



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 120x 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 superior enough to require fewer ISR&T assets to cover the same area of operation. High-bandwidth HD-SDI video channels include symbology overlays that meet government compliance.

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 CAT 1 robust target coordinate-generation for faster, more confident targeting even in degraded GPS conditions.

LESS OPERATOR EFFORT REQUIRED

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

APPLICATIONS

COIN/IW

CAS

FID

ISR

CSAR

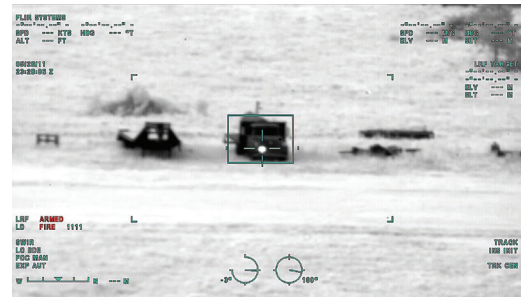
UAS/RPA

FORCE PROTECTION

SPECIFICATIONS

THERMAL IMAGER	
Sensor type	1280 x 720 InSb MWIR FPA (standard)
Resolution	720p/1080p HD and NTSC/PAL
Wavelength	3-5 µm response
FOVs	40° to 0.35°
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
SWIR SHORT WAVE IR CAMERA (OPTIONAL)	
Sensor type	InGaAs
Resolution	720p/1080p HD and NTSC/PAL
FOVs	28° to 0.25°
LOW LIGHT HIGH DEFINITION CAMERA (OPTIONAL)	
Sensor type	Intensified CCD, Progressive Scan
Resolution	720p/1080p HD and NTSC/PAL
FOVs	29° to 0.25°
Zoom ratio	120x
LASER PAYLOADS (OPTIONAL)	
Designator	1.064 µm, up to 20 Hz, Class 4
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, 0-30,000 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 (450 W max)
DIMENSIONS, WEIGHT & MOUNTING	
Single LRU	15.5" x 18.5" (380 mm x 475 mm)
TFU Weight	<105 lbs (<48 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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The World's Sixth Sense®