

NEW COMMON
INTERFACE

Star SAFIRE® 380-HLD

Stabilized Multisensors

SINGLE LRU EO/IR IMAGING SYSTEM
WORLD'S FIRST AND ONLY FULL HD SYSTEM
FULL SPECTRUM IMAGING
FLIR COMMON INTERFACE STANDARD
VIDEO METADATA



APPLICATIONS

- COIN/IW
- CAS
- FID
- ISR
- SAR
- UAS/RPA
- FORCE PROTECTION

FEATURES

- Single LRU Full HD System
- Full 1080P HD-SDI digital performance
- Second generation Full-HD
- Laser Designation
- Embedded Metadata
- SWIR band sensor
- Full color digital image blending
- 120x zoom ratio
- Enhanced standard definition video
- Optimized usability
- Multiple laser payloads
- Simplified common interface standard
- Fully hardened for military fixed-wing and helicopter operations

BENEFITS

- The only all-digital, Full HD system in a single LRU for ease of installation and integration; no junction boxes required
- High bandwidth HD-SDI (aka SMPTE-292M) video channels with symbology overlays comply with all government HD standards, providing full 1080P, 720P and other formats
- Full high definition mega-pixel resolution imagery from all sensors for superior range and imaging performance
- Combines long range ISR with targeting capabilities for real-time situation awareness & ability for tactical response
- Sensor and geospatial data is fully embedded within the digital video stream – no need for dedicated ports or external boxes
- See more than others can see using the optional SWIR short wave infrared payload for expanded multi-spectral day and night imaging
- Combine important spectral information from IR & color or SWIR sensors for enhanced results; extremely valuable when limited to single video channel downlinks
- High-magnification optics extend detection range to the horizon without sacrificing wide FOV situational awareness
- Analog video installations will benefit from the HD's high-resolution digital sensors and high-quality optics
- View and track ground locations using the fully-embedded IMU; follow moving targets with the multi-mode Autotracker
- Covertly illuminate wide areas, point out distant targets to other forces, and determine target distance and location
- Provides standardized wiring to all HD turrets in this family; and to external systems, making this family of systems completely interchangeable and interoperable
- All-weather design is qualified to the most demanding requirements of MIL-STD-810 and 461





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THERMAL IMAGER

Sensor type	640 x 512 InSb MWIR FPA (standard) 1280 x 720 InSb MWIR FPA (optional)
Resolution	720/1080 HD and NTSC/PAL
Wavelength	3-5 µm response
FOVs	30° to 0.25° (with standard FPA)
Zoom ratio	120x

COLOR HIGH DEFINITION CAMERA (OPTIONAL)

Sensor type	Color CCD, Progressive scan
Resolution	720/1080 HD and NTSC/PAL
FOVs	29° to 0.25°
Zoom ratio	120x

SWIR SHORT WAVE IR CAMERA (OPTIONAL)

Sensor type	InGaAs; extended NIR sensitivity optional
Resolution	720/1080 HD and NTSC/PAL
FOVs	28° to 0.25°

LASER PAYLOADS (OPTIONAL)

Designator	1.064 µm, up to 20 hz, Class 4
Rangefinder	Up to 25 km, Class 1 (eyesafe)
Illuminator	1 W or 2 W, Class 4
Pointer	100 mW, Class 3b

DIGITAL IMU/GPS

Tightly-coupled, fully-integrated, IMU and GPS for geo-pointing and target geo-location capability

SYSTEM PERFORMANCE

System type	6 axis stabilization
Az. coverage	360° continuous
El. coverage	+30° to -120°
Envelope	405 KIAS, 0-50,000 ft

SYSTEM INTERFACES

Digital video	SMPTE 292M/424M
Analog video	NTSC/PAL
Data and Control	RS-232, RS-422, ARINC 419/429, MIL-STD-1553B, Ethernet
Metadata	MISP compliant STD9716 & STD0902.1, STANAG 4609, SMPTE 291M/RP214

ENVIRONMENTAL

Standards	MIL-STD-810E and MIL-STD-461F
Operating temperature	-40°C to 55°C

POWER REQUIREMENTS

Voltage	22-29 VDC (per MIL-STD-704E)
Consumption	280 W (450 W max)

DIMENSIONS, WEIGHT & MOUNTING

Single LRU	15.0" x 18.5" (380 mm x 475 mm)
TFU Weight	<105 lbs (<48 kg)
Mounting	Compatible with existing SAFIRE installations

OTHER OPTIONS & ACCESSORIES

Navigation/Radar Interfaces, Quick-Disconnect Mounts, High Resolution Displays and Recorders, Moving Map Systems, High-Definition Downlinks
Reg. US Patent 7,474,451 and 7,264,220, other patents pending

CORPORATE HEADQUARTERS

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
PH: +1 800.727.3547

BOSTON

FLIR Systems, Inc.
25 Esquire Road
North Billerica, MA 01862
PH: +1 866.404.9920

HUNTSVILLE

FLIR Systems, Inc.
Huntsville, AL USA
PH: +1 256.325.3547

PITTSBURGH

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

WASHINGTON, D.C.

FLIR Systems, Inc.
2800 Crystal Drive, Suite 330
Arlington, VA 22202 USA
PH: +1 703.416.6666

EUROPE

FLIR Systems Ltd.
West Malling, Kent
United Kingdom
PH: +44.1732.220011

CANADA

FLIR Systems Ltd.
Burlington, ON
Canada
PH: +1 800.613.0507

SWEDEN

FLIR Systems AB
Täby, Sweden
PH: +46.8.753.2500

MIDDLE EAST

FLIR Systems Middle East, FZCO
Dubai Airport Free Zone
PH: +9714.299.6898

www.flir.com



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