



# FULL-HD MULTI-SPECTRAL TARGETING SYSTEM

# Star SAFIRE® 380-HLD

The FLIR Star SAFIRE 380-HLD provides superior image stabilization, ultra long-range imaging performance, and true metadata embedded in digital video, all with laser designation (LD) and rangefinder. The Star SAFIRE 380-HLD also provides the ability to operate continuously in all conditions — even while sitting on the tarmac with no airflow. The world's most widely deployed single LRU for ISR&T missions, the Star SAFIRE 380-HLD provides HD multi-spectral imaging, accurate target location, and laser spot positioning.

Flexible integration options allow an operator to choose a federated approach or a fully integrated approach that enables cross cueing, drives cursor on target, and full mission computer integration. Featuring a SWIR sensor, full-color digital image blending and a 60x zoom ratio, the Star SAFIRE 380-HLD is fully hardened for military fixed-wing and helicopter operations. The system performs in-flight LD alignment for accurate target designation and weapon delivery from maximum stand-off range.

## **FEATURES**

## ALL-DIGITAL, 1080P/720P FULL HD

HD imaging from all sensors feature range performance to enable fewer ISR&T assets to cover larger areas. High-bandwidth HD-SDI video channels include symbology overlays to increase situational awareness.

## SINGLE LRU FOR EASY INSTALLATION AND INTEGRATION

No need for junction boxes or dedicated ports. Sensor and spatial metadata is fully embedded within the digital video stream.

## MULTIPLE LASER PAYLOADS

LD provides real-time situational awareness and precision targeting. Covert illuminator "lights up" wide areas. Rangefinder determines location. Pointer supports tactical response.

# PRECISION TARGETING

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

## LESS OPERATOR EFFORT REQUIRED

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

## **APPLICATIONS**

COIN/IW

CAS

FID

**ISR** 

**CSAR** 

UAS/RPA

FORCE PROTECTION

## SPECIFICATIONS

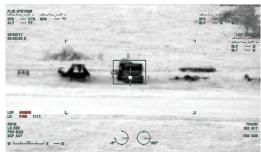
Sensor type	1280 x 720 InSb MWIR FPA (standard)
Resolution	720p/1080p HD and NTSC/PAL
Wavelength	3-5 µm response
FOVs	40° to 0.35°
Zoom ratio	60x
COLOR HIGH DEFINITION	ON CAMERA (OPTIONAL)
Sensor type	Color CCD, Progressive Scan
Resolution	1080p HD and NTSC/PAL
FOVs	30° to 0.25°
Zoom ratio	60x
SWIR SHORT WAVE IR	CAMERA (OPTIONAL)
Sensor type	InGaAs
Resolution	720p/1080p HD and NTSC/PAL
FOVs	33° to 0.28°
Zoom ratio	60x
LASER PAYLOADS (OPT	TONAL)
Designator	1.064 µm, up to 20 hz, Class 4
Rangefinder	Up to 30 km, Class 1 (eyesafe), Class 1M over 2Hz
Illuminator	1 W or 2 W, Class 4
Pointer	150 mW (Class 3b), 650mW (Class 4)
DIGITAL IMU/GPS	
Туре	Tightly-coupled, fully-integrated, IMU and GPS for geo-pointing and target geo-location capability
SYSTEM PERFORMANO	DE CE
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; MISB 2016.1; STANAG 4609
Analog video	NTSC/PAL
Data and control	RS-422, ARINC 429, MIL-STD-1553B, Ethernet
Metadata	MISP ST0601, 0902, 9716; STANAG 4609; SMPTE 291M / RP214
ENVIRONMENTAL	
LIVIIIONVILIVIAL	

POWER REQUIREMENTS	
Voltage	22-29 VDC (per MIL-STD-704F)
Consumption (Steady State)	280W typ (336W max)
DIMENSIONS, WEIGHT & MOUNTING	
Single LRU	15.5" x 18.7" (380 mm x 475 mm)
TFU Weight	110lbs (49.9 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, Moving Target Indicator (MTI) Reg. US Patent 7,474,451 and 7,264,220, other patents pending









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