FLIR FC-T2 Series

Thermal Imaging Sensors for Traffic Monitoring

FLIR FC-T2 Sensors deliver superior accuracy and reliability for any traffic monitoring application. Using FLIR's advanced thermal imaging sensors, the FC-T2 can detect vehicles in a wider variety of conditions than traditional color-only sensors. By detecting the heat of all objects in the scene, the FC-T2 Series operates in broad daylight or total darkness, poor weather and even light fog.

Because they are not hindered by reflections from sun glare, shadows, or headlights on wet pavement, FLIR's thermal traffic solutions deliver more reliable information with fewer false counts. Whatever road you're watching, see everything more clearly with the FLIR FC-T2.

- VEHICLE DETECTION AT INTERSECTIONS
- ROAD SIDE MONITORING
- MONITORING TRAFFIC IN TUNNELS
- HIGHWAY TRAFFIC MANAGEMENT

HIGH IMAGE QUALITY

The FLIR FC-T2 Series are equipped with an uncooled microbolometer detector that produces high quality thermal images on which the smallest of

DIFFERENT LENS OPTIONS

FLIR Systems offers the FLIR FC T-Series with different lens options. They are available with a 13mm or 19mm lens.

EASY TO INSTALL

FLIR FC-T2 Series thermal imaging sensors can be easily installed and integrated into existing infrastructure, adding 24/7 detection and without major civil works projects. Multiple video output connector options (BNC and Connector-less) also make installation simple and fast.

DESIGNED FOR USE IN HARSH ENVIRONMENTS

The FC-T2 Series are extremely rugged systems, built to rigorous IP66 standards and protected from dust and water ingress. Their broad operational temperature range (-50°C to +75°C) makes them ideal for any climate.

VIDEO ANALYTICS

The FLIR FC-T2 Series works perfectly together with video analytics, such as FLIR's VIP 3D Detection Boards. Thermal images are often used for vehicle presence detection at signalized intersections, and for 24/7 traffic monitoring





Normal vision



Thermal vision





FC-T2 Series: version specific specifications

Sensor resolution	320 x 240	640 x 480
Name/Focal length/ Field of view	FC-334 T2: 13 mm lens – FOV : 44° (H) x 36° (V) FC-332 T2: 19 mm lens – FOV : 32° (H) x 26° (V) FC-324 T2: 13 mm lens – FOV : 24° (H) x 18° (V) FC-317 T2: 19 mm lens – FOV : 17° (H) x 13° (V)	FC-644 T2: 13 mm lens – FOV : 44° (H) x 36° (V) FC-632 T2: 19 mm lens – FOV : 32° (H) x 26° (V)

Imaging Specifications

System Overview	FLIR FC-T2 Series
Detector type	Focal Plane Array (FPA), uncooled Vanadium Oxide (Vox) microbolometer
Spectral range	7.5 to 13.5µm
Thermal sensitivity	<50 mK f/1.0
Image frequency	NTSC: 30Hz
Focus	Focus free, athermal lens
Image processing	Automatic Gain Control (AGC), Digital Detail Enhancement (DDE)
System features	
Automatic heater	Clears up to 4mm of ice from windows Automatic deicing, tested according to MIL-STD-810F Method 521.1
Image presentation	
Video output	NTSC, analog
Image Uniformity Optimization	Automatic Flat Field Correction (FFC)
Power*	
Requirements	90-240VAC, single phase 50-60Hz
Consumption	5.5 W nominal at 110 VAC 23 W peak with heaters
Environmental specifications	
Operating	-50°C to +75°C (Cold start: -40°C to +70°C)
temperature range	-58°F to +167°F (Cold start: -40°F to +158°F)
Storage temperature range	-55°C to +85°C (-67°F to +185°F)
Encapsulation	IP66 + IP 67 (IEC 60529)
Shock	Mil-Std-810F
Vibration	IEC 60068-2-27
Physical characteristics	
Sensor Weight	1.8 kg (3.97 lbs.) without sunshield 2.2 kg (4.85 lbs.) with sun shield
Sensor Size (L x W x H)	259 mm x 114 mm x 106 mm without sunshield 10.2 in. x 4.49 in. x 4.17 in. without sunshield 282 mm x 129 mm x 115 mm with sun shield 11.1 in. x 5.08 in. x 4.53 in. with sun shield
Shipping weight (sensor + packaging)	2.8 kg (6.18 lbs.)
Shipping size (sensor + packaging) (L x W x H)	366 mm x 188 mm x 178 mm 14.41 in. x 7.40 in. x 7.01 in.
Approvals	
EN55022:2010, Class B	
EN 61000-3-3: 2008	
EN 61000-3-2: 2006+A1: 2009 & A2 2009	
EN55024:2010	
EN51030-4: 2011	
FCC Part 15, Subpart B, Class A	
IP 66 + IP 67 (IEC 60529)	
IEC 60068-2-27	
EN60950-1	
EN60950-22	
LINUUGJU-ZZ	
Standard package	

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