



# AIRBORNE SOLUTIONS

ISRT / Intelligence, Surveillance,  
Reconnaissance, Targeting

AIRBORNE SOLUTIONS

# GLOBALY DEPLOYED GLOBALY PROVEN

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For over 40 years, FLIR has proven it can rise to the challenge in every austere climate and tactical environment the world has to offer.

This is a combat-proven heritage of durability, performance, and unrivaled support that you can trust, regardless of your mission.

Terrain. Weather. Mission Requirements. Hostile actions. All these factors make airborne missions a relentless and evolving mix of actions and reactions, requiring persistent attention.

Nothing is more critical than keeping your eyes ahead of the aircraft – than clear vision. It's the one place you cannot compromise, so FLIR doesn't.







AIRBORNE SOLUTIONS

# DECISION SUPPORT FOR YOUR MISSION

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- ▲ Public Safety
- ▲ Maritime Patrol
- ▲ ISRT
- ▲ Force Protection
- ▲ Targeting
- ▲ Border Surveillance
- ▲ Search & Rescue









AIRBORNE SOLUTIONS

# MISSION HIGHLIGHTS



## SEARCH AND RESCUE MISSION

The Norwegian Search and Rescue Service program operates a fleet of Leonardo AW101 helicopters in a harsh and unforgiving climate that extends above the Arctic Circle. This poses a formidable challenge to a SAR service. The men and women of the Norwegian Coast Guard routinely have only minutes to engage and locate persons in distress during their search and rescue missions in the frigid waters off Norway.



## TARGETING MISSION

US Marine Corps Huey's have used FLIR Systems as an ISR and Targeting sensor since the first Gulf war. First utilizing a legacy FLIR 2000 in the battle of al Khafji, the Marines now rely on FLIR's state-of-the-art targeting systems for missions around the world.



## LAW ENFORCEMENT MISSION

For over 30 years FLIR has led the way in providing state-of-the-art law enforcement sensors for the Airborne Law Enforcement community around the world. FLIR pioneered the first stabilized EO/IR systems for law enforcement and continues to provide cutting edge technology today.





ITAR-FREE SURVEILLANCE SOLUTIONS

# UltraFORCE

Long Range & Compact

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With large gimbal performance using low weight construction, the UltraFORCE 275 and 350 gimbals offer SWaP advantages. Their all-European content and proven operational performance make them the ideal choice for airborne programs around the world.







LONG RANGE MULTI-SENSOR  
GYRO-STABILIZED SURVEILLANCE SYSTEM

## UltraFORCE 350-HD

With large gimbal-level performance at only 28 kg, the UltraFORCE 350-HD's trusted multi-spectral HD imaging performance is optimized for airborne homeland security, combat, patrol, surveillance, reconnaissance, and search and rescue programs.

### Features

- High Definition Video
- MWIR
- Color EO
- Spotter Scope Color EO
- Fully integrated GPS/IMU Target Location
- Laser Rangefinder



COMPACT MULTI-SENSOR  
GYRO-STABILIZED SURVEILLANCE SYSTEM

## UltraFORCE 275-HD

Extremely low SWaP makes the UltraFORCE 275-HD the optimal choice for weight, power and footprint constrained platforms. The system delivers multi-spectral HD imaging performance for airborne homeland security, combat, patrol, surveillance, reconnaissance, and search and rescue programs.

### Features

- High Definition Video
- MWIR
- Color EO
- Spotter Scope Color EO
- Fully integrated GPS/IMU Target Location
- Laser Rangefinder



SURVEILLANCE SOLUTIONS

# Star SAFIRE

MIL-SPEC High Performance

Since the 1990s, Star SAFIRE systems have pioneered long-range EO/IR sensors. Beginning with the first Star SAFIRE system, FLIR has utilized a spiral development strategy to ensure customers are able to easily upgrade with the advancements in technology.



SINGLE LRU HD EO/IR  
IMAGING SYSTEM

## Star SAFIRE 380-HD

The FLIR Star SAFIRE 380-HD provides superior image stabilization, ultra-long- range imaging performance, and true metadata embedded in the digital video. Featuring internal navigation for precise targeting, a MWIR thermal imager, optional HD color and lowlight cameras, and multiple laser payload options.

### Features

- High Definition Video
- SWIR/MWIR
- Color EO
- Color EO Spotter Scope
- Moving Target Indicator (MTI)
- Integrated Video Tracker
- Fully integrated GPS/IMU Target Location
- Laser Rangefinder
- Laser Pointer
- Laser Illuminator
- Turret weight <100 lbs. (45.4 kg)







SWAP-C SINGLE LRU HD EO/IR  
IMAGING SYSTEM

## Star SAFIRE 380-HDc

The Star SAFIRE 380-HDc delivers unparalleled stabilized HD multi-spectral imaging and MERLIN® intelligence functions in a compact, low-profile package. It's designed to maximize ground clearance in rotary aircraft without sacrificing capability and performance.

### Features

- High Definition Video
- Continuous Zoom SWIR/MWIR
- Continuous Zoom Color EO
- Color EO Spotter Scope
- Low Light EO (EMCCD)
- Moving Target Indicator (MTI)
- Integrated Video Tracker
- Fully integrated GPS/IMU Target Location
- Laser Rangefinder
- Laser Pointer
- Laser Illuminator
- Turret weight <65lbs (29.5 kg)



FULL-HD MULTI-SPECTRAL  
TARGETING SYSTEM

## Star SAFIRE 380-HLD

The FLIR Star SAFIRE 380-HLD provides superior image stabilization, ultra long-range imaging performance, and true metadata embedded in digital video, all with laser designation (LD) and rangefinder. The Star SAFIRE 380-HLD also provides the ability to operate continuously in all conditions.

### Features

- High Definition Video
- SWIR/MWIR
- Color EO
- Color EO Spotter Scope
- Moving Target Indicator (MTI)
- Integrated Video Tracker
- Fully integrated GPS/IMU Target Location
- Laser Designator
- Laser Rangefinder
- Laser Pointer
- Laser Illuminator
- Turret weight <110 lbs (49.9 kg)





## Advanced Image Aiding Product Upgrade

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The new 380X skillet upgrade reduces operator workload for faster, smarter decision support and features customizable configurations for multi-tile video management and visual user interface, and touchscreen and streaming tablet support. It also features an integrated moving target indicator (MTI) and de-scintillation filter that removes atmospheric effects to reveal clearer, sharper detail from greater distances.



## INTELLIGENT IMAGING

The 380X is a hardware, firmware, and software upgrade to support advanced image aiding features for our globally renowned Star SAFIRE® 380 gimbal systems, including Star SAFIRE 380-HD and 380-HDc.

### Features



#### MULTIPLE VIDEO MANAGEMENT

Multi-tile image management allows operator to view multiple video sources simultaneously, including all camera payloads plus external video input.



#### NEW USER INTERFACE

Navigate menus with customizable icon based graphics (GUI) to expedite inputs when needed.



#### BETTER CLARITY

See more details with de-scintillation filter that removes atmospheric effects to reveal fine details otherwise hard to detect.



#### IMPROVED TARGETING

Moving Target Indicator (MTI) helps identify threats earlier and more definitively. Future enhancement includes augmented reality overlays to identify friendly positions and no fire/restricted fire areas.



#### AUGMENTED REALITY (coming April 2021)

AR mapping overlays improve situational awareness depicting mission in the live environment, increasing understanding and expediting better, smarter decisions.



MULTIPLE VIDEO MANAGEMENT /  
MOVING TARGET INDICATOR



NEW GRAPHIC USER INTERFACE



DE-SCINTILLATION FILTER



AR MAPPING OVERLAY  
(COMING APRIL 2021)

TRAINING SOLUTIONS

# FLIRSIM

Virtual System Training Platform

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Developed by MAG Aerospace, FLIRSIM can replicate any real-world scenario or environment on demand to improve safety on live missions.

FLIRSIM is the ideal training platform for procedural and operational tasks.







## VIRTUAL SYSTEM TRAINING PLATFORM

### FLIRSIM

FLIRSIM is a portable, easy to set up and use, all-inclusive system-level training device that provides the functional equivalency of an FAA FTD level 6 simulator for FLIR Star SAFIRE 380 family sensor operators.

Replicates any real-world scenario or environment on demand to improve safety on live missions. Time spent using the FLIRSIM enhances operator mission effectiveness and accomplishment. FLIRSIM delivers direct operational cost savings normally incurred during training.

### Features

- Actual FLIR Hand Controller
  - Same FLIR Hand controller as found in vessels & aircraft
  - Operators form muscle memory on the true button layout
- Transportable and Easy to Use
  - Complete system is self-contained in a rugged case
  - Can be checked as luggage without incurring oversized luggage fees
  - Easily set up anywhere
- Dynamic Scenario Generation
  - Able to train in real world environments
  - Train where you operate
  - Control weather conditions and time of day to immerse and challenge operator



## AMERICAS

FLIR Systems, Inc.  
Corporate Headquarters  
27700 SW Parkway Ave  
Wilsonville, OR 97070  
Office: +1 877.773.3547

FLIR Systems, Inc.  
DC Headquarters  
1201 S. Joyce Street  
Suite C006  
Arlington, VA 22202  
Office: +1 703.682.3400

## EUROPE

FLIR Systems  
2 Kings Hill Avenue - Kings Hill  
West Malling, Kent ME19 4AQ  
United Kingdom  
Office: +44 (0)1732 220 011  
Fax: +44 (0)1732 843 707

FLIR Systems AB  
Antennvägen 6,  
PO Box 737  
SE-187 66 Täby  
Sweden  
Office: +46 (0)8 753 25 00

## MIDDLE EAST

FLIR Systems B.V. - Abu Dhabi  
Wadi Al Fey St.  
Building 60, Office # 302  
New Ministries Exit / Khalifa Park Area  
Abu Dhabi, U.A.E.  
Office: +971 2 666 1561  
e-Fax: +1 503 914 1591

FLIR Systems Saudi Arabia  
Office 127, First Floor  
Akaria Plaza Building, Olaya Street  
Riyadh, 11481, Saudi Arabia  
Office: +966 11 464 5323  
Fax: +966 11 464 0438

## ASIA

FLIR Systems Japan K.K.  
Meguro Tokyu Bldg. 5F,  
2-13-17  
Kami-Osaki, Shinagawa-ku.  
Tokyo, 141-0021, Japan  
Office: +81-3-6721-6648

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