



## THERMAL IMAGING CAMERAS FOR TRAFFIC MONITORING

# FLIR ITS-SERIES

FLIR ITS-Series sensors deliver superior image accuracy and reliability for traffic monitoring applications. ITS-Series thermal imaging sensors can monitor vehicles in a wider variety of conditions than traditional visible-light sensors. By detecting the heat of all objects in the scene, the FLIR ITS-Series operates in broad daylight or total darkness, poor weather and even light fog. Combined with FLIR video analytics boards, the FLIR ITS-Series makes a great solution for Automatic Incident Detection (AID).

[www.flir.com/its](http://www.flir.com/its)



### HIGH-QUALITY THERMAL IMAGING

Reliable FLIR thermal sensors capture key details.

- Detect and monitor traffic in complete darkness and blinding light
- See through smoke, haze, and light fog
- High-resolution 640 × 512 thermal sensor
- Six unique lens options for varying range performance



### EASY TO INSTALL

FLIR ITS-Series cameras quickly install onto existing infrastructure.

- Simple plug-and-play replacement for existing daylight cameras
- Works in tandem with FLIR video analytics boards
- Hybrid IP and analog video out



### DESIGNED FOR HARSH ENVIRONMENTS

The ITS-Series is extremely rugged and designed to withstand any climate.

- IP66 & IP67-rated
- Operates in extreme temperatures (-50°C to 70°C)
- Protected against dust and water ingress

## SPECIFICATIONS

### Thermal Sensor & Optics

Detector Type	Focal Plane Array (FPA) Uncooled VOx microbolometer
Spectral Range	7.5 to 13.5 $\mu$ m
Resolution	640 x 512
Field of View	90° x 69° 69° x 56° 44° x 36° 32° x 26° 25° x 19° 17° x 14°
Image Processing	Automatic Gain Control (AGC) Digital Detail Enhancement (DDE)

### Image Presentation

Video over Ethernet	Two independent channels of H.264 or M-JPEG
Analog Video Output	Configurable NTSC and PAL

### Power Consumption

Heater Off	POE (802.3af), POE+ (802.3at), 12 VDC, 24 VDC: < 5.5 W 24 VAC (VA): < 8 W
Heater On (@ 100%)	POE (802.3af): N/A POE+ (802.3at), 12 VDC, 24 VDC: < 25 W 24 VAC (VA): < 32 W

### General

IP Rating	IP66 & IP67
Automatic Heater	Automatic deicing clears windows
Operating Temperature Range	-50°C to 70°C (continuous operation) -40°C to 70°C (cold start)
Storage Temperature Rang	-50°C to 85°C
Humidity	0-95% relative humidity
Shock	MIL-STD-840G "transportation"
Vibration	IEC 60068-2-27

### Compliance

Approvals	CE: EN55022 Class A; FCC 47 CFR Part 15, Subpart B, Class A (within CISPR 22:2008 Class A limits)
Surge Immunity on AC Power Lines	EN 55024: 2010 and 55022: 2010 to 4.0kV on AC aux power lines; EN 50130-4:2011; IEC 62599-2:2010
Surge Immunity of Signal Lines	EN 55024: 2010 and 55022: 2010 to 4.0kV

Specifications are subject to change without notice. For the most up-to-date specs, go to [www.flir.com](http://www.flir.com)

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