

Extended Range
Extreme Performance



FLIR StarSAFIRE[®]

380-HD

Single LRU EO/IR Imaging System

The FLIR Star SAFIRE 380-HD provides superior image stabilization, ultra long range imaging performance, and true metadata embedded in the digital video. The Star SAFIRE 380-HD is fully hardened for military fixed-wing and helicopter operations so it can operate continuously in all conditions--even while sitting on the tarmac with no airflow

FEATURES

- Single LRU Full HD System
- Full 1080P HD-SDI digital performance
- Third generation Full HD
- Embedded Metadata
- Advanced SWIR band sensor
- High definition low light color
- Full color digital image blending
- 120x zoom ratio
- Optimized usability
- Multiple laser payloads
- Simplified common interface
- 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 – 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 imaging
- Extend full color imaging into the dark with full high definition clarity and with superior area coverage
- 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
- View, track, and mark ground locations using the fully-embedded IMU; follow moving targets with the robust 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 and to external systems in this family; completely interchangeable and interoperable
- All-weather design is qualified to the most demanding requirements of MIL-STD-810 and MIL-STD-461

APPLICATIONS

- ISR
- SAR
- MARITIME PATROL
- BORDER PATROL
- UAS/RPA
- FORCE PROTECTION

StarSAFIRE® 380-HD

Specifications

THERMAL IMAGER	
Sensor type	640 x 512 InSb MWIR FPA (standard) 1280 x 720 InSb MWIR FPA (optional)
Resolution	720p/1080p 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	720p/1080p 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	720p/1080p HD and NTSC/PAL
FOVs	55° to 1.5°
SWIR SHORT WAVE IR CAMERA [OPTIONAL]	
Sensor type	InGaAs
Resolution	720p/1080p 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	150 mW (Class 3b) or 650 mW (Class 4)
DIGITAL IMU/GPS	
Type	Tightly-coupled, fully-integrated, IMU and GPS for geo-pointing and target geo-location capability
SYSTEM PERFORMANCE	
System type	4-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; MISB 2016.1; STANAG 4609
Analog video	NTSC/PAL
Data and control	RS-422, ARINC 429, MIL-STD-1553B, Ethernet
Metadata	MISP ST0601, 0902.1, 9716; STANAG 4609; SMPTE 291M / RP214
ENVIRONMENTAL	
Standards	MIL-STD-810G and MIL-STD-461G
Operating temperature	-40°C to 55°C
POWER REQUIREMENTS	
Voltage	22-29 VDC (per MIL-STD-704E)
Consumption	280 W (350 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	
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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