



SINGLE LRU HD EO/IR IMAGING SYSTEM

Star SAFIRE® 380-HD

The FLIR Star SAFIRE 380-HD provides superior image stabilization, ultra-long range imaging performance, and true metadata embedded in the digital video. Featuring internal navigation for precise targeting, a MWIR thermal imager, optional HD color and low-light cameras, and multiple laser payload options, the system is fully hardened for military fixed-wing and helicopter operations. It can operate continuously in all conditions – even while sitting on the tarmac with no airflow.

HD sensors allow Star SAFIRE 380-HD to detect, recognize, and positively identify targets with pinpoint precision at extreme ranges – capabilities beyond what’s possible with non-HD systems. Mission crews can remain undetected at safe standoff distances while viewing high-resolution imagery in narrow and wide fields of view. With flexible integration options on multiple platforms and a record of proven performance, Star SAFIRE 380-HD is optimal for airborne intelligence, surveillance, reconnaissance, patrol, and search and rescue missions.

FEATURES

SUPERIOR RANGE AND IMAGING

120x-magnification optics extend detection range. Laser payloads covertly illuminate and point out targets and determine distance and location.

SINGLE LRU FULL-HD MULTI-SENSOR IMAGING

The only all-digital, full HD system in a single LRU, it’s easy to install and integrate – no junction boxes required.

FULL DIGITAL IMAGE BLENDING

The system combines HD IR, color, and SWIR spectral information for enhanced results – essential in single video channel downlinks.

PRECISION TARGETING

Tightly coupled navigation delivers accurate CAT 1 robust target coordinate-generation for faster, more confident targeting.

LESS OPERATOR EFFORT REQUIRED

Intelligent, automated operation optimizes tracking and continuously calculates target size, location, speed, and distance.

APPLICATIONS

ISR

SAR

MARITIME PATROL

BORDER PATROL

UAS/RPA

FORCE PROTECTION

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
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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	SMPT 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; SMPT 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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