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.

**FULL-HD MULTI-SPECTRAL TARGETING SYSTEM**

**Star SAFIRE**

**380-HLD**

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**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 μm 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 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), 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, 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

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