



## THERMAL CAMERA FOR AUTOMATIC INCIDENT DETECTION

# ITS-Series AID



ITS-Series AID cameras combine best-in-class thermal imaging technology with advanced video analytics to provide a complete solution for automatic incident detection, data collection, and early fire detection. FLIR traffic video analytics have proven their effectiveness worldwide along highways and in tunnels and are now combined with the power of thermal imaging to allow traffic operators to see clearly in total darkness, in bad weather, and over long distances.

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



### 24/7 THERMAL IMAGING

The FLIR ITS-Series AID offers long-range performance, regardless of weather conditions or time of day.

- Thermal cameras detect heat energy given off by everything in their field of view
- By ignoring visible light, thermal cameras see through sun glare, darkness, headlights, wet streets, snow, smoke, and light fog
- Thermal sensor is protected against continuous exposure to direct sunlight



### AUTOMATIC INCIDENT DETECTION

The ITS-Series AID provides critical information about traffic incidents and detects fires within seconds of ignition.

- Measures the temperature of all objects and surfaces within view, even through smoke
- Detects early-stage fires more quickly than traditional fire detection systems
- Intelligent fire detection algorithm considers multiple parameters—including size, dynamics, growth rate, and fire movement
- No contact with flames or hot gasses required



### VERSATILE LENS OPTIONS

Six different lenses offer varying range performance for any traffic environment.

- Lenses ranging from 13 mm (90° × 69°) to 35 mm (17° × 14°)
- Narrow FOV lenses detect traffic incidents over longer distances
- All lenses and cameras are designed to withstand harsh climates
- IP66 and IP67-rated

## SPECIFICATIONS

| Thermal Sensor & Optics          |  |
|----------------------------------|--|
| Detector Type                    | Focal Plane Array (FPA)<br>Uncooled VOx microbolometer   |
| Spectral Range                   | 7.5 to 13.5 $\mu\text{m}$  |
| Resolution                       | 640 x 512  |
| Field of View                    | 90° x 69°<br>69° x 56°<br>44° x 36°<br>32° x 26°<br>25° x 19°<br>17° x 14°                           |
| Image Processing                 | Automatic Gain Control (AGC)<br>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:<br>< 5.5 W<br>24 VAC (VA): < 8 W                      |
| Heater On (@ 100%)               | POE (802.3af): N/A<br>POE+ (802.3at), 12 VDC, 24 VDC: < 25 W<br>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)<br>-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,<br>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<br>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)

**CORPORATE  
HEADQUARTERS**  
FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
PH: +1 866.477.3687

**FLIR ITS**  
Hospitaalweg 1B  
B-8510 Marke  
Belgium  
PH: +32.0.56.37.22.00

[www.flir.com](http://www.flir.com)  
NASDAQ: FLIR

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