

GROUND SYSTEMS



- ThermoVision Sentry™
- ThermoVision 1000™
- ThermoVision Ranger™
- MiICAM™



GROUND SYSTEMS
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REGIONAL CONFLICT, POLITICAL
UPHEAVAL, AND CIVIL UNREST IN RECENT
YEARS HAVE RESULTED IN THE
DEPLOYMENT OF MILITARY PEACE
KEEPING FORCES TO AN EVER-
INCREASING NUMBER OF HOTSPOTS
WORLDWIDE. ASYMMETRIC THREATS TO
THESE PERSONNEL, AS WELL AS TO
TRAINING MISSIONS, EMBASSY STAFF
AND OTHER PERSONNEL AND
INSTALLATIONS MUST BE COUNTERED
THROUGH A COMBINATION OF
VIGILANCE AND TECHNOLOGY. FLIR
SYSTEMS PROVIDES THE INFRARED
TECHNOLOGY THAT SERVES AS A FORCE
MULTIPLIER, ENHANCING BOTH
OPERATIONAL EFFECTIVENESS AND THE
SECURITY OF PERSONNEL AND FACILITIES.
OUR HIGHLY MOBILE SENSORS ARE
DEPLOYED WORLDWIDE, PROVIDING A
WIDE RANGE OF CAPABILITIES AND
SERVING AS THE FIRST LINE OF DEFENSE
IN AN OFTEN THREATENING WORLD.

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A Powerful Ally

THE THERMAL IMAGING ADVANTAGE

FLIR cameras turn night into day with superior range and detection capability over traditional night vision systems. A totally passive technology, thermal imaging maximizes situational awareness 24 hours a day in virtually any condition -- unaffected by darkness, haze, and a wide range of obscurants.

THE FLIR ADVANTAGE

FLIR offers an unparalleled range of high-performance sensors and systems for portable handheld, mobile and fixed applications. Mission planners now have the right tools for the right tasks - backed by FLIR's team of highly skilled professionals who are ready to provide training, integration support and service. Innovation and an uncompromising dedication to product quality are what make FLIR the worldwide infrared leader. FLIR combines the world's smallest cryogenic cooler integrated with 3rd-GEN focal plane array (FPA) sensors and high-performance positioning systems featuring sub pixel pointing accuracy to meet your most rigorous requirements.

APPLICATIONS

- Force Protection
- Reconnaissance
- Surveillance
- Border Patrol
- Special Operations
- Forward Observation
- Coastal Surveillance
- Waterside Security
- Target Acquisition & Tracking
- Vehicle Integration
- Training
- Vessel Traffic Monitoring System (VTMS)



fixed FIXED



ThermoVision 1000 Series

High resolution imager featuring ruggedized environmental enclosure and mission specific optics. The system's LWIR response meets current military requirements and is relatively unaffected by battlefield obscurants. Deployed worldwide under the U.S Air Force TASS program.



ThermoVision Sentry

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



ThermoVision Ranger

Long-range thermal imager in an environmentally qualified enclosure designed for integration into a wide range of mobile and fixed systems. The system's mid wavelength response 3rd Gen Indium Antimonide FPA delivers superior image quality.

handheld HANDHELD



MilCAM LE

Exceptional price/performance in a handheld imager. This workhorse camera is highly ruggedized, surprisingly lightweight, and delivers razor-sharp TV-quality images even under the most adverse viewing conditions.



MilCAM XP Series

State-of-the-art infrared imaging in a handheld design. Unprecedented viewing power at multi-kilometer distances. Rugged yet surprisingly lightweight and low power. Ideal for a wide range of standoff viewing applications.



GROUND systems

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

RECONNAISSANCE

Locate troops at ranges exceeding 10 kilometers completely undetected. Thermal imaging is a powerful way to quantify the opposition's strength in tanks, artillery, antiaircraft defenses and other weapons systems.

FORCE PROTECTION

Maximize intrusion detection at airfields, barracks, and fuel and ammunition depots. FLIR's thermal imaging sensitivity is unparalleled for perimeter surveillance, and all systems are designed for quick deployment and rapid set up.

COASTAL SURVEILLANCE

Monitor hundreds of square miles of waterways for terrorist intrusion, illegal smuggling, illegal ship traffic and illegal fishing. Combine thermal imaging with VTMS (Vessel Traffic Monitoring System) at major ports for additional navigational support to harbor dispatchers.

BORDER SURVEILLANCE

Maintain border integrity with a network of camera systems that provide long-range illegal alien traffic detection 24 hours a day. Select from fixed or patrol vehicle mounted systems and a wide range of handheld sensors to meet all patrol mission requirements.

TRAINING

Improve range safety during live fire training. Thermal imaging is also ideal for target strike verification -- dramatically enhancing training effectiveness and scoring accuracy -- and for after action review.



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MiICAM**XP**Series



MiICAM**LE**



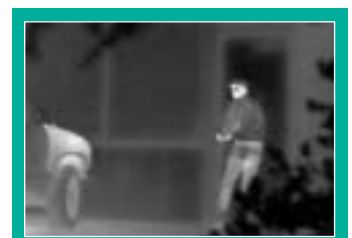
ThermoVision**SENTRY**



ThermoVision**RANGER**



ThermoVision**1000**Series



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. FLIR offers more mission 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 system components.

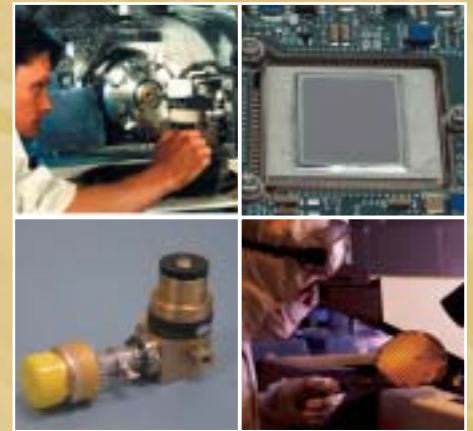
COOLERS AND DETECTORS

Strategic partnerships with leading suppliers of uncooled and Indium Antimonide (InSb) detectors, together with FLIR's proprietary micro-cooler and QWIP detector development, ensures technical innovation and product quality.

PARTNERING WITH OEMS AND SYSTEMS INTEGRATORS

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

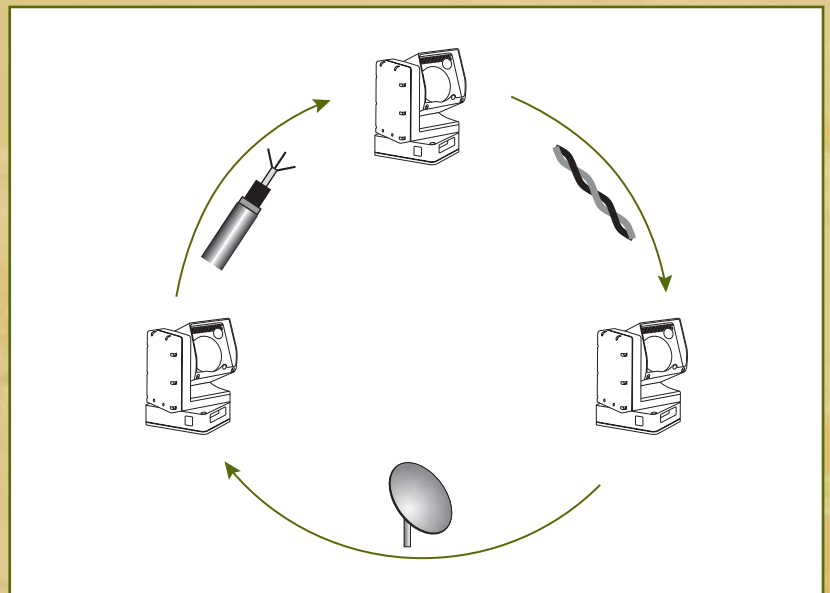
From initial design and optics fabrication, to final assembly and test, all aspects of every FLIR product are tightly monitored and controlled.



Networking

POWERFUL NETWORKING CAPABILITIES

Connect a series of ThermoVision Sentry systems into a distributed network of day/night surveillance cameras for unparalleled surveillance power. Networking software enables you to operate the camera network from a single desktop or laptop observation station. From a remote location you can view each camera's output and send commands controlling pointing, infrared field of view and daylight camera zoom.



Worldwide User Base

FLIR Systems has supplied hundreds of MilCAMs into military and government agencies worldwide. These high resolution infrared imaging systems are currently fielded by the following organizations:

U.S. GOVERNMENT ORGANIZATIONS

U.S. Army
U.S. Navy
U.S. Marine Corps.
U.S. Air Force
U.S. Joint Special Operations Command
U.S. Coast Guard
Immigration Naturalization Service
US Customs Service
National Guard Bureau
U.S. Drug Enforcement Agency
Federal Bureau of Investigation
U.S. Forest Service
Night Vision & Electronic Sensors Directorate (NVEDS)
Naval Research Lab (NRL)
Naval Surface Warfare Center
U.S. Department of State
U.S. Capitol Police

INT'L GOVERNMENTS & ORGANIZATIONS:

Spanish Army
Spanish Navy & Marines
DSTO (Australia)
Australian Federal Police
TNO-FEL Netherlands Research Institute
DOD, Canada
U.K. MOD

U.S. POLICE DEPARTMENTS

Placer County Sheriff
Sonoma County Sheriff
Lafayette, LA Parish Sheriff
Kentucky State Police
Bergen County, NJ Sheriff
Greensboro, NC Police
Virginia State Police
Arkansas State Police

TASS

The US Air Force has deployed the ThermoVision 1000 and ThermoVision Sentry around the world as a critical component of the **Tactical Automated Security System (TASS)**. TASS is a rapidly deployable, integrated electronic security system that provides security and force protection for US personnel and assets located in Korea, South West Asia and elsewhere. Within the TASS system, the ThermoVision 1000 and Sentry fill the critical role of assessing the nature and force composition of intrusions into protected areas, enabling and directing an appropriate response. The TASS ThermoVision systems have passed all testing, are fully deployed and operational, and provide a highly effective force multiplier for security personnel.



product SELECTION GUIDE

	MILITARY									LAW ENFORCEMENT					PUBLIC SAFETY						
	Perimeter Security	Coastal Surveillance	Border Patrol	Government Facilities Security	Force Protection	Special Operations	Training Range	Forward Observation	Fire Control	Thermal Weapons Sight	Indoor Grow Investigation	Police Surveillance	Drug Interdiction	Search	Customs Inspection	Search and Rescue	Disaster Response	Environmental Monitoring	Oil Spill Response	Forest Fire Mapping	Vessel Traffic Monitoring System
STANDARD PRODUCTS																					
MilCAM LE			●	●			●			●	●	●	●	●	●	●	●				
MilCAM XP Series		●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●		
ThermoVision Sentry	●	●	●	●	●		●								●						●
ThermoVision Ranger	●	●	●		●		●	●				●			●						●
ThermoVision 1000	●	●	●	●	●		●	●				●						●		●	●
Thermal Weapons Site (TWS)						●			●												
INTEGRATOR SERIES																					
XP OEM	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●		●
6-24 UC (Uncooled)	●	●	●	●	●		●											●	●	●	●

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