



STAR SAFIRE® HD FAMILY

THE FIRST TRUE FAMILY OF HIGH DEFINITION IMAGING SYSTEMS



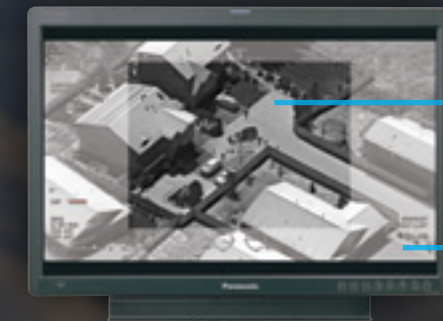
FAMILY OF HIGH DEFINITION IMAGING SYSTEMS

SEE THE WHOLE PICTURE

At FLIR, when we say Real HD, we mean it. All our HD cameras have native, high definition digital components and outputs, and we maintain that fidelity throughout the system. FLIR doesn't compress, resize, or scale HD imagery, neither is the data file converted to another format. The HD imagery stays digital from its capture all the way to the output – same resolution, uncompressed, clear and pristine the entire way through. Accept nothing less, because it's not just your job, it's your life.

FULL HD RESOLUTION VS. STANDARD DEFINITION

With Real HD components throughout our HD thermal imaging systems, users have more pixels on target, providing greater range and better overall performance.



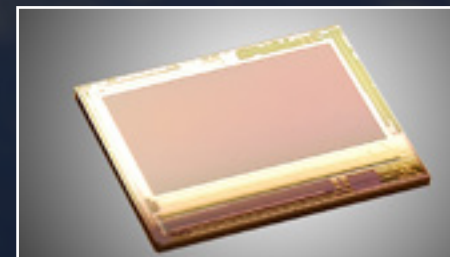
What you see in Standard Definition

What you are missing without High Definition



HD OPTICS

Real HD thermal imagery begins with the optics. FLIR's in-house optics and coatings capabilities result in significantly superior performance with lens resolving capabilities exceeding 200 LP/mm - more than enough for even the next generation of Advanced-HD resolutions.



HD DETECTOR

Anything less than a 640x512 focal plane array (with optical microscanning) and 1280 x 720 resolutions is not Real HD quality. By leveraging our internally-developed, industry-leading IR Focal Plane Arrays (FPA), in both 640x512 (microscanned) and full 1280x720 formats, FLIR maintains total quality control throughout the entire optical path.



HD ELECTRONICS

Image processing is the next critical step in delivering an exceptional Real HD image. Our High-Definition imagers make extensive use of Digital Signal Processing (DSP) engines and high capacity Field Programmable Gate Arrays (FPGA) to provide, low-latency, real-time HD image processing performance, and flexibility for upgrades and enhancements.

INNOVATIVE COOLING

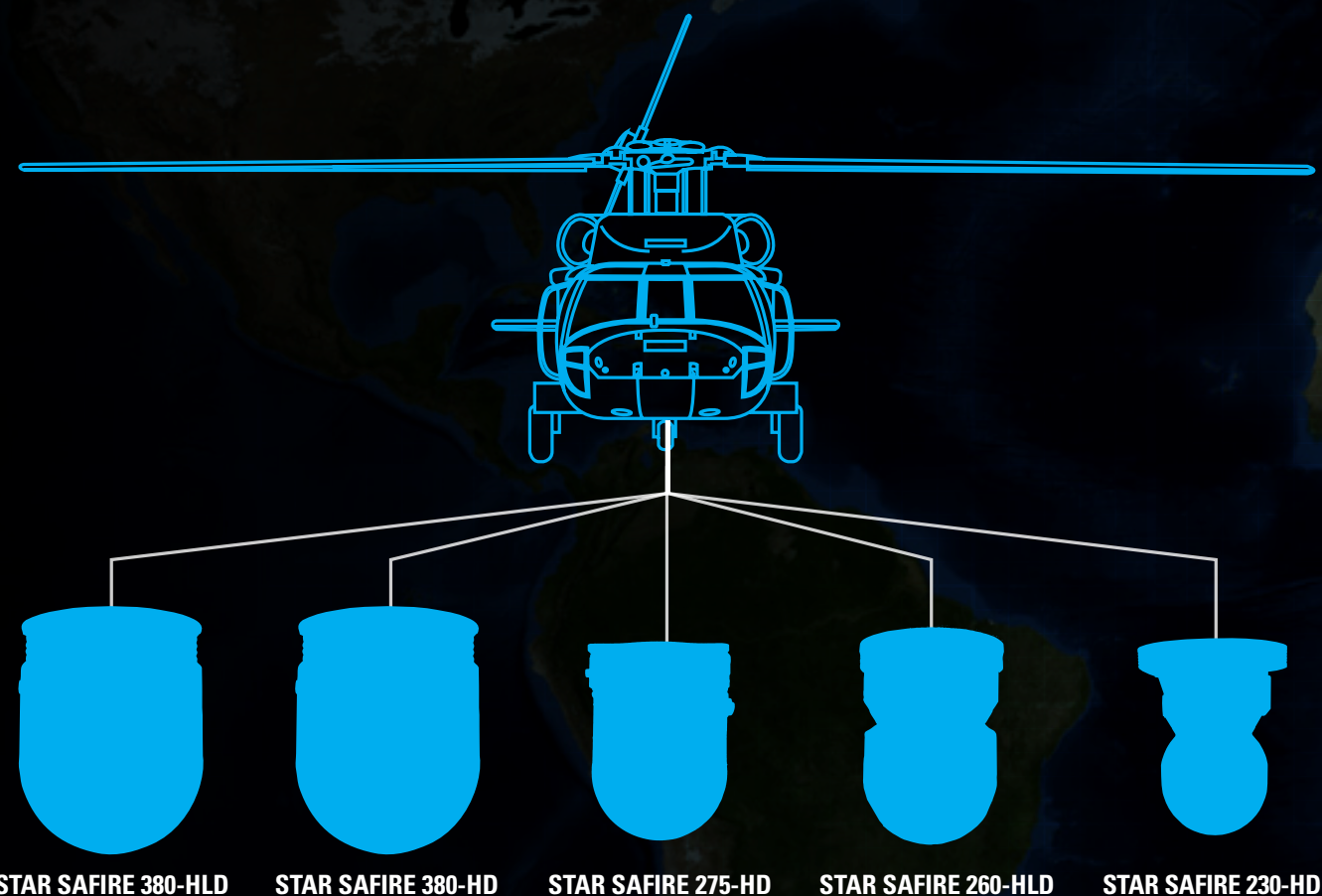
Uncompressed, native HD video streaming utilizes a very high data rate. Higher data rates and much more powerful processing electronics, inevitably generates more heat within the system. FLIR's 'Integrated Cooling' allows you to operate safely at or beyond full MIL temp range without external cooling, shut-downs or monitoring concerns.

A COMMON CONNECTION

FOR AN UNCOMMON FAMILY

COMMON INSTALLATION

Each product within the Star SAFIRE HD Family shares the same installation hardware, and the same user interface hardware and software. No matter which system is ultimately chosen, they will all easily install and operate. The FLIR Common Interface makes this possible.



SINGLE LRU CONFIGURATIONS

Each product in the Star SAFIRE HD Family is available in a single LRU configuration. These systems all eliminate the need for external electronics or junction boxes for complete ease of installation.

COMMERCIAL STANDARDS

All turret-to-aircraft interfaces are based on commercially available standards such as SMPTE 292M, Ethernet, ARINC 419/429, RS-232/422/485, MIL-STD-704D and MIL-STD-1553.

COMMON CABLES, CONTROL & GUI

COMMERCIALLY AVAILABLE CONNECTORS & WIRING

The common connectors and wiring are all commercially available items, i.e. MIL-D-38999 Series III connectors, and common aircraft standard wiring loom materials.



FLIR COMMON INTERFACE

Eliminating proprietary interface cabling, the FLIR Common Interface relies upon commercial interface standards, connectors and wiring. This simplifies installation between family systems, exterior systems (aircraft power, video display, recording devices, controllers) and other devices that utilize commercial/industrial standards (moving maps, nav systems, radars, GPS, etc.).



STAR SAFIRE HD FAMILY



Star SAFIRE® 380-HLD
The Only All-Digital,
Full HD Designation System



Star SAFIRE® 380-HD
The Only All-Digital,
Full HD System



Star SAFIRE® 275-HD
The All-European
HD System

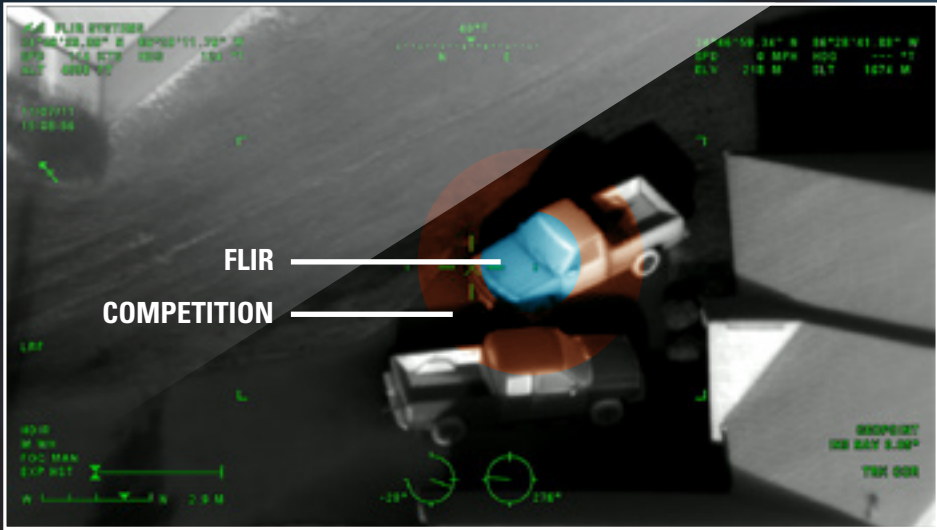


Star SAFIRE® 260-HLD
The Most Compact
HD Designator



Star SAFIRE® 230-HD
The Most Compact
HD Multisensor

PRECISION LASER DESIGNATION



Higher divergence systems over-spill intended targets. FLIR Laser Designation stays on target.

LASER BY FLIR

FLIR's High power, long range Laser Designation products are based on proven, fielded technology. Our diode-pumped laser technology delivers more pulse energy in a tighter beam, with higher reliability than ever before available. Both US and NATO munitions coding are fully supported and validated. Our FLIR-grown laser crystal materials and components are used in our laser pointer, illuminator, rangefinder and designator payloads. FLIR is also a leading supplier of the highest-quality laser optical components for high-power and space applications.

ACCURATE & PRECISE TLA

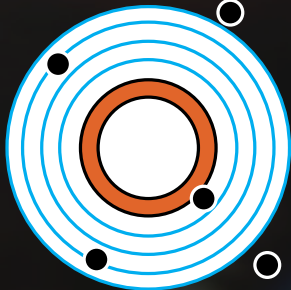
- Proven 2-5x more accurate & precise targeting
- "Tightly-coupled" nav subsystem for robust & reliable flight-to-flight performance
- Requires no extra support from platform reducing installation complexity
- Requires no pre-flight or in-flight calibration procedures
- Delivers highly accurate target coordinate generation

TARGET ACCURACY COMPARISON



FLIR

We point precisely to the right (accurate) location.



COMPETITION

The competition points precisely to the wrong location or is imprecise at the right location.



CORPORATE HEADQUARTERS

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1.800.727.3547

WASHINGTON, D.C.

FLIR Systems, Inc.
2800 Crystal Drive, Suite 330
Arlington, VA 22202
USA
PH: +1.703.416.6666

ALPHARETTA

FLIR Systems, Inc.
5940 Cabot Parkway, Suite 100
Alpharetta, GA 30005
USA
PH: 1.800.762.4796

BOSTON

FLIR Systems, Inc.
25 Esquire Road
North Billerica, MA 01862
USA
PH: +1.800.464.6372

HUNTSVILLE

FLIR Systems, Inc.
675 Discovery Drive
Suite 103
Huntsville, AL
USA
PH: +1.256.325.3547

PITTSBURGH

FLIR Systems, Inc.
Freeport, PA
USA
PH: +1.724.295.2880

STILLWATER

FLIR Systems, Inc.
1024 S. Innovation Way
Stillwater, OK 74074
USA
PH: +1.405.372.9535

EUROPE

FLIR Systems Ltd.
2 Kings Hill Avenue
West Malling, Kent
ME19 4AQ
United Kingdom
PH: +44.1732.220011

CANADA

FLIR Systems Ltd.
3440 Francis-Hughes
Suite 120
Laval, QC H7L 5A9
Canada
PH: +1 450.663.4554

SWEDEN

FLIR Systems AB
Antennvägen 6
187 66 Täby
Sweden
PH: +46.8.753.2500

MIDDLE EAST

FLIR Systems Middle East
FZCO
Unit C-13
Dubai Airport Free Zone
P.O. Box 54262
Dubai
United Arab Emirates
PH: +9714.299.6898

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited.

©2012 FLIR Systems, Inc. Specifications are subject to change. Check website: www.FLIR.com

www.FLIR.com