AIRBORNE SOLUTIONS
ISRT / Intelligence, Surveillance, Reconnaissance, Targeting
For over 40 years, Teledyne 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 Teledyne FLIR doesn’t.
AIRBORNE SOLUTIONS

DECISION SUPPORT FOR YOUR MISSION

- Public Safety
- Maritime Patrol
- ISRT
- Force Protection
- Targeting
- Border Surveillance
- Search & Rescue
SEARCH AND RESCUE

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

US Marine Corps Huey’s have used Teledyne 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 the Teledyne FLIR state-of-the-art targeting systems for missions around the world.

LAW ENFORCEMENT

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

ITAR-FREE* SURVEILLANCE SOLUTIONS

LONG RANGE & COMPACT

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.

*ITAR Free – Requires no US export activities
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
- Tightly integrated GPS/IMU Target Location
- Laser Rangefinder
- Laser Pointer
- Laser Illuminator

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

**Star SAFIRE**

**MIL-SPEC HIGH PERFORMANCE**

The 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.

**STAR SAFIRE 380-HD**

**Features**
- High Definition Video
- SWIR/MWIR
- Color EO
- Color EO Spotter Scope
- Integrated Video Tracker
- Fully integrated GPS/IMU Target Location
- Laser Rangefinder
- Laser Pointer
- Laser Illuminator
- Turret weight <100 lbs. (45.4 kg)
The 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
- Low Light EO (EMCCD)
- Integrated Video Tracker
- Fully integrated GPS/IMU Target Location
- Laser Designator
- Laser Rangefinder
- Laser Pointer
- Laser Illuminator
- Turret weight <110 lbs (49.9 kg)
<table>
<thead>
<tr>
<th>Model</th>
<th>Number of LRU's</th>
<th>Weight</th>
<th>TFU Width</th>
<th>TFU Height</th>
<th>Cable Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAR SAFIRE 380-HD</td>
<td>2 - TFU, UHCU</td>
<td>100 LBS (45.4 KG)</td>
<td>15&quot; (380 MM)</td>
<td>18.55&quot; (471.12 MM)</td>
<td>COMMON FOR 380 SERIES</td>
</tr>
<tr>
<td>STAR SAFIRE 380-HDC</td>
<td>2 - TFU, UHCU</td>
<td>65 LBS (29.48 KG)</td>
<td>15&quot; (380 MM)</td>
<td>14.7&quot; (373.41 MM)</td>
<td>MAX LOS HEIGHT COMMON FOR 380 SERIES</td>
</tr>
<tr>
<td>STAR SAFIRE 380-HLD</td>
<td>2 - TFU, UHCU</td>
<td>110 LBS (49.9 KG)</td>
<td>16&quot; (406.4 MM)</td>
<td>18.55&quot; (471.12 MM)</td>
<td>MAX COMMON FOR 380 SERIES</td>
</tr>
<tr>
<td>STAR SAFIRE 380X-HD</td>
<td>2 - TFU, UHCU</td>
<td>103 LBS (46.8 KG)</td>
<td>15&quot; (380 MM)</td>
<td>18.55&quot; (471.12 MM)</td>
<td>COMMON FOR 380 SERIES</td>
</tr>
<tr>
<td>STAR SAFIRE 380X-HDC</td>
<td>2 - TFU, UHCU</td>
<td>68 LBS (30.84 KG)</td>
<td>15&quot; (380 MM)</td>
<td>14.7&quot; (373.41 MM)</td>
<td>MAX LOS HEIGHT COMMON FOR 380 SERIES</td>
</tr>
<tr>
<td>Star SAFIRE 380X-HLD</td>
<td>2 - TFU, UHCU</td>
<td>113 lbs (51.26 Kg)</td>
<td>16&quot; (406.4 mm)</td>
<td>18.55&quot; (471.12 MM)</td>
<td>MAX COMMON FOR 380 SERIES</td>
</tr>
<tr>
<td>UltraFORCE 275-HD</td>
<td>2 - TFU, UHCU/ handcontroller</td>
<td>35 lbs (16Kg)</td>
<td>11&quot; (275mm)</td>
<td>15&quot; (379MM)</td>
<td>COMMON FOR UF SERIES</td>
</tr>
<tr>
<td>UltraFORCE 350-HD</td>
<td>2 - TFU, handcontroller</td>
<td>&lt; 67 lbs (30 kg)</td>
<td>14&quot; (350 mm)</td>
<td>19.4&quot; (485 MM)</td>
<td>COMMON FOR UF SERIES</td>
</tr>
<tr>
<td>-------------------</td>
<td>---------------------</td>
<td>---------------------</td>
<td>--------------------</td>
<td>---------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>HD INFRARED</td>
<td>HD COLOR EO</td>
<td>ZOOM LLTV</td>
<td>SHORT WAVE IR</td>
<td>LASER RANGEFINDER, POINTER, &amp; ILLUMINATOR</td>
<td>LASER DESIGNATOR</td>
</tr>
<tr>
<td>IMAGE ENHANCE</td>
<td>INTERNAL NAVIGATION SYSTEM</td>
<td>SERIAL TYPE A 422</td>
<td>ETHERNET INTERFACE</td>
<td>EMBEDDED AUTOTRACKER</td>
<td>STANAG 4609 METADATA</td>
</tr>
<tr>
<td>DE-SCINTILLATION FILTER</td>
<td>MOVING TARGET INDICATOR (MTI)</td>
<td>TILED VIDEO DISPLAYS</td>
<td>VIRTUAL TARGET MARKING</td>
<td>IMPORTABLE AUGMENTED REALITY OVERLAYS</td>
<td>MOVING MAP AUGMENTED REALITY OVERLAY</td>
</tr>
<tr>
<td>EXTERNAL VIDEO INPUT FOR TILE DISPLAY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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, 380-HDc and 380-HLD.

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.

MULTIPLE VIDEO MANAGEMENT / MOVING TARGET INDICATOR

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.

BETTER CLARITY

See more with de-scintillation filter which can remove atmosphere obscurants to reveal fine details otherwise hard to detect, enabling operators to make faster, smarter decisions.

AUGMENTED REALITY (coming soon)

AR mapping overlays improve situational awareness depicting mission in the live environment, increasing understanding and expediting better, smarter decisions.
Utilizing industry-leading simulator providers, 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.
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 Star SAFIRE 380 family sensor operators.

Developed by MAG Aerospace, FLIRSIM 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 Teledyne FLIR Hand Controller**
- Same Teledyne 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
27700 SW Parkway Ave
Wilsonville, OR 97070

EUROPE
2 Kings Hill Avenue - Kings Hill
West Malling, Kent ME19 4AQ
United Kingdom
Antennvägen 6,
PO Box 737
SE-187 66 Taby
Sweden

MIDDLE EAST
Wadi Al Fey St.
Building 60, Office # 302
New Ministries Exit / Khalifa Park Area
Abu Dhabi, U.A.E.
Office 127, First Floor
Akaria Plaza Building, Olaya Street
Riyadh, 11481, Saudi Arabia

ASIA
Meguro Tokyu Bldg. 5F, 2-13-17
Korni-Ôsaki, Shinagawa-ku.
Tokyo, 141-0023, Japan

For more information contact:
surveillance_sales@teledyneflir.com

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. ©2021 Teledyne FLIR LLC. Specifications are subject to change.

Airborne_Brochure 21-0805 - Updated 12/22/21

www.teledyneflir.com