



## FLIR Certified Systems Integrator Security & Surveillance (FCSI)

Advanced training course for integrating FLIR Systems thermal imaging cameras into a network

**FLIR Systems is the world's largest supplier of thermal imaging cameras that are being used for a wide variety of night vision applications. As a market-leading enterprise, we would like to share our specialist product knowledge and technology expertise with our partners and other interested parties. Our training organization, the Infrared Training Center (ITC), is the world leader in the field of thermal imaging training. All of our instructors are themselves certified, and they contribute their experience in a wide range of thermal imaging fields to the seminars.**

### Thermal imaging cameras: valuable instruments for night vision applications

FLIR thermal imaging systems are often integrated with other third-party security devices in Security and Surveillance applications. FLIR thermal imagers typically provide an important complement to ordinary daylight cameras in overall video security solutions.

Modern security systems are becoming more and more complex. A security network consists of various types of sensors that need to work together in order to offer maximum coverage. Radar, perimeter and ground sensors, CCTV cameras, thermal imaging cameras and other sensors need to be geo-referenced and interconnected in "slew to cue" configurations.

Although there are numerous third-party solutions to integrate thermal imaging cameras into a new or existing security network, FLIR Systems has developed its own powerful technology to help to integrate thermal imaging cameras in large, existing or new, security networks: Nexus.

Nexus is a suite of products that includes both software and hardware tools and components. All these components can easily be integrated with each other.

To help FLIR Systems distributors and system integrators to deploy Nexus, we are organizing three days training courses.

Apart from Nexus, this course is also covering FLIR Sensors Manager, an "out of the box" software to manage and control FLIR Systems thermal imaging cameras for security and surveillance applications.

### Objective of the Training

To provide system integrators and distributors the knowledge required to integrate FLIR cameras in Nexus as well as common third party software, hardware and network components.

### Certification

After completion of the course and passing a small examination at the end of each day, you will receive the "FLIR Certified Systems Integrator Security and Surveillance" certificate.

### Target Group – Number of participants

This course is intended for FLIR Distributors and Integrators that are involved with the integration, installation and support of FLIR CVS thermal imaging solutions in legacy CCTV networks and IP networks for security and surveillance applications.

To guarantee a real hands-on learning experience there is a maximum of 20 participants to each course. Places are assigned on a "first come, first serve" basis.

### Prerequisites

Prior to the training, participants need to have knowledge about operation and installation of FLIR Systems thermal imaging cameras. From previous experience they should be able to submit a list of questions on problems they ran into during the installation of our cameras. Questions need to be submitted prior to the training. During the training these questions will be addressed.

### Duration

Each session contains 3 days of training

### Location

In order to avoid long travelling, training courses are being organized at various locations in EMEA and Asia-Pacific. Please contact FLIR Systems for exact dates and locations.

### Price

The participation cost is € 1,500. The price includes training material, beverages (during breaks), and lunch.

Upon successful completion of the course, you will receive a voucher for the same amount as the participation cost. This voucher can be used the next time you order FLIR Systems products. This means that you get a € 1,500 discount on your next order and you get a complete refund of the training course. The voucher is valid for one year, starting on the completion day of the course.

## Course program

All three days are an ideal mix of theoretical fundamentals combined with hands-on exercises. With the help of the available hard- and software, participants will install their own security networks.



### Day 1: System Integration Topics

A comprehensive overview of the requirements for integrating thermal imagers in legacy CCTV networks as well as in emerging TCP/IP security backbones.

- Security systems (video and other sensors)
- Legacy video architecture: industry trends and standards
- Installation versus integration
- Integrating FLIR Systems thermal imaging cameras with matrix switches, radars, Pelco devices, video analytic software and other video security infrastructure components
- Video: encoders, switches, and analytics
- IP integration
- Raven: effectively lay out a security system and estimate its range performance
- Typical integration scenarios; interfacing with other sensors: radars, ground sensors, ...
- With the help of a third-party server a small security network will be installed.



### Day 2: Nexus Basics

FLIR's Nexus technology allows FLIR thermal imagers and other security components to be integrated in a TCP/IP network. High-end imaging systems can be integrated with other security devices in Security and Surveillance applications.

- Operational knowledge of the Nexus Server and FLIR Sensors Manager
- Installation of FLIR Sensors Manager
- The architecture and components of FLIR Sensors Manager
- The features and functions of FLIR Sensors Manager
- Nexus integration with other communication protocols
- Control sensors and monitor streaming video over the network using the FLIR Sensors Manager
- Configure Nexus Servers for command and control
- Optional modules for the FLIR Sensors Manager
  - Mapping
  - Surveillance Monitor
- Using a Pelco interface in a Nexus environment
- Using Nexus servers a small security network will be installed
- Tips & Tricks

### Day 3: Nexus Advanced

- Mapping / Geo-referencing: calibrating a map, set-up a sensor and record images with time-stamped, geo-reference information in association with system events, display real time coverage on a map, slew thermal imaging cameras to look at certain coordinates
- Creating a Scan List
- Panoramas: built a mosaic of sequential image captured in a sector, automate the process of image acquisitions
- Electronic stabilization, Video Motion Detection tracking, ... modules
- Optimizing Video Analytics Configurations
- Configuration of a Radar Server
- Slew-to-Cue configurations
- Recording up to 25 simultaneous MPEG network video streams directly with a nVDR
- Software Development Kit



#### Registration

Please use the attached registration form to register for training courses. The number of participants is limited. Applications for registration will be processed in the order received. Following receipt of your written order, you will receive a registration confirmation along with all necessary additional information.

#### Lodging

In accordance with the wishes of many participants, we attempt to lodge all participants in the same hotel. We would be pleased to send you our current hotel recommendation.

#### Cancellation

If you are unable to participate in a course you have already booked, please notify us no later than 14 days before the start of the training course. In case of cancellations later than this date, we reserve the right to invoice for 50 % of the course fee. Naturally, we also accept participation by a substitute person or registration for a course given at a later date. If courses or portions of courses cannot be given for reason of force majeure, no right to compensation shall exist.

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