SECURITY SYSTEMS

○ **Long-Range Security**
ThermoVision® 2000
ThermoVision® Ranger

○ **Mid-Range Facility Security**
ThermoVision® Sentry
ThermoVision® Sentry POD
ThermoVision® Security

○ **Handheld & Maritime Security**
MilCAM™ Series
ThermoVision® SE 1
ThermoVision® SE 10
SeaFLIR™

◆FLIR SYSTEMS™

SECURITY SYSTEMS
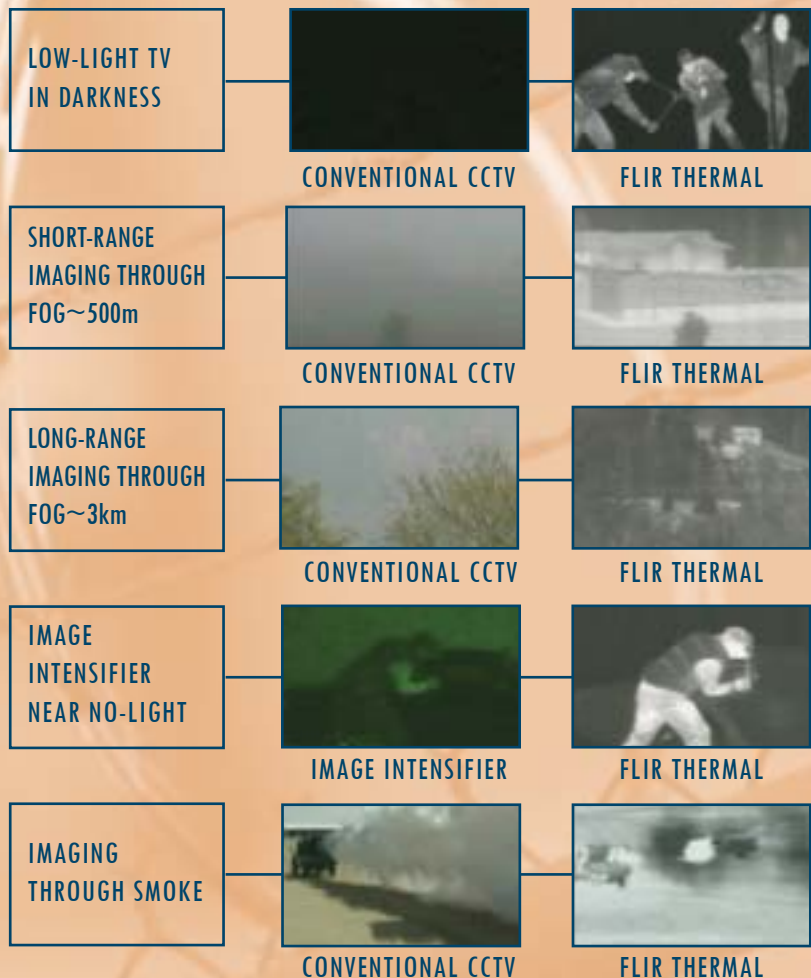www.flir.com/ss

See Beyond the Visible

THE THERMAL IMAGING ADVANTAGE

FLIR's thermal imaging cameras turn night into day and obscurity into clearly visible images. With range and detection capabilities that outperform conventional night-vision equipment, light amplification devices, and active infrared illumination systems, our non-obtrusive technology generates video by capturing the heat emitted by humans, mechanical devices, and all objects found in the environment. Thermal imaging has long been the military's technology of choice due to its effectiveness at detecting and monitoring human-related activity in summer and winter. By employing FLIR's thermal imaging cameras, security programs benefit from maximum situational awareness 24 hours a day in the harshest weather conditions.

APPLICATIONS

- Perimeter Security
- Marine Security
- Port Security
- Wide Area Surveillance
- High-Value Asset Protection
- Critical Area Monitoring
- Access Control
- Parking Facilities
- Traffic Control
- Search & Rescue
- Border Patrol
- Night Observation

THERMAL CAMERAS VS. CONVENTIONAL & LOW-LIGHT TV

LOW-LIGHT TV IN DARKNESS	CONVENTIONAL CCTV	FLIR THERMAL
SHORT-RANGE IMAGING THROUGH FOG~500m	CONVENTIONAL CCTV	FLIR THERMAL
LONG-RANGE IMAGING THROUGH FOG~3km	CONVENTIONAL CCTV	FLIR THERMAL
IMAGE INTENSIFIER NEAR NO-LIGHT	IMAGE INTENSIFIER	FLIR THERMAL
IMAGING THROUGH SMOKE	CONVENTIONAL CCTV	FLIR THERMAL

ThermoVision 2000

A three field-of-view long-range thermal imaging system, offering unmatched performance from its long-wave, GEN-III focal plane array infrared sensor. The field-hardened enclosure withstands severe environmental conditions and provides high-resolution images at distances exceeding 10 km.

ThermoVision Ranger

A two field-of-view long-range thermal imager with an environmentally qualified enclosure designed for integration into mobile and fixed systems. Its mid-wavelength GEN-III focal plane array infrared sensor delivers superior images in adverse weather.

ThermoVision Sentry POD

Its uncooled microbolometer detector offers continuous day/night surveillance in a rugged, sealed, easy-to-use dual-camera module. Easily integrated with existing systems, it also includes advanced functions like auto-focus and InstAlert® color video tagging.

ThermoVision Sentry

A continuous day/night surveillance system, featuring an uncooled microbolometer detector, an integrated pan/tilt mechanism, and designed for wide area surveillance. Its pan/tilt feature includes programmable multi-point autoscan and networking capabilities.

ThermoVision Security

A single field-of-view uncooled thermal imager in a compact easy-to-integrate package. Offering exceptional price performance, it brings thermal imaging capability to any CCTV security system.

MilCAM Series

A high-performance family of infrared imagers offering handheld design and unprecedented viewing from multi-kilometer distances. Lightweight and highly ruggedized, they deliver razor-sharp imagery under the most diverse viewing conditions.
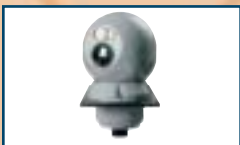
ThermoVision SE 1

A small, light, "flashlight"-style personal imager offering an uncooled microbolometer detector, interchangeable lenses, and a simple user interface. Its 2.5" LCD display provides detailed images for applications within 1 km.

ThermoVision SE 10

A lightweight, yet highly ruggedized, handheld imager with a high-resolution uncooled microbolometer detector, interchangeable lenses, and a simple user interface. It offers crisp imaging for distances up to 1.5 km.

SeaFLIR

A compact, marinized, medium- to long-range thermal imager for marine installations. Its sealed 9" gimbal enclosure offers 360° rotation and active stabilization. Optional configurations address many maritime needs by combining infrared, color CCD, low-light CCD, and laser rangefinding payloads.

Industry

Dams

Power Plants

Airports

Refineries

Harbors

Estates

Bridges

SECURITY systems

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

TRANSPORTATION & ENERGY INFRASTRUCTURE PROTECTION

Protect valuable infrastructure day and night in all types of weather. Combine long-range and mid-range thermal imaging systems for comprehensive surveillance of nuclear power plants, airports, bridges, petrochemical facilities, pipelines, and cargo terminals.

MARINE SECURITY & SURVEILLANCE

Monitor extended areas of open water, shoreline, ports, harbors, and dock facilities. In daylight or darkness, and during conditions that render other technologies ineffective, thermal imaging is the ideal choice for active surveillance against intrusion, unauthorized approach, and other potential safety hazards.
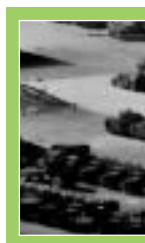
INDUSTRIAL SECURITY

Protect personnel and facilities. Night and day, FLIR's thermal imaging systems detect intruders where conventional CCTV systems fail. Requiring no external lighting, thermal imaging provides vivid, high-contrast video of intruders, even when hidden by obscurants such as fog, smoke, steam, or lack of ambient light. This makes thermal imaging ideal for in-plant surveillance, perimeter monitoring, and high-value asset protection.

PERIMETER SECURITY

Maintain perimeter integrity with a network of camera systems that provides uninterrupted detection of intruders 24 hours a day. Select from a wide range of handheld and platform-mounted systems ideal for factories, airports, commercial complexes, and private residences.

GOVERNMENT & PUBLIC FACILITIES SECURITY

Enhance 24-hour security and improve general safety at embassies and public use facilities. FLIR's thermal imaging cameras easily integrate into existing video security systems, providing imagery that outperforms conventional CCTV by seeing clearly in total darkness and under adverse conditions.

ThermoVision 2000

ThermoVision **Sentry**

ThermoVision **Sentry** POD

ThermoVision **Ranger**

ThermoVision**Security**

Mil**CAM** Series

ThermoVision **SE 1**

ThermoVision **SE 10**

Sea**FLIR**

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.
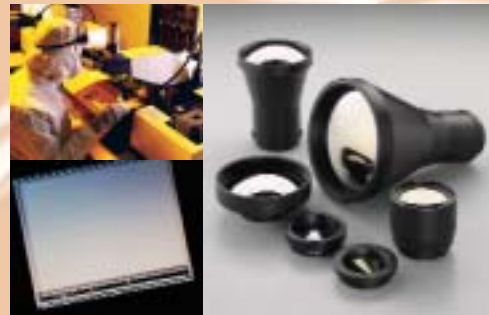
DESIGNED FOR YEARS OF USE

With a broad customer base in the military, industrial, and commercial sectors, FLIR is well known for manufacturing reliable products designed to provide years of unmatched performance. Founded in 1966, FLIR Systems, Inc. continues to develop products meant to exceed the requirements of the world's most demanding users.

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.

PARTNERING WITH OEMS AND SYSTEMS INTEGRATORS

FLIR's technologies - from components, to subsystems, through turnkey imaging packages - are available for integration into larger OEM systems. Our track record of partnering with OEMs and systems integrators is extensive and highly successful. Our applications engineers work closely with your organization 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

NETWORKING CAPABILITIES

FLIR Systems' thermal cameras are designed for easy integration into existing CCTV networks and new enterprise security systems using embedded controllers and optional video interfaces. Digital video network connectivity is easily accomplished using third-party network solutions. All of FLIR's cameras generate standard NTSC or PAL video and are fully compatible with standard analog and digital video components such as switches, recorders, multiplexers, monitors, and video processors.

SYSTEM INTEGRATION

A wide spectrum of sensor and package options supports easy installation and rapid integration, allowing system designers to address mission requirements without compromise. Physical camera packages range from rugged, weatherized systems that require no additional protection, to streamlined models ideal for use with standard weatherproof CCTV camera enclosures. A diverse selection of high-performance lenses addresses the full range of detection and observation requirements. System control options range from turnkey remote panels with integrated joystick controller and LCD display, to stand-alone cameras incorporating RS-232/422 control interfaces. FLIR's adherence to standard video format and control interface protocols provides compatibility with the full range of microwave, optical, and hardwired networks.

Worldwide User Base

FLIR has delivered more than 30,000 sophisticated thermal imaging systems to demanding military, public service, commercial and industrial customers worldwide.

U.S. GOVERNMENT ORGANIZATIONS

U.S. Air Force
U.S. Army
U.S. Navy
U.S. Marine Corps
U.S. Secret Service
U.S. Customs Service
Naval Research Lab
Federal Bureau of Investigation
U.S. Department of State
U.S. Capital Police

INTERNATIONAL GOVERNMENT ORGANIZATIONS

Akita Police, Japan
Australian Federal Police
Canadian Armed Forces
DOD, Canada
Japanese Coast Guard
Portuguese Air Force
Royal Canadian Mounted Police
Royal Malaysian Air Force
Royal Netherlands Air Force
Spanish Army
Spanish Air Force
United Kingdom, Ministry of Defence

INDUSTRIAL CUSTOMERS

Intel
IBM
General Motors
Ford Motor Company
Texaco
Phillips Petroleum
Dow Chemical
Dell Computer Corporation
Honda Motor Company
Kodak
Entergy
American Electric Power
Chubb Insurance Company
Owens/Brockway Glass Co.

product
SELECTION GUIDE

PRODUCTS	Electrical Generation Plants	Pipelines & Power Lines	Refineries	Petroleum & LNG Storage Facilities	Airports & Railyards	Ports, Harbors & Docks	Bridges, Freeways & Tunnels	Ships, Tankers & Yachts	Communications Systems	Dams & Reservoirs	Government Buildings	Embassies	Arenas & Stadiums	Factories	Industrial Parks	Warehouses & Cargo Facilities	Schools & Universities	Residential & Hospitality Security	Parking Facilities
	INFRASTRUCTURE SECURITY										**PRIVATE & PUBLIC FACILITY SECURITY**								
ThermoVision 2000	●	●		●	●		●			●	●	●							
ThermoVision Sentry	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●			
ThermoVision Sentry POD	●	●	●	●	●		●			●	●	●	●	●	●	●			
ThermoVision Ranger	●	●		●	●					●	●	●	●						
ThermoVision Security	●	●	●	●	●	●	●		●		●	●	●	●	●	●	●	●	●
MilCAM Series					●	●		●	●		●								
ThermoVision SE 1	●	●	●	●	●	●	●	●	●		●	●		●	●	●	●	●	●
ThermoVision SE 10	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SeaFLIR						●		●											

APPLICATIONS

FLIR SYSTEMS™

SECURITY SYSTEMS
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SECURITY SYSTEMS
GROUND SYSTEMS
MARITIME SYSTEMS
AIRBORNE SYSTEMS

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