

# MARITIME SYSTEMS



- SeaFLIR® Series
- StarSAFIRE™ Series
- Sea StarSAFIRE™ Series
- BRITE Star™
- ThermoVision® Series
- MiICAM™ Series

U.S. COAST GUARD



MARITIME SYSTEMS  
[www.flir.com/mar3](http://www.flir.com/mar3)

# shipborne/airborne/coastal



## SeaFLIR® Series

Compact and rugged, SeaFLIR is the ultimate force multiplier. Delivering crisp long-range thermal and visible light imagery in harsh maritime environments, SeaFLIR's operator selectable turret orientation allows mounting on aircraft, the pilot's house, or a ship's mast. Optional configurations address mission critical needs using combinations of infrared, color CCD, low-light monochrome CCD, and laser range-finding payloads.



## StarSAFIRE™ Series

The gyrostabilized StarSAFIRE series provides long-range high-resolution airborne and maritime thermal imagery, and accommodates optional payloads such as color CCD, spotter scope, image intensified camera, multi-mode autotracker, laser range-finder, covert laser illuminator, and laser pointer.



## Sea StarSAFIRE™ Series

95% common with the StarSAFIRE series, Sea StarSAFIREs are identical in features, performance and sensor options, with the added advantage of upward or downward orientation flexibility and provisioning for optional arctic de-icing capability. The IR sensor can be augmented by an eyesafe laser rangefinder, 3-chip color CCDTV, TV Spotter scope, Image Intensification, laser pointer and laser illuminators.



## BRITE Star™

An advanced laser designator/rangefinder thermal imaging system designed for both fixed and rotary wing aircraft. The system is built around the proven StarSAFIRE thermal imager, which is currently in production and fielded on various aircraft worldwide.

# coastal



## MilCAM™ Series

The MilCAM series systems feature state-of-the-art infrared imaging in a handheld design. Rugged, yet surprisingly lightweight and low power, the MilCAM provides unprecedented viewing power at viewing power to distances approaching 10 kilometers - ideal for a wide range of standoff viewing applications.



## ThermoVision® Ranger™

High resolution, environmentally sealed system provides reliable long range mid-wave infrared performance for coastal surveillance and harbor security.



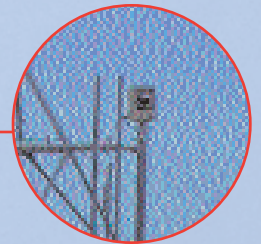
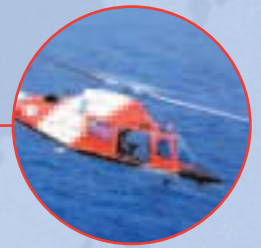
## ThermoVision® Sentry™

Continuous day/night surveillance system featuring integrated pan/tilt with continuous 360° rotation designed for wide area surveillance and security. The Sentry's pan/tilt features a programmable multi-point auto scan with sub-pixel repeatability.



## ThermoVision® 2000 Series

High resolution imager featuring ruggedized environmental enclosure and mission specific optics. The system's LWIR QWIP response meets current military requirements and is minimally affected by atmospheric obscurants.



# MARITIME systems

There's a FLIR imager for every need. Follow the color codes to match systems, applications and images.

## SEARCH & RESCUE

Thermal imaging helps save lives by enabling ship and airborne crews to find victims faster and more efficiently. Day or night and through rain, light fog, or smoke, thermal imaging is an indispensable tool for search and rescue operations.

## SURVEILLANCE

Standoff advantage is key for intelligence gathering. FLIR allows maritime professionals to conduct a variety of surveillance operations including coastal surveillance, waterway monitoring, submarine wake detection, pollution control, and covert law enforcement operations. At sea or on land, locate ships or coastal fortifications while being undetected at ranges exceeding 20 km.

## WEAPON CONTROL

Support fire control and weapon management systems with high-performance, reliable, multi-sensor payloads.

## SECURITY & FORCE PROTECTION

Maximize intrusion detection on ships, in harbors, into military facilities, or to defend against threats. FLIR's thermal imaging sensitivity provides unparalleled perimeter surveillance. All systems support quick deployment and rapid set-up.

## NAVIGATION & SITUATIONAL AWARENESS

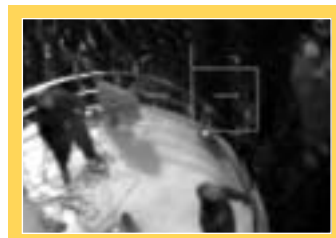
Maintain clear, 360-degree visibility in low- or no-light conditions. Identify navigational landmarks. Optimize collision avoidance. Receive early alert and warning of safety issues. See objects that radar or visible sensors have difficulty in detecting.

## VESSEL TRAFFIC MONITORING

Optimize commercial traffic monitoring at ports, harbors, and rivers. Perform pollution or environmental monitoring. Determine the class of ship, type of cargo, and loading parameters from infrared signatures. Watch for smuggling or other illegal operations. Infrared signatures provide answers that radar and conventional TV monitoring cannot.

## RECONNAISSANCE

Thermal imaging is a powerful way to quantify the opposition's strength on sea or land. Locate ships or coastal fortifications while being undetected at ranges exceeding 20 km. FLIR's versatile imaging systems give you the advantage of conducting your reconnaissance missions using ground personnel or from a variety of vessels, aircraft and unmanned platforms.





# FLIR's Spiral Product Development



FLIR's unique product development program enables customers to consistently field the latest technology at lower costs - thereby eliminating the need to purchase all-new systems. FLIR's proven track record for forward and backward compatibility upgrades is unique in the industry and protects your investment for many years to come. Pictured above are two examples of FLIR's successful spiral product development methodology in the StarSAFIRE and SeaFLIR product lines.

## FLIR Technology

### TECHNOLOGY LEADERSHIP

FLIR's engineering expertise and integration experience is unparalleled. As the world leader in advanced infrared imaging solutions, FLIR is uniquely positioned to meet your most demanding requirements.

### FLUENT IN ALL THERMAL SENSOR TECHNOLOGIES

FLIR offers extensive experience and expertise in all key sensor technologies. In fact, FLIR provides more mission and platform specific solutions incorporating InSb (Indium Antimonide), QWIP (Quantum Well), and microbolometer uncooled focal plane arrays than anyone else in the industry.

### OPTICS FABRICATION

FLIR's in-house optics fabrication capability gives us full control over the manufacturing process - ensuring the highest levels of optical quality and guaranteeing flawless integration with all FLIR components.

### COOLERS AND DETECTORS

Strategic partnerships with leading suppliers of uncooled and cooled sensor technology, together with the recent acquisition of Indigo Systems, give FLIR Systems product strength in FPA fabrication of InSb, InGaAs, microbolometer, and QWIP sensor technologies, plus proprietary microcooler development, ensuring continued technical innovation and uncompromising product quality

### PARTNERING WITH OEMS AND SYSTEMS INTEGRATORS

FLIR's technologies, including components, subsystems, and complete systems, are available for integration into larger OEM systems. Our track record partnering with OEM and systems integrators is extensive and highly successful. Our applications engineers will work closely with you every step of the way, from initial concept exploration through on-site implementation and training.

## SEAFLIR SPIRAL DEVELOPMENT



# Worldwide User Base

FLIR Systems has supplied thousands of infrared imaging systems to military and government agencies worldwide. High resolution imaging systems from FLIR Systems are currently fielded by the following organizations:

## U.S. GOVERNMENT ORGANIZATIONS

U.S. Navy  
U.S. Marines Corps  
U.S. Coast Guard  
U.S. Army  
U.S. Air Force  
U.S. Navy's Military Sealift Command  
U.S. Bureau of Customs and Border Protection  
U.S. Drug Enforcement Agency  
National Guard Bureau  
Federal Bureau of Investigation  
Night Vision & Electronic Sensors Directorate (NVESD)  
Naval Research Lab (NRL)  
Naval Surface Warfare Center  
U.S. Department of State  
U.S. Capitol Police  
Naval Air Warfare Center  
U.S. Special Operations Command  
Space & Naval Warfare Systems Center

## INTERNATIONAL GOVERNMENTS & ORGANIZATIONS

Japanese Maritime Agency  
Royal Danish Navy and Airforce  
Royal Netherlands Navy  
Kuwaiti Navy  
Guardia di Finanzia  
Spanish Navy & Marines  
DSTO (Australia)  
Royal Malaysian Airforce  
Royal Saudi Navy  
TNO-FEL Netherlands Research Institute  
Royal Canadian Airforce and Coast Guard  
DOD, Canada  
U.K. MOD  
United Arab Emirates  
Royal Norwegian Navy  
Columbia  
Chile  
Brazil  
Finland

## ADDITIONAL MARITIME CUSTOMERS

Commercial Luxury Yacht Companies  
U.S. and International Naval Shipyards  
Military Aircraft Manufacturers  
HK Fast Ferries  
Marine Guard  
Star Ferries  
Combat System Integrators  
Port Security Agencies  
Platform Integrators and OEMs

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SECURITY SYSTEMS

GROUND SYSTEMS

MARITIME SYSTEMS

AIRBORNE SYSTEMS

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