne is an all-in-one sensor for traffic monitoring and dynamic traffic signal control. The FLIR TrafiOne uses thermal imaging and Wi-Fi technology to adapt traffic signals based on the presence detection of vehicles, bicycles, and pedestrians, even in total darkness or adverse weather. The sensor also generates high-resolution data for measuring travel times for different modes of transport and to improve traffic flows. TrafiOne also includes an HD video camera for additional visual support.

### THERMAL IMAGING SENSOR

Detects the presence of vehicles, bicyclists, and pedestrians in adverse weather and low light conditions.

### WI-FI TECHNOLOGY

Secure Wi-Fi communication allows for quick and easy configuration of detection zones.

### FLIR ITS-IQ

TrafiOne information can be accessed by cloud-based data analysis solution FLIR ITS-IQ.

## SPECIFICATION

System Overview		
Functionalities	Curbside and on-crossing pedestrian and bicycle presence detection Stopbar and advance vehicle and bicycle presence detection (optional license) Wi-Fi monitoring (optional license) Visual HD streaming video (optional license)	
Detection zones	8 vehicle presence zones 8 pedestrian presence zones	
Configuration	Web page via secure Wi-Fi or Ethernet	
Thermal Sensor		
Resolution	160 × 120 pixels	
Frame Rate	9 FPS	
Detector type	Focal Plane Array (FPA) uncooled VOx microbolometer LWIR sensor, 8–14 μm wavelength	
Streaming Video	RTSP	
Compression	H.264, MPEG-4	
Visual Sensor		
Resolution	1080 × 1920 pixel HD colour CMOS	
Frame rate	30 fps	
Lens HFOV	95°	
Streaming video	RTSP	
Compression	h.264, MPEG-4, MJPEG	
Housing		
Material	Aluminum housing with PC GF10 sunshield	
Bracket	PA GF30 mounting clamps and aluminum tube	
Power, Outputs, & Communication		
Input power	12–42 V AC/DC	
Power Consumption	Average 6 W / Peak 7 W	
Outputs	1 N/O and 1 N/C dry contacts direct 16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface	
Ethernet	10/100 MBps	
PoE	PoE A and PoE B	
Powerline Communication	Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface	
Wi-Fi	IEEE 802.11 type b, g, n EIRP <100 mW	
Environmental		
Shock & Vibration	NEMA TS2 specs	
Materials	All weatherproof UV resistant	
IR Rating	IP67	
Temperature Range	-40°C to 60°C (-40°F to 140°F)	
Regulatory		
FCC/EU Directives	EMC 2014/30/EU, RoHS 2011/65/EU	
Product-specific		
	TrafiOne 195	TrafiOne 156
Part number	10-7070	10-7075
HFOV	95°	56°
Detection distance (depending on installation height)	Stop-Bar Detection*: 0–15m (0–49.2ft) Pedestrian/bicycle presence: 0–12m (0–39ft)	Stop-Bar Detection*: 10–25m (33–82 ft) Pedestrian/bicycle presence: 10–20 m (33–65.5ft)
Installation height	3.5–6 m (11.4–19.6 ft)	5.5–8 m (18–26 ft)

\*Recommended for 2 lanes only



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