Border security and coastal surveillance are 24/7 operations that can’t afford downtime or periods of reduced readiness. Guarding against illegal immigration, smuggling, and terrorism demands reliable long-range threat detection and positive identification of potential threats all day, all night, and in all conditions.

Whether your primary targets are small boats on the water, or people crossing borders on foot, FLIR’s high performance cameras and radars can give you the early warning and threat assessment you need to respond efficiently and effectively. With industry standard interfaces, FLIR components are easy to integrate with the command and control solution you desire to create the rapid deployment solution you need.

Inbound threats come from land, on the sea, and in the air. With FLIR’s powerful border surveillance solutions, earlier detection and intelligent threat assessment mean greater coverage and faster response without increasing workload.
CRITICAL INFRASTRUCTURE PROTECTION

By integrating radar, sonar and multispectral imaging, see beyond the perimeter of critical infrastructure facilities to stop suspicious activity before it gets close.

MOUNTAINOUS BORDER SURVEILLANCE

Overcome challenging terrain and provide persistent surveillance using a combination of tactical vehicles and networked ground surveillance assets.

DESERT SURVEILLANCE

Land-based radars, mobile surveillance vehicles, and networked multispectral surveillance systems provide total situational awareness and early detection in the most challenging environments.
The mission of securing a nation’s borders is challenging for many reasons, chief among them is the sheer size of the area that needs to be effectively monitored and patrolled. Vehicle-based platforms need to be able to operate independently, while still integrating with a central command-and-control facility so that sector commanders can reposition their border security assets as the tactical situation demands. FLIR’s border vehicle solutions do all this and more with modular, configurable sensors to match the mission.
MVSS

The MVSS is a powerful, flexible long-range integrated surveillance system that goes wherever your missions demand. As a standalone system, or an interconnected network MVSS combines ground surveillance radar and multispectral imaging sensors to detect threats out to 25 kilometers away, and accurately assess their intent. Its integrated command and control software gives sector commanders real-time threat assessment so they can respond immediately. MVSS gives you the flexibility to set up persistent surveillance, or reinforce areas in an existing network with unmatched vision.

LTV

The Light Tactical Vehicle (LTV) from FLIR is a light, agile – yet powerful – mobile imaging and radar platform. A tactical mobile surveillance platform, LTV gets operators into position and gives them clear situational awareness all day, all night, and from extreme ranges. Combining ground surveillance radar with multispectral imaging, LTV can detect threats out to 10 kilometers away, and accurately assess their intent. Its integrated command and control capability lets operators work independently and feed real-time imagery back to their command center.

CERBERUS

Cerberus™ is a rugged, trailer-based, preconfigured, long-range mobile surveillance system that rapidly deploys in austere and environmentally challenging environments to provide remote perimeter surveillance unmanned for weeks at a time.

SKYWATCH

SkyWatch™ mobile observation towers provide a high level platform for an array of surveillance options. Every portable tower includes the basics for the comfort and safety of the officer inside through adjustable heat and air conditioning, tinted sliding glass windows and comfortable seating. And no matter the application, SkyWatch can be set up and deployed by a single person.
Understanding the nature of a threat is critical to intercepting and defeating it. FLIR’s ground surveillance radars detect and track multiple threats simultaneously, providing precise location, heading and speed details. Covering areas beyond the fence line, security personnel can monitor and control their security zone by intercepting threats before they can cause harm. With next-generation FMCW technology in a ruggedized, MIL-spec design, FLIR radars deliver exceptionally fast class leading target detection and acquisition performance.
Argus

Argus is a fixed, rugged, preconfigured wide area surveillance system. Combining a best-in-class radar with a thermal imager and Command and Control software, Argus is designed to detect, assess, and track multiple threats in the most demanding weather conditions 24 hours a day, 7 days a week. When compared to other perimeter security solutions, Argus has the lowest initial cost per kilometer of secured space as well as the lowest lifetime cost.

Ranger® R20SS Land/Coastal

The Ranger® R20SS is a ground and coastal surveillance radar specifically designed to detect and track personnel and vehicles at distances up to 20 kilometers. With its solid-state electronic scanning capability and fast 2 Hz refresh rate, the Ranger R20SS has class leading target detection and acquisition performance. The Ranger R20SS utilizes advanced tracking algorithms which enable fast detection and track initiation resulting in highly accurate target location with a low false alarm rate. The system operates in the X-band for all weather operation and can be vehicle-mounted or stationary.

Ranger® R1, R3, R5, R3D, R5D

The Ranger perimeter surveillance radars provide accurate, high resolution detection of vehicles and personnel. Designed to perform in the most demanding environments, they provide 24/7 security to ranges of up to 5Km. Scanning as much as a full 360 degrees every second they can effectively monitor up to 78 square kilometers (30 square miles). These radars also feature Doppler Staring mode, which significantly increases detection range. Multiple units can be installed with overlapping coverage to protect the larger areas required for border security missions, and are easily networked to form a single integrated system with other sensors and command and control systems. By leveraging the radar’s advantage in detecting intruders, pan-tilt-zoom (PTZ) cameras can focus on their strength – identifying and assessing those threats – for a more efficient and cost effective solution.
Detecting a potential threat is just the first step. Once an object of interest is detected, it must be identified, and its threat level assessed. Without clear, long-range visual analysis of detected threats on land or water, operators can’t discern between false or nuisance alarms and alerts that require interdiction. As the world leader in thermal imaging, FLIR extends your vision with crisp, clear thermal and visible imagery to give you the information you need to respond.
Ranger™ HDC and HRC thermal imaging systems offer extended range performance with HD (1280x720) or high-resolution (640x480) midwave sensors and powerful continuous-zoom telescopes. Available standalone or integrated with visible cameras, laser rangefinder, digital magnetic compass, and robust pan/tilt platform, the Ranger family of sensors provides precision geo-location and superior reliability.

The world’s first stabilized compact HD multi-sensor imaging system for tactical vehicles, TacFLIR 280-HD builds on FLIR Systems’ decades-long history of producing combat-proven imaging systems for land vehicles and other mobile platforms. With full HD imaging, a variety of image blending and display modes, and simple integration, the TacFLIR 280-HD outperforms every other compact system available. For ultralight installations, FLIR also offers the TF-230.

The Ranger® MS-UC DefendIR is an industry leading mid-range thermal imager utilizing a continuous zoom 640 x 480 array uncooled VOx detector, 26x zoom CCD color camera and an optional 12 million-candlepower (MCP) spotlight. Innovative VisionSense™ technology offers user-controlled blending of the visible and infrared cameras, providing greater threat detail. Easily integrated into existing fiber, wireless or IP networks, and with VMD, radar, UGS or other trigger sensors, DefendIR delivers a powerful, flexible “slew to cue” solution.

Pan/Tilt Long-Range Multi-Sensors
Ranger™ HDC and HRC thermal imaging systems offer extended range performance with HD (1280x720) or high-resolution (640x480) midwave sensors and powerful continuous-zoom telescopes. Available standalone or integrated with visible cameras, laser rangefinder, digital magnetic compass, and robust pan/tilt platform, the Ranger family of sensors provides precision geo-location and superior reliability.

Pan/Tilt Medium-Range Multi-Sensors
The Ranger® MS-UC DefendIR is an industry leading mid-range thermal imager utilizing a continuous zoom 640 x 480 array uncooled VOx detector, 26x zoom CCD color camera and an optional 12 million-candlepower (MCP) spotlight. Innovative VisionSense™ technology offers user-controlled blending of the visible and infrared cameras, providing greater threat detail. Easily integrated into existing fiber, wireless or IP networks, and with VMD, radar, UGS or other trigger sensors, DefendIR delivers a powerful, flexible “slew to cue” solution.
All of the long-range imagers and radars won’t help you keep your borders secure if field operators and sector commanders can’t view the information they provide and coordinate the movement of forces accordingly. FLIR’s C2 software allows you to control and network multiple cameras and radars to operate efficiently and effectively over wide areas.
INTEGRATED INTELLIGENCE

FLIR’s sensor solutions can be integrated using a variety of third party C2 platforms, and are designed to maximize interoperability, and minimize setup complexity. FLIR also offers its own powerful C2 solution, Cameleon™, which provides comprehensive surveillance in a highly customizable and user-friendly environment. Readily scalable, it allows the addition of servers and clients as needed. The intuitive and configurable client interface provides operators with access to distributed displays through simple drag-and-drop actions while the powerful server environment provides intelligent, workload-reducing features including device prioritization, system security and granular permissions control, alarm management, archived video storage/retrieval and advanced automation using a robust scripting language. Your C2 or ours, FLIR works with all solutions.

KEY INSTALLATIONS

US and Foreign Military Installations
US Customs and Border Patrol
Foreign Border Security Forces
Schiphol Airport
Port Metro Vancouver
Baltimore Police Department
New Doha International Airport
Over 500 sites in operation today
FLIR’s handheld imagers are lightweight, powerful, and easy to use, making those responsible for border surveillance more capable and more agile on their frontiers than ever before. FLIR’s Recon® series of thermal binoculars and monoculars can combine longer range imaging with enhanced features like hot-swappable batteries, laser rangefinders, a digital magnetic compass, and up to 10x optical zoom for target identification at greater standoff range.
RECON V
The Recon V is a compact, rugged, easy to use, lightweight multi-sensor thermal binocular designed for 24/7 field operations that require enhanced imagery and long standoff range performance. Its internal GPS, DMC, and long-range laser rangefinder provide accurate range to target as well as precise target location. The 10x continuous zoom optic, MEMS-based electronic stabilization, and high definition color video display combine to provide unmatched image quality and flexibility.

RECON B2-F0
The Recon® offers long range reconnaissance and target geo-location capability with options for up to three fields of view, mid-wave and long-wave IR sensors, 4x continuous zoom, GPS, DMC, laser rangefinder, laser pointer and on-screen mapping, image storage and download capability, color CCD video day channel, tripod base, remote control, power and video options. Weighs 8 lbs (3.6 kg) or less.

RECON M18
The Recon® M18 is a full-featured, high performance pocket tactical scope with a standard 640x480 imager, digital zoom up to 4x, remote video output and an available laser pointer. Like other members of the proven Recon family of products, the Recon M18 is MIL hardened and submersible, with low power consumption for long battery life.

BHS SERIES
The FLIR BHS-Series Thermal Imaging Camera brings your other eye into play. Featuring a full coverage eyepiece, inter-ocular adjustment, ergonomic comfort, quick-disconnect lenses, and the unrivaled performance that only FLIR’s high-resolution thermal cores can deliver.
»SYSTEM PERFORMANCE