

EXTENDED RANGE
EXTREME PERFORMANCE

Star SAFIRE® 380-HD

STABILIZED MULTISENSORS

SINGLE LRU EO/IR IMAGING SYSTEM
WORLD'S FIRST AND ONLY FULL HD SYSTEM
FULL SPECTRUM IMAGING
FLIR COMMON INTERFACE STANDARD
VIDEO METADATA



APPLICATIONS

ISR
SAR
MARITIME PATROL
BORDER PATROL
UAS/RPA
FORCE PROTECTION



FEATURES

Single LRU full HD system
Full 1080P HD-SDI digital performance
Third generation full-HD
Embedded metadata
Advanced SWIR band sensor
High definition low light color
Full color digital image blending
120x zoom ratio
Optimized usability
Multiple laser payloads
Simplified common interface
Fully hardened for military fixed-wing and helicopter operations

BENEFITS

The only all-digital, Full HD system in a single LRU for ease of installation and integration; no junction boxes required
High bandwidth HD-SDI (aka SMPTE-292M) video channels with symbology overlays comply with all government HD standards, providing full 1080P, 720P and other formats
Full high definition mega-pixel resolution imagery from all sensors for superior range and imaging performance
Sensor and geospatial data is fully embedded within the digital video stream – no need for dedicated ports or external boxes
See more than others can see using the optional SWIR short wave infrared payload for expanded multi-spectral imaging
Extend full color imaging into the dark with full high definition clarity and superior area coverage
Combine important spectral information from IR & color or SWIR sensors for enhanced results; extremely valuable when limited to single video channel downlinks
High-magnification optics extend detection range to the horizon without sacrificing wide FOV situational awareness
View, track, and mark ground locations using the fully-embedded IMU; follow moving targets with the robust multi-mode Autotracker
Covertly illuminate wide areas, point out distant targets to other forces, and determine target distance and location
Provides standardized wiring for all HD turrets and to external systems in this family; completely interchangeable and interoperable
All-weather design is qualified to the most demanding requirements of MIL-STD-810 and 461





Star SAFIRE® 380-HD

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 µm 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 4b)

DIGITAL IMU/GPS+

Tightly-coupled, fully-integrated, IMU and GPS for geo-pointing and target geo-location capability

SYSTEM PERFORMANCE

System type	6 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
Analog video	NTSC/PAL
Data and Control	RS-232, RS-422, ARINC 419/429, MIL-STD-1553B, Ethernet
Metadata	MISP compliant STD0601, STD0902.1 & STD9716, STANAG 4609, SMPTE 291M/RP214

ENVIRONMENTAL

Standards	MIL-STD-810E and MIL-STD-461F
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

STACE™
Digital Image Enhancement

GEOLOCK™

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