



DUAL-VISION CAMERA FOR INTERSECTION CONTROL AND SAFETY

FLIR TRAFISENSE DUAL

FLIR TrafiSense Dual combines best-in-class thermal and visual imaging technology with advanced video analytics to provide reliable vehicle and bicycle presence detection at signalized intersections, day and night. Thermal imaging lets traffic operators see in total darkness and inclement weather. The daylight camera provides additional visual verification of incidents, such as wrong-way drivers or animals crossing the roadway. In addition, FLIR's analytics capture accurate traffic data, making FLIR TrafiSense Dual ideal for traffic monitoring and real-time signal control in urban environments.

www.flir.com/Traffic



24/7 thermal performance

FLIR TrafiSense Dual offers 24/7 performance, regardless of weather conditions.

- Detects traffic day or night
- Won't get confused by sun glare, headlights, shadows, wet streets, snow or light fog
- Different lens options available for specific field of view needs



Reliable Intersection Control and Safety

FLIR TrafiSense Dual provides critical vehicle and bicycle presence detection and data.

- Detects vehicles and bicycles at the stop bar using up to 24 presence zones
- Provides vehicle and bicycle counting, traffic data collection and traffic flow monitoring
- Detects wrong-way drivers and animals entering the roadway



Visible-light camera for verification

The FLIR TrafiSense Dual's full HD visible-light camera provides high-quality images for control room operators.

- Full HD (1920 x 1080) daylight/low light camera
- Provides visual verification and traffic monitoring
- Equipped with an optical zoom and e-zoom

TECHNICAL SPECIFICATIONS

Model	Part #	Field of View	
		Thermal	Visual
TrafiSense Dual 690	10-7570	90°H / 69°V	30-93°H
TrafiSense Dual 669	10-7572	69°H / 56°V	30-93°H
TrafiSense Dual 645	10-7574	45°H / 37°V	5-54°H
TrafiSense Dual 632	10-7576	32°H / 26°V	5-54°H
TrafiSense Dual 625	10-7578	25°H / 20°V	5-54°H

Thermal part

Detector type	Focal Plane Array (FPA), uncooled Vanadium Oxide Microbolometer
Spectral range	Long wave infrared, 7.5-13.5µm
Resolution	640 x 480 (VGA)
Frame Rate	30Hz
Compression	MJPEG, MPEG-4, H.264
Traffic Detection functionalities (# detection zones)	Vehicle presence detection & counting (24) Bicycle presence detection & counting (8) Traffic data collection & traffic flow monitoring (6) Wrong way driver detection (6, requires extra license)

Visual part

Resolution	1920 x 1080 (Full-HD) or 1280 x 720 (HD)
Frame rate	25Hz (configurable from 1FPS to 25FPS)
Compression	MJPEG, MPEG-4, H.264
Optical zoom	3x or 10x (Horizontal field of view 30-93° or 5°-54°)

Housing

Material	Aluminum, powder coated, black
Dimensions (LxWxH)	About 8.65in x 6.89in x 3.15in or 22cm x 17.5cm x 8cm
Mass	About 5lbs or 2.25kg (excluding mounting bracket)
Sunshield	Integrated & adjustable
Mounting Bracket	Optional, housing is Pelco Astro bracket ready

Communications

Broadband over Power Line (BPL)	3 wires between sensor and interface. Note: TI BPL2 EDGE interface required
Power over Ethernet (PoE)	4 wires between sensor and interface. Note: FLIR ITS PoE to Power+ETH converter required
Wi-Fi	For system configuration. Note: Wi-Fi can be disabled

Power

Supply	12-42VAC, 12-48VDC (when connected as PoE, use 48VDC)
Consumption	14W nominal at 24VDC (up to 25W with heater on)

Environmental

Shock & Vibration	NEMA TS2 specs
Materials	All weatherproof (UV-resistant)
Protection Grades	Housing = IP68, Connectors = IP67
Temperature Range	-29°F to +165°F or -34°C to +74°C (ambient temperature)
FCC	FCC part 15 Class A

Regulatory

EU Directives	Electromagnetic Compatibility – 2014/30/EU Low Voltage – 2014/35/EU Radio Equipment – 2014/53/EU Restriction of Hazardous Substances – 2011/65/EU
---------------	--

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

CORPORATE HEADQUARTERS
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
PH: +1 877.773.3547

FLIR ITS
Hospitaalweg 1B
B-8510 Marke
Belgium
PH: +32 (0)56 37 22 00

www.flir.com
NASDAQ: FLIR

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2018 FLIR Systems, Inc. All rights reserved. (05/18)

18-1070-ITS



The World's Sixth Sense®