INTELLIGENT TRANSPORTATION SOLUTIONS

24/7 Detection and Monitoring Solutions for Traffic and Public Transportation Applications
Enhancing Safety and Efficiency for Road Traffic and Public Transportation

Traffic managers all over the world are using technology from FLIR Intelligent Transportation Systems to keep roadways flowing safely and smoothly. Detection and monitoring solutions from FLIR help traffic and public transportation agencies manage traffic flows efficiently and ensure safety. Based on advanced technology proven for more than 25 years, FLIR hardware and software systems help you monitor entrees and pedestrians in urban environments, detect incidents on highways and in tunnels, collect traffic data, and ensure safety on our public railways.

Urban Intersections
FLIR traffic sensors enable officials to control traffic signals at intersections to allow urban traffic to move smoothly. In addition, they help optimize traffic flow for pedestrian and bicycle traffic, improving their safety in busy traffic environments. When working in traffic flows in real time, FLIR sensors also collect valuable traffic data to help traffic engineers examine traffic patterns and facilities.

Highways, Tunnels and Bridges
FLIR automatic incident detection solutions have saved lives in tunnels and on highways and bridges by detecting smoke, fire, vehicle incidents, and other traffic events. Early detection of road irregularities enables first responders to intervene quickly and avoid secondary accidents.

Rail Tracks, Platforms and On-Board
FLIR thermal imaging cameras prevent serious accidents and infrastructure damage by detecting vehicles blocking level crossings and people entering metro tunnels or falling from platforms onto tracks. FLIR technology provides traffic and railway operations in real time and assists with evacuation and other circumstances. Thermal sensors can also identify fires and assist with evacuation of passengers and personnel.

Detection & Monitoring Solutions for Traffic and Public Transportation Applications
By combining video and thermal cameras with intelligent video analytics, radars, and V2X communication technology with traffic management and data analytics software, FLIR ITS has the field-proven solutions you need to keep all transport modes safe and running at peak efficiency.

Real-time Analysis
Real-time analysis of video or thermal camera images allows for more efficient traffic management on tunnels, in highways, and public transit areas. Traffic lights can be adapted in real-time, according to current traffic flows. When incidents occur, early detection can enable fast intervention by rescue teams, preventing secondary accidents.

Cost Effective
Video detection systems for monitoring traffic streams are extremely cost effective. Cameras can be easily installed on existing infrastructure, such as mast arms, luminaires, or existing poles. FLIR ITS technology can also identify fires and assist with evacuation of passengers and personnel.

Efficient and Reliable
Video detection and monitoring systems from FLIR ITS are used around the world. Traffic managers appreciate their high incident detection rates and speed. This results in a low Mean Time to Detect (MTTD) and a low False Alarm Frequency (FAF).

Proven Technology
More than 250,000 FLIR ITS video detectors are operational in over 80 countries worldwide. FLIR ITS has Automatic Incident Detection (AID) installations in more than 1500 tunnels, and FLIR ITS solutions are being used for traffic light management at more than 50,000 intersections worldwide.
THERMAL IMAGING FOR TRAFFIC APPLICATIONS

VITAL THERMAL

VITAL THERMAL

VITAL THERMAL

VITAL THERMAL

ATTENTION

Detect & analyze (integrated)

ANALYZE

Manage VMS Panels

Tunnel access

Traffic lights

Sun Glare

Sun Glare

Glare from the sun blinds conventional video cameras, making it difficult to see vehicles, people, and animals. Thermal sensors can see the sun glare and only respond to the heat signatures they detect.

Headlights

Headlights are confusing to video cameras, making accurate observation of highway traffic at night challenging. Thermal sensors, however, are immune to the sunlight glare, no matter how bright.

See into Shadows

Video cameras can miss pedestrians, cyclists, animals, and cars obscured by shadows or at night, where it is dark. However, thermal sensors see heat, so they can see in shadows or darkness, providing a more reliable detection solution.

Long-Range Night Viewing

At night, a highway looks like an indistinct row of lights to a video camera, making meaningful data collection and incident assessment almost impossible. But thermal cameras can see the full spectrum of light, from low abundance to high saturation, revealing missing data that are invisible.

Measure Temperature

Thermal cameras can detect the temperature of any object in its field of view. This unique capability allows detection of fires at their early stages over the full detection range.

See Through Smoke

Thermal cameras can penetrate smoke and, as such, provide a better view in cases of fire compared with visual cameras. This enhanced visibility can help guide emergency personnel to locate people inside the tunnels and take lives in critical situations.

How Video Analytics Works

An installed video or thermal imaging camera sends an input signal to a detection unit, whether onboard the camera or integrated in a standard 19-inch rack. The output of the video image processing module and set, detection zones are superimposed onto the video image.

When an object enters a designated zone, algorithmic parameters trigger different types of traffic data. This includes presence and contextual related data, information for statistical processing, and data for pre- and post-incident analysis. Compressed images and analysis are transmitted to the technical control room. The system is installed so that the video image processor triggers a third-party system, such as a traffic light, electronic traffic sign or any other ITS device. When an alarm is generated, the traffic manager in the control room will receive a visual image of the scene, so that he or she can take appropriate actions.

Pinpoint analytics for easy vehicle detection and recognition. Precise detection zones can be set using analytics.
SAFE AND EFFICIENT JOURNEYS

From thermal video detection and traffic light control to high resolution analytics, FLIR ITS offers an array of tools that better ensure safe and efficient movement of vehicles, bicyclists, and pedestrians in urban settings. Because our sensors operate above ground, they also are more affordable than conventional in-ground detection technology.

Vehicle Detection
FLIR video, thermal and radar sensors are highly reliable, accurate and non-intrusive detection technologies specifically developed for signal control and traffic management. By detecting vehicles so efficiently, FLIR sensors enable smart intersection control for greater safety, just like in countless cities that have already implemented FLIR technology at intersections:

- Improve city traffic flows
- Reduce unnecessary delays
- Enhance safety for all road users

FLIR sensors allow you to include pedestrian movement into traffic control strategies and make them more visible to traffic. With dynamic traffic light control and warning sign activation, operators can make intersections and pedestrian crossings safer, while also preventing unnecessary delays to both pedestrians and motorists.

- Replace inefficient push buttons
- Enhance pedestrian safety
- Reduce unnecessary delays

Bicycle Detection
By looking at heat signatures, thermal cameras can make a reliable distinction between bicyclists and vehicles. Traffic signals can be adapted to give bicyclists green time ahead of vehicle traffic for greater visibility. Bicycle detection will provide an extended clearance time for bicyclists, allowing them more time to cross an intersection without causing unnecessary delay.

- Above-ground thermal sensors reliably detect bicyclists in mixed traffic environments
- Trigger bicycle warning signals dynamically
- Adapt traffic signals to enhance bicycle safety

High resolution data analytics
FLIR thermal and visual sensors provide rich traffic signal control data by detecting the presence of vehicles, bicyclists and pedestrians at intersections. This generates valuable traffic data, including counts, occupancy, vehicle type and origin, which can be used to improve both urban and highway traffic management. As a result, cities with FLIR implementations can now track real-time traffic patterns and vehicle and pedestrian movements at intersections. FLIR sensors measure real-time flows, delays, points of origin and destinations. FLIR integrates both presence data and traffic flow data into a single source in the cloud, resulting in high-resolution, high-quality intersection data.

- Capture, store and fuse valuable traffic data
- Measure intersection performance
- Real-time congestion mapping
- Better insights, better decisions

Pedestrian safety and mobility
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FLIR DETECTORS AND SENSORS FOR TRAFFIC SIGNAL CONTROL

**TrafiCam**

TrafiCam, also known as a Vehicle Presence Sensor, captures video and vehicle presence information. This device allows you to control traffic lights dynamically based on vehicle presence. The TrafiCam series includes the TrafiCam vehicle presence sensor for standalone use and the TrafiCam x-stream vehicle presence sensor and data collector with video streaming.

**TrafiOne**

TrafiOne is an all-round sensor that tracks waiting and crossing pedestrians and bicyclists in urban environments. It uses thermal imaging technology to reliably detect in all weather conditions and even in total darkness. The integrated Wi-Fi tracking technology provides traffic engineers with high-resolution data on vehicles, bicycles, and pedestrians at intersections.

**TrafiSense2 V2X/ThermiCam2 V2X**

Intelligent Thermal Traffic Sensor with V2X

TrafiSense2 V2X/ThermiCam2 V2X is an intelligent thermal sensor capable of detecting vehicles, bicyclists, and pedestrians for dynamic traffic signal control and data collection. It uses thermal imaging technology to provide 24/7 traffic monitoring and can detect road users at night, through glare, and in harsh weather conditions.

**ThermiCam2/TrafiSense2**

Integrated Thermal Traffic Detector

ThermiCam2/TrafiSense2 is an intelligent thermal sensor capable of detecting vehicles, bicyclists, and pedestrians for dynamic traffic signal control and data collection. It uses thermal imaging technology to provide 24/7 traffic monitoring and can detect road users at night, through glare, and in harsh weather conditions.

**TrafiRadar**

Video Sensor & Radar Combination

TrafiRadar is a combination of a video sensor and a radar, providing information on the location and speed of vehicles approaching or waiting at an intersection. It warns the traffic light controller whenever a vehicle is present in the dilemma zone, either extending green time or the all-red lights in order to improve overall safety of regulated intersections and ensure that better decisions are made to control the traffic lights in a more optimal way.

**Acyclica by FLIR**

Smart City Platform

Acyclica provides the information and insight necessary to understand congestion. It turns mountains of data into actionable information to help agencies understand travel times, traffic patterns, and congestion. From point-and-click origin-destination analysis to real-time congestion mapping, Acyclica helps agencies understand how people are moving. A range of automated reports, powerful user interface, and comprehensive APIs ensure that data is where you need it when you need it.
FASTER RESPONSE TIME, RELIABLE DETECTION

The ability to identify and respond quickly to incidents on roadways and in tunnels is an essential component of any effective traffic management system. FLIR traffic cameras and sensors can reliably detect incidents— including collisions, stopped vehicles, and wrong-way drivers—in challenging lighting and weather conditions. FLIR imagers can also monitor differing levels of traffic flows, and even detect a fire in a tunnel long before traditional sensors even activate.

Highway Monitoring
FLIR thermal imaging cameras leave no盲点 on our highways. Because they aren’t vulnerable to night conditions, excessive glare, or high contrast scenes (shadows), they offer a truly 24/7 solution for highway operators.

• Monitor traffic 24/7
• See your traffic accurately, day and night
• Enjoy a clear view in all weather conditions

Automatic Incident Detection
Effective incident management depends entirely on fast incident detection and verification. FLIR detection systems allow you to detect incidents quicker, saving many hours, queues, time-making vehicles, and other accidents or pedestrians in a matter of seconds, so you can prevent secondary accidents from happening.

• Detect in a matter of seconds
• Prevent secondary accidents
• See any traffic irregularity instantly

Data Collection and Flow Monitoring
FLIR cameras and sensors keep highways safe by accurately monitoring traffic flows. FLIR solutions can provide crucial information to operators between normal traffic flows, congested areas, and other incidents. Included are queue monitoring during road work and travel time calculations based on traffic flow.

• Collect valuable traffic data
• Monitor queues
• Ensure safety during road works

Fire Detection in Tunnels
FLIR thermal imaging cameras allow operators to detect fires in their early stages. In case of a fire, the thermal cameras enhance the ability of the operators by seeing through smoke and detecting hot spots.

• Detect incidents and fires in an early stage
• Monitor tunnel traffic
• See through smoke
FLIR DETECTORS AND SENSORS FOR ROADS AND TUNNELS

ITS-Series Dual AID

Intelligent Dual-Vision Automatic Incident Detection

The FLIR ITS-Series Dual AID camera combines 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 traffic video analytics have proven their effectiveness worldwide along highways and in tunnels and can now be combined with the power of thermal imaging, which allows traffic operators to see clearly in total darkness, in bad weather, and over a long range.

FLUX Traffic Management System

FLUX is an intelligent software platform for use with a FLIR video detection system. FLUX collects traffic data, analytic and video images generated by the video detectors. FLUX also offers video management capacity and can control network video recorders, video walls, mobile and fixed cameras.

FLIR Cameleon ITS Command & Control Software

Cameleon ITS is a central software platform for transportation monitoring and management that allows for the control of ITS-specific devices, including cameras, DMS signs, detector stations, gates, signal heads and incident detection.

FLIR United VMS Network Video Management System

FLIR United VMS is a reliable, enterprise-level software solution for video surveillance, supporting an unlimited number of cameras over IP networks. United VMS features enhanced cybersecurity, edge device integration, and global administration.

VIP-HD Automatic Detection Boards

FLIR integrated detection boards provide an automatic incident detection, data collection, recording of pre- and post-incident image sequences, and access to video in one system. VIP boards can be combined with VIP-HD boards to provide a complete solution for automatic incident detection. VIP boards can be combined with VIP-HD boards to provide a complete solution for automatic incident detection.

FLIR TrafiBot2 Automatic Incident Detection

The FLIR TrafiBot2 is a compact, rugged camera solution for automatic incident detection. Combining FLIR visual imaging with advanced video analytics, TrafiBot2 delivers an advanced processing system that enhances early detection, information for tunnels, bridges, and highways, seeing vehicles and objects outside of normal range, existing traffic tolls, and incident location.

ITS-Series AID "Intelligent - Automatic Incident Detection"

The FLIR ITS-Series AID camera provides critical traffic information, supporting traffic operators, tracking each vehicle on the roadway, providing an accurate traffic volume, traffic flow data and much more. The FLIR ITS-Series AID cameras continuously measure the temperature of any object in its field of view. This process allows the camera to become the heart of the ITS, detecting early stages of the full detection range, even through tunnels.

ThermiBot2 Intelligent Thermal Imaging Camera

ThermiBot2 AID cameras combine best-in-class thermal imaging technology with advanced video analytics to provide a complete solution for automatic incident detection and data collection. Traffic video analytics from FLIR provide powerful traffic data, with the addition of thermal, allowing traffic operators to view an incident’s location by day, in bad weather, and over a long range.

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PUBLIC TRANSPORTATION SAFETY

FLIR ITS is playing a vital role in helping public transportation systems operate safely. Our cameras can detect activity around platforms and tracks, monitor the seat occupancy and passengers in buses and trains, and even detect onboard fires—all in an effort to reduce the risk of accidents and improve efficiency.

Trackside Monitoring
FLIR thermal imaging cameras can detect people on metro, tram or railway tracks. Whether a person just fell from the platform or is deliberately walking on the tracks, FLIR systems ensure 24/7 detection on a tunnel or a platform, regardless of the surrounding environments.

- Detect people on tracks
- Prevent damage to infrastructure
- Enhance safety

Vehicle Detection at Railway Crossings
FLIR thermal imaging cameras can prevent collisions between trains and vehicles at level crossings by detecting when a vehicle stops on the tracks. In this way, train and tram operators can be warned in advance.

- Detect vehicles on level crossings
- Prevent damage to infrastructure
- Enhance railway safety

Onboard Fire Detection
Intelligent sensors from FLIR ITS provide advanced, non-contact fire detection on passenger and cargo trains. They generate both thermal and HD color video feeds that function as onboard passenger safety monitoring systems.

- Advanced dynamic fire detection
- Discrete on-board surveillance

Onboard Monitoring
In addition to safety, FLIR ITS imagers can assist operators in determining seat occupancy and maximum capacity on passenger trains.

- Seat occupancy
- Maximum capacity
FLIR ITS-Series
Thermal Imaging Traffic Cameras

The FLIR ITS-Series provides effective, reliable traffic detection and monitoring in total darkness and in harsh weather conditions. It can be integrated with a variety of third party video analytics for enhanced performance. The camera includes dual video out—hybrid IP video out and a design that meets weather resistant, IP66 requirements.

D-Series ITS
Thermal Camera with Precision Dome Enclosure

Combined with FLIR video detection analytics, the FLIR D-Series ITS multi-sensor traffic dome camera functions as an advanced incident detection and data collection system. The FLIR D-Series ITS is a perfect replacement for day/night dome cameras, for clear 24/7 imaging in a discrete enclosure.

PT-Series HD ITS
Multi-Sensor Pan-Tilt Traffic Monitoring Camera

Combined with FLIR video detection analytics, the FLIR PT-Series HD ITS provides precise pan/tilt control, while providing fully programmable scan patterns. Enabled for control and operation over digital and serial networks, the PT-Series ITS thermal cameras are available in high-resolution 640 x 512 formats, which provide up to sixteen times the image clarity and long range threat detection than lower resolution thermal cameras. The multi-sensor configuration includes a day/night 36X zoom color HD camera.

FLIR ITS-Series Rail
Rail Monitoring Thermal Imager

The FLIR ITS-Series Rail is a cost effective solution that can assist rail authorities in detecting passengers and vehicles that designates around train tracks. The FLIR ITS-Series Rail can detect trains by detecting unattended objects within its field of view, which helps it to detect unattended objects at their earliest stages.

FLIR RSX-F
Thermal Sensor for Rolling Stock

The FLIR RSX-F is an intelligent sensor that provides advanced, non-contact fire detection on passenger and cargo trains. Combining a thermal imager, HD camera and advanced analytics, the RSX-F is designed to detect a fire or heating signature of train passengers to determine seat occupancy. The sensor provides operations to optimize passenger flows.

FLIR SENSORS AND CAMERAS FOR PUBLIC TRANSPORT SAFETY APPLICATIONS

FLIR THERMAL IMAGING CAMERAS
LEARNING ABOUT YOUR TRAFFIC SOLUTION

FLIR ITS has options for you to learn all about your traffic solutions. Whether you have chosen the solution you feel is right for your needs, or if you need help determining a solution, FLIR ITS is ready to help.

ITS Training

The FLIR Intelligent Transportation Systems product portfolio and the ITS market in general are constantly changing. That’s why FLIR Trafcon Academy offers you a wide range of trainings to keep you up-to-date with the latest state-of-the-art technology.

- Flexible training schedules and classes
- In-Person Training
- Online Training

THE SIX HALLMARKS OF FLIR ITS:

- Real-Time-Analysis
- Efficient & Reliable
- Video Detection
- (Seeing is believing)
- Connected
- Cost Effective

Traffic Solutions Now and in the Future

The six hallmarks of FLIR ITS are revolutionizing how traffic flows on roadways throughout the world. Our unique, field-proven solutions help deep-vessel traders, pedestrians, and bicycle traffic, seeing accidents and fatalities in real-time video, combining cameras, intelligent video analysis, and connected and Constellation Solutions. FLIR Intelligent Transportation Systems has the right solution for your specific situation. Traffic managers all over the world use technology from FLIR ITS to keep roadways safe and running at peak efficiency. FLIR ITS solutions help protect citizens, as well as critical infrastructure. FLIR takes pride in making the places we live, work and travel to as safe as possible.

For the right solution for your transportation needs, visit our website at www.flir.com/traffic

- Or reach out and contact one of our trusted ITS Sales associates across the globe: Tel. +32 (0) 56 37 22 00

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