

NEW COMMON  
INTERFACE

Stabilized Multisensors

# Star SAFIRE® 380-HD

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



## APPLICATIONS

ISR  
SAR  
MARITIME PATROL  
BORDER PATROL  
UAVs  
FORCE PROTECTION

## FEATURES

Single LRU Full HD System  
Full 1080P HD-SDI digital performance  
Second generation Full-HD  
Embedded Metadata  
SWIR band sensor  
High def color in low light  
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  
Sensor and geospatial data is fully embedded within the digital video stream – eliminates need for dedicated separate ports or external 'black boxes'  
See more than others can see using the optional SWIR short wave infrared payload for expanded multi-spectral day and night imaging  
Extend full color imaging into the dark with full high definition clarity and with expanded wide dynamic range  
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





# Star SAFIRE® 380-HD

### THERMAL IMAGER

Sensor type	640 x 512 InSb MWIR FPA (standard) 1280 x 720 InSb MWIR FPA (optional) 640 x 512 QWIP LWIR 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-TV, Progressive scan
Resolution	720/1080 HD and NTSC/PAL
FOVs	29° to 0.25°
Zoom ratio	120x

### COLOR LOW LIGHT HIGH DEFINITION CAMERA (OPTIONAL)

Sensor type	Color NIR CCD, Progressive Scan
Resolution	720/1080 HD and NTSC/PAL
FOVs	55° to 1.5°

### 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)

Rangefinder	Up to 25 km, Class 1 (eyesafe)
Illuminator	1 W or 2 W, Class 4
Pointer	100 mW, Class 3b

### DIGITAL IMU/GPS+ (OPTIONAL)

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°
Airspeed	405 KIAS

### 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
Video Metadata	MISP 5.5, STANAG 4609 & STANAG 4586 compliant

### 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	200 W (650 W max)

### DIMENSIONS, WEIGHT & MOUNTING

Single LRU	15.0" x 18.5" (380 mm x 475 mm)
TFU Weight	<99 lbs (<45 kg)
Mounting	Compatible with existing SAFIRE installations

### OTHER OPTIONS & ACCESSORIES

Longwave IR (LWIR) imager, Automatic Video Tracker, 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: +1 800.464.6372

### 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/GS](http://www.flir.com/GS)



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