

AIRBORNE SYSTEMS



- **High Performance/Multi Payload**
Star SAFIRE I
Star SAFIRE II
STAR Q
UltraFORCE II
- **High Performance/Targeting**
BriteSTAR
- **Compact Turret/Multi Sensor**
Ultra 7500
Mark II
MicroSTAR
SeaFLIR
- **Long-Range Broadcast/Low Light**
UltraMedia III
UltraMedia LE II



AIRBORNE SYSTEMS
www.flir.com/ab

Above it All

DIVERSE AIRBORNE SURVEILLANCE MISSIONS DEPEND ON FLIR SYSTEMS THAT PERFORM: SEARCH AND RESCUE, RECONNAISSANCE, NEWS GATHERING, FORCE PROTECTION, DRUG INTERDICTION, MARITIME PATROL AND ENVIRONMENTAL MONITORING.

THESE MISSION PROFILES REQUIRE THE USE OF HIGH PERFORMANCE, FLEXIBLE SYSTEMS THAT CAN BE INSTALLED AND OPERATED FROM A VARIETY OF AIRBORNE PLATFORMS, PROVIDING MISSION-CRITICAL IMAGE DATA.

FLIR SYSTEMS PROVIDES THE PERFECT SOLUTIONS FOR YOUR IMAGING NEEDS BY OFFERING A FAMILY OF AIRBORNE IMAGING EQUIPMENT WITH THE FEATURES AND PERFORMANCE TO MEET YOUR CRITICAL MISSION REQUIREMENTS.

THE FLIR AIRBORNE IMAGING ADVANTAGE

FLIR Systems has led the airborne thermal and visible light imaging market since 1978, providing military, law enforcement and broadcast news professionals with an extensive line of airborne imaging products that solve a broad range of mission challenges.

Day or night and in any type of weather, FLIR's imaging systems provide aviation units the range and detection capabilities that consistently deliver successful results. By choosing FLIR, mission planners place into action the right imaging tool for their specific needs, assured that FLIR's team of highly skilled professionals provide training, integration support and service, as well as rapid delivery in a cost effective manner. Innovation and an uncompromising dedication to product quality are what make FLIR the worldwide infrared leader.

APPLICATIONS

- Search & Rescue (SAR)
- Law Enforcement
- Drug Interdiction
- Surveillance
- Targeting
- Anti-Surface Warfare (ASUW)
- Combat Search & Rescue (CSAR)
- Coastal Patrol
- Navigation & Situational Awareness
- Pollution Control
- Electronic News Gathering
- Unmanned Aerial Vehicles
- Reconnaissance
- Anti-Submarine Warfare (ASW)
- Fire
- Public Utility Surveillance



UH-1N

HIGH PERFORMANCE / MULTI PAYLOAD



Star SAFIRE I

Deployed worldwide and well proven the Star SAFIRE I combines a Gen-III high-resolution thermal imager with a variety of payloads to meet mission requirements. Available with daylight TV, laser rangefinder, laser pointer, autotracker and a wide variety of aircraft interfaces.



Star SAFIRE II

Providing industry-leading Gen-III high-resolution mid-wave thermal imagery with 50% longer standoff range, the Star SAFIRE II is the world standard in COTS FLIR technology, including five separate payloads: Long-range thermal imager, low-light TV, ultra long-range spotter scope, laser rangefinder and laser illuminator.



STAR Q

Pioneering Gen-III longwave IR technology, the QWIP-based STAR Q offers long-range IR and daylight performance in a militarized gimbal. Available with 3-CCD TV camera, ultra long-range spotter scope, laser rangefinder, autotracker and a variety of aircraft interfaces.



UltraFORCE II

Featuring FLIR's new longwave Gen-III QWIP technology, the UltraFORCE II offers unmatched IR and TV performance in an economical product. Crisp, clear images are obtained through a 3 FOV thermal imager with auto focus and a 54X zoom 3-CCD TV camera. An optional spotter scope or laser rangefinder can also be selected.

HIGH PERFORMANCE / TARGETING



BriteSTAR

BriteSTAR is an advanced laser designator/rangefinder thermal imaging system designed for both fixed and rotary wing attack aircraft. The system is built around the proven Star SAFIRE II mid-wave thermal imager, which is currently in production and fielded on numerous aircraft worldwide.

COMPACT TURRET / MULTI SENSOR



Ultra 7500

The number one choice for law enforcement agencies worldwide, the Ultra 7500 is the smallest and lightest system on the market. Its Gen-III InSb thermal sensor with a 10:1 continuous zoom IR lens, high quality TV camera with auto focus and zoom lens, and optional laser pointing capability provides stunning images.



Mark II

A small, lightweight, gyro-stabilized multi-sensor system that is in use by hundreds of law enforcement agencies today. Offering excellent imagery from its Gen-I longwave multi-element IR image and CCD TV camera.



SeaFLIR

SeaFLIR's unique operator-selectable turret orientation and quick release mount allow it to easily move from aircraft to ship. It is fully marinized with a sealed ECU and salt resistant gaskets, paints and sealants. All models feature a military-proven 450mm long-range IR zoom optical system. Available with GPS and radar slaving interfaces.



MicroSTAR

Optimized for size and weight, the MicroSTAR's specifications lead the industry. It incorporates a high resolution Gen-III IR imager with zoom lens, CCD camera, optional laser illuminator and UAV protocol for wireless communications.

LONG-RANGE BROADCAST / LOW LIGHT



UltraMedia LE II

UltraMedia LE II combines an image intensifier and a low-light CCD camera with a versatile long-range lens. The UMLE II produces sharp, clear, detailed images with minimal illumination, from extreme stand-off ranges.



UltraMedia III

Capture the action in crisp, stunning detail with FLIR's hermetically sealed, ultra-stable aerial broadcast camera. UltraMedia III offers 5-axis microprocessor-controlled gyro-stabilization, with a choice of 756 or 1000 mm zoom lens, NTSC or PAL format and HDTV upgradeability.

AC-47



HH-60G



A-109



UAV



MD 600



CASA 235/295



UH-1N



P-3C



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

SEARCH & RESCUE

Day or night, rescue crews depend on airborne thermal and visual imaging to locate victims and save lives. Innovative mission management systems and auto scanning functions assure no area is missed.

SURVEILLANCE

The combined capabilities of infrared and CCD-TV airborne imagers effectively support counter-drug, intelligence, evidence gathering, suspect tracking, crowd control and public safety missions by providing a full spectrum of surveillance capabilities.

RECONNAISSANCE

Thermal imaging systems quantify the opposition's strength on sea or land by locating ground forces, armored vehicles and monitoring troop movements while minimizing risk of detection. Reconnaissance missions can be conducted from UAVs, conventional aircraft, and land vehicles.

FIRE FIGHTING

See image through dense smoke, position water drops for maximum effectiveness, guide ground crews to safety. FLIR's military heritage and longwave performance assure mission success.

UAV REMOTE IMAGING

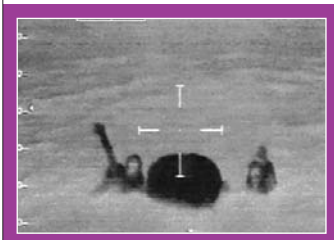
Remotely gather intelligence over hostile territory and assess tactical strikes using long-range IR and CCD-TV.

TARGETING

Locate, identify and designate targets from airborne or maritime platforms. Long-range IR, CCD-TV, laser rangefinding and designation capabilities have been combined and integrated into the proven SAFIRE series.

ELECTRONIC NEWS GATHERING

Deliver real-time imagery of events as they happen. Extreme stability, crisp images, and the ability to zoom in close, while maintaining high altitude, define the industry leading attributes of FLIR's UltraMedia products.



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 specific solutions incorporating InSb (Indium Antimonide), QWIP (Quantum Well Infrared Photodetector) and microbolometer uncooled focal plane arrays than anyone else in the industry.



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

FLIR'S TURNKEY SOLUTIONS

The Integration Service and Support program offers customers the option to integrate a full range of accessories including GPS, SLASS and radar slaving. Additionally, FLIR's world renowned infrared training center (itc) promotes infrared technology through teaching and hands-on application.

COOLERS AND DETECTORS

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

SYSTEM ENHANCEMENTS

FLIR continually integrates innovative tools and engineering enhancements into new and existing systems. FLIR's Mission Management System was developed in response to customer demands for additional mission planning and execution capabilities. This system combines a mission planning module, on-screen imager control, an integrated digital moving map and a post mission debrief package in a single application.

The Mission Management System's digital moving map showing the thermal imaging footprint in dark blue.



OEM Partners

FLIR will continue to develop and support an already strong OEM relationship with some of the best and brightest organizations in the aviation industry including:

AAI
AMERICAN EUROCOPTER
AGUSTA WESTLAND
BELL HELICOPTER
BOEING
BRITTEN-NORMAN
CASA
CESSNA
EH INDUSTRIES
EMBRAER
EUROCOPTER
GKN AEROSPACE
KAMAN
KAZAN

LOCKHEED MARTIN
MD HELICOPTERS
MEGGITT DEFENCE SYSTEMS
NORTHROP GRUMMAN
PILATUS
PROVINCIAL AVIATION
PZL
RAYTHEON
REIMS AVIATION
ROBINSON HELICOPTER CO.
SAAB
SCHWEIZER
SIKORSKY
STEC

Airborne 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

US Air Force
US Army
US Navy
US Marine Corps
US Coast Guard
US Customs Service
US Drug Enforcement Agency
National Guard Bureau
Federal Bureau of Investigation
Night Vision & Electronic Sensor Directorate (NVESD)
Naval Research Lab (NRL)
Naval Air Warfare Center
Naval Surface Warfare Center
US Department of State
US Park Police
US Border Patrol
Special Operations Command

INTERNATIONAL GOVERNMENTS & ORGANIZATIONS

Akita Police, Japan
Canadian Armed Forces
Colombian Air Force & National Police
Guardia di Finanzia
Japanese Coast Guard
Japanese Ministry of Construction
Japanese National Police Agency
Portuguese Air Force
Royal Canadian Mounted Police
Royal Danish Navy & Air Force
Royal Malaysian Air Force
Royal Netherlands Navy
Royal New Zealand Air Force
Royal Saudi Air Force
Spanish Air Force
UAE Armed Forces

STATE & LOCAL POLICE AGENCIES

Alabama Department of Public Safety
Alaska State Police
Alachua County Sheriffs Office
Albuquerque Police Department
Anaheim Police Department
Anne Arundel County Police Department
Arizona Department of Public Safety
Arkansas State Police
Atlanta Police Department
Baltimore County Police Department
Baltimore Police Department
Beaumont Police Department
Broward County Sheriffs Office
Burbank Police Department
California Highway Patrol
Cedar Rapids Police Department
Charleston Police Department
Charlotte County Sheriffs Office
Charlotte Police Department
Citrus County Sheriffs Office
Clayton County Police Department
Colorado Springs Police Department
Columbus Police Department
Compton Police Department
Costa Mesa Police Department
Dallas Police Department

Denver Police Department
Detroit Police Department
Erie County Sheriffs Department
Fairfax County Police Department
Fort Worth Police Department
Fresno Police Department
Gainesville Police Department
Georgia State Patrol
Greenville County Sheriffs Office
Gwinnett County Sheriffs Office
Hamilton County Sheriffs Office
Harrisburg Police Department
Hernando County Sheriffs Office
Hillsborough County Sheriffs Office
Homestead Police Department
Honolulu Police Department
Houston Police Department
Huntington Beach Police Department
Illinois Department of Transportation
Illinois State Police
Indiana River County Sheriffs Office
Indiana State Police
Indianapolis Police Department
Iowa State Police
Jacksonville Police Department
Jefferson County Police Department
Kansas Highway Patrol
Kentucky State Police
Kern County Sheriffs Office
King County Police Department
Lake County Sheriffs Department
Lakeland County Sheriffs Office
Las Vegas Metro Police
Long Beach Police Department
Los Angeles Police Department
Los Angeles Sheriffs Department
Mannatee County Sheriffs Office
Maricopa County Sheriffs Office
Marion County Sheriffs Office
Martin County Sheriffs Office
Maryland State Police
Massachusetts State Police
McKay Security
Memphis Police Department
Mesa Police Department
Metro Dade Police Department
Minnesota State Patrol
Missouri Highway Patrol
Monroe County Sheriffs Office
Nashville Police Department
Nassau County Police Department
Nebraska State Police
New Hampshire State Police
New Jersey State Police
New Mexico State Police
New York City Police Department
New York State Police
Newport Beach Police Department
North Carolina Bureau of Justice
Oakland Police Department
Oceanside Police Department
Ohio State Highway Patrol
Oklahoma Bureau of Investigation
Oklahoma City Police Department
Oklahoma Highway Patrol
Omaha Police Department
Onondaga County Sheriffs Department
Ontario Police Department
Orange County Sheriffs Office
Oregon State Police
Osceola County Sheriffs Office
Pasadena Police Department
Pasco County Sheriffs Office











Pennsylvania State Police
Philadelphia Police Department
Phoenix Police Department
Pima County Sheriffs Department
Pinellas County Sheriffs Office
Polk County Sheriffs Office
Prince George County Sheriffs Department
Puerto Rico Police Department
Riverside Police Department
Sacramento County Sheriffs Department
Sacramento Police Department
Saitama Police Department, Japan
Salt Lake County Sheriffs Department
San Bernardino County Sheriffs Department
San Diego County Sheriff
San Diego County Sheriffs Department
San Jose Police Department
Santa Barbara County Sheriffs Department
Seminole County Sheriffs Office
Sonoma County Sheriffs Department
South Carolina Law Enforcement Division
South Carolina Wildlife Division
Spartanburg County Sheriffs Department
St. Louis County Police Department
St. Lucie County Sheriffs Office
Suffolk County Police Department
Tampa Police Department
Tennessee Department of Public Safety
Texas Department of Public Safety
Topeka Police Department
Travis County Sheriffs Office
Tulsa Police Department
Tuscaloosa Police Department
Tucson Police Department
Utah State Police
Vancouver Police Department
Ventura County Sheriffs Department
Virginia Beach Police Department
Virginia State Police
Volusia County Sheriffs Department
West Virginia State Police
Westchester County Police Department
Wichita Police Department

BROADCAST CUSTOMERS

KABC
KARE
KATU
KCAL
KCBS
KCCI
KCNC
KCOP
KCRA
KDFW
KEYE
KGO
KGTU
KGW
KING
KLAS
KMBC
KMEX
KMGH
KNBC
KNXV
KOB
KOIN
KOMO
KRIV
KPIX
KPRC
KPTV
KRON
KRQE
KSAT
KSAZ
KSTP
KTNV
KTTV
KTVT
KUTV
KXAS
KYW
WABC
WAVY

WBAL
WBZ
WCBS
WCCO
WCNC
WCPO
WCVB
WDAF
WDIV
WESH
WFAA
WFLA
WFLD
WGN
WHAS
WHDH
WISH
WITI
WJBK
WJW
WJXX
WJZ
WLBT
WLKY
WNEP
WNYW
WOIO
WPIX
WPLG
WPTV
WPTY
WPVI
WRTV
WSOC
WTTG
WTVU
WTVJ
WTVT
WTFX
WXIX

product SELECTION GUIDE

		APPLICATIONS																		
		Search & Rescue (SAR)	Reconnaissance	Drug Interdiction	Surveillance	Anti-Surface Warfare (ASUW)	Anti-Submarine Warfare (ASW)	Combat Search & Rescue (CSAR)	Coastal Patrol	Navigation & Situational Awareness	Pollution Control	Electronic News Gathering	UAV Remote Imaging	Law Enforcement	Targeting	Fire Mapping	Public Utility Surveillance	Disaster Response	Anti-Piracy	Vessel Traffic Monitoring
PRODUCTS																				
	Star SAFIRE I	●	●	●	●	●	●	●	●	●	●			●		●		●	●	●
	Star SAFIRE II	●	●	●	●	●	●	●	●	●	●		●	●				●	●	●
	BriteSTAR	●	●	●	●	●	●			●			●		●					
	STAR Q	●	●	●	●	●	●	●	●	●	●		●	●		●		●	●	●
	Ultra 7500	●	●	●	●					●	●			●		●	●	●	●	●
	Mark II	●	●	●	●					●	●			●		●	●	●	●	●
	MicroSTAR	●	●	●	●	●	●	●	●				●			●	●			●
	SeaFLIR	●	●	●	●	●		●	●	●	●			●				●	●	●
	UltraFORCE II	●	●	●	●					●	●					●		●	●	●
	UltraMedia III/LE II		●	●	●				●			●		●				●		

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AIRBORNE SYSTEMS

GROUND SYSTEMS

MARITIME SYSTEMS

SECURITY SYSTEMS