



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

THERMAL IMAGER	
Sensor type	1280 x 720 InSb MWIR FPA (standard)
Resolution	720p/1080p HD and NTSC/PAL
Wavelength	3-5 μ m response
FOVs	40° to 0.35°
Zoom ratio	60x
COLOR HIGH DEFINITION 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 (OPTIONAL)	
Designator	1.064 μ m, 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	
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; 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	
Standards	MIL-STD-810G and MIL-STD-461F
Operating temperature	-40°C to 55°C

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



AMERICAS

FLIR Systems, Inc.
Corporate Headquarters
27700 SW Parkway Ave
Wilsonville, OR 97070
Office: +1 877.773.3547

FLIR Systems, Inc.
DC Headquarters
1201 S. Joyce Street
Suite C006
Arlington, VA 22202
Office: +1 703.682.3400

EUROPE

FLIR Systems
2 Kings Hill Avenue - Kings Hill
West Malling, Kent ME19 4AQ
United Kingdom
Office: +44 (0)1732 220 011
Fax: +44 (0)1732 843 707

FLIR Systems AB
Antennvägen 6,
PO Box 737
SE-187 66 Täby
Sweden
Office: +46 (0)8 753 25 00

MIDDLE EAST

FLIR Systems B.V. - Abu Dhabi
Wadi Al Fey St.
Building 60, Office # 302
New Ministries Exit / Khalifa Park Area
Abu Dhabi, U.A.E.
Office: +971 2 666 1561
e-Fax: +1 503 914 1591

FLIR Systems Saudi Arabia
Office 127, First Floor
Akaria Plaza Building, Olaya Street
Riyadh, 11481, Saudi Arabia
Office: +966 11 464 5323
Fax: +966 11 464 0438

ASIA

FLIR Systems Japan K.K.
Meguro Tokyu Bldg. 5F,
2-13-17
Kami-Osaki, Shinagawa-ku.
Tokyo, 141-0021, Japan
Office: +81-3-6721-6648



For More Information contact
surveillance_sales@flir.com

www.flir.com
NASDAQ: FLIR

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