FLIR®

ITS-SERIES DUAL AID 316L

FLIR ITS-Series Dual AID cameras combine best-in-class thermal and visual imaging technology with advanced video analytics to provide a complete solution for automatic incident detection, data collection and early fire detection. FLIR's traffic video analytics have proven their effectiveness along highways and in tunnels worldwide. Now combined with the power of thermal imaging, they allow traffic operators to see clearly in total darkness, in bad weather and over a long range.
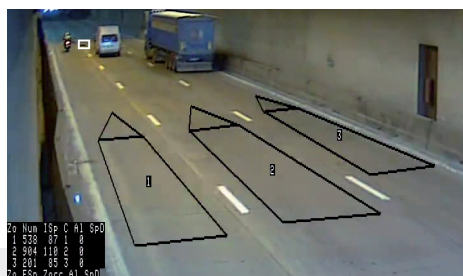
www.flir.com/products/its-series-dual-aid

24/7 THERMAL IMAGING

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

- Thermal camera detects the heat energy given off by everything in their field of view
- By ignoring visible light, the thermal camera sees through sun glare, darkness, headlights, shadows, wet streets, snow, and light fog
- The thermal camera isn't damaged when looking continuously into direct sun light

INCLUDES A VISUAL CAMERA

A visible-light camera enables real-time visual incident verification and collection of forensic evidence after traffic incidents.

- Daylight/low light camera
- Motorized optical zoom
- Simultaneous visible and thermal output

AUTOMATIC INCIDENT DETECTION

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

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

SPECIFICATIONS

Overview	
Detector Type	Focal Plane Array (FPA), uncooled Vanadium Oxide Microbolometer
Dimensions	Housing only: 185 x 102.24 x 409 mm With bracket: 346 x 256 x 409 mm
Housing material	Stainless steel 316L
Mounting	Wall, pole, ceiling mount
Spectral Range	7.5 to 13.5 µm
Connectivity	RJ45 connector Optional fiber optics on connector (MM/SM) plus 24Vdc power connector 2 optional digital outputs

Analytics	
Automatic Incident Detection	**Traffic events:** Stopped vehicle, speed drop, levels of service, overspeed, wrong-way drivers, traffic congestion, underspeed **Non-traffic events:** Smoke in tunnel, pedestrian, fallen object **Technical alarms:** Image quality, camera tampering
Traffic Data Collection	**Traffic flow data per lane:** Traffic flow speed, zone occupancy **Integrated vehicle traffic data:** Average speed per vehicle class per lane (headway, gap time per length, class per lane), occupancy **Individual vehicle traffic data:** Speed, gap time, headway, vehicle classification
Fire Detection	Early fire detection in tunnels

Connections & Communications	
Interface	10/100 Mbps Ethernet (RJ-45) or Direct fiber connector (MM, SM)
Supported Protocols	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMPv1/2/3, QoS, ONVIF, 802.1X
Video Over Ethernet	Two independent channels for each camera (4 total) of streaming H.264 or M-JPEG
API	ONVIF Profile S

Electrical & Mechanical	
Consumption	12W heater off, 21W heater on
Weight	5kg
Connectors	IP67 network and power connector

Environmental	
Ingress Protection	IP66 / IP67
Operating temperature Range (with sunshield)	-30°C to +75°C (-22°F to 167°F) - Nema TS-2
Relative Humidity	0% to 100%, no condensation

Imaging & Optical	
Image Frequency	NTSC: 30 Hz PAL: 25 Hz
Image Processing	Automatic Gain Control (AGC), Digital Detail Enhancement (DDE)
Image Sensor	1/3" Sony CMOS sensor
Streaming Resolution	Visual: up to 1920 x 1080 @ 30 Hz Thermal: up to 640 x 480 @ 30 Hz
Resolution - Visual	Max: 1920 x 1080

Storage	
Storage options	Micro SD card, 32 GB, NAS
Local recording	Continuous, scheduled, alarm

Power	
Power Options	Standard PoE(+) autodetecting, 24Vac/dc

Thermal Imaging	
Focal Length	9/13/19/25/35mm
Native Resolution	640 x 512

Visible Camera	
Optical Zoom - Visible	10x motorized optical zoom
Focal length	4.9 -> 49mm

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

FLIR® | The World's Sixth Sense®