



Course Description: FLIR Certified Systems Integrator (FCSI)

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

Summary Description

This course provides familiarity with the FLIR Security thermal cameras and Nexus software architecture, with an emphasis on how to install, operate, and maintain the FLIR systems. Performance issues will be discussed, and students will learn how to configure a thermal camera for a given application.

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.

Objective of the Training

To provide system integrators, distributors and end users 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, the student will receive the "FLIR Certified Systems Integrator Security and Surveillance" certificate.

Target Audience

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

Prerequisites

Familiarity with thermal imaging solutions and with security and surveillance applications in general, and a foundation in basic math and algebra are required.

Duration

Each session consists of 3 days of training

Course program

All three days provide a 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

The course begins with a comprehensive overview of the requirements for integrating thermal imagers in legacy CCTV networks as well as in emerging TCP/IP security backbones.

- Overview of Thermal Imaging applications
- Review of Security systems (video and other sensors)
- Legacy video architecture: industry trends and standards
- Integrating FLIR Systems thermal imaging cameras with matrix switches, radars, serial devices, video
- Performance predictions: effectively lay out a security system and estimate its range performance
- Typical integration scenarios; interfacing with other sensors: radars, fence sensors, ...

Day 2: Nexus Basics

- Operational knowledge of the Nexus Server and FLIR Sensors Manager
- Installation of FLIR Sensors Manager
- Nexus integration with other communication protocols
- Control sensors and stream video over the network using the FLIR Sensors Manager
- Configure Nexus Servers for command and control
- Using a serial interface in a Nexus environment

Day 3: Nexus Advanced

- Mapping / Geo-referencing: calibrating a map, set-up a sensor
- Creating a Scan List
- Panoramas: sequential image captured in a sector
- Video Motion Detection and other analytic image processing functions
- Configuration of a Radar Server
- Slew-to-Cue configurations
- Recording with an nDVR
- Software Development Kit (SDK)