

**NEW COMMON  
INTERFACE**

Stabilized Multisensors

# Star SAFIRE® 380-HLD

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

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