



## SINGLE LRU HD EO/IR IMAGING SYSTEM

# Star SAFIRE<sup>®</sup> 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 $\mu$ m 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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