

SPECIALLY DESIGNED FOR
HELICOPTER APPLICATIONS

Star SAFIRE® 380-HDc

COMPACT MULTISENSORS

SINGLE LRU EO/IR IMAGING SYSTEM
COMPACT & LIGHTWEIGHT
FULL SPECTRUM IMAGING
HD VIDEO W/EMBEDDED METADATA
FLIR COMMON INTERFACE STANDARD



APPLICATIONS

LAW ENFORCEMENT
SEARCH & RESCUE
BORDER PROTECTION
COUNTERDRUG
DISASTER RESPONSE
RECONNAISSANCE
ENVIRONMENTAL MONITORING



FEATURES

Compact & Lightweight Single LRU Design
Full High Def Thermal Imager
Full High Def Color & Low Light
SWIR Short-Wave Infrared sensor
Continuous Zoom HD Optics
Spotter Optics for Extreme Long Range
Dual-View Secondary HD Color camera
Standards Compliant Embedded Metadata
Optimized Usability & Automation
Moving Target Indicator & AR Map Options
Multiple Laser Payload Options
Simplified Common Cable & Mount Interface
Fully hardened for military operations

FEATURES

Designed to maximize ground clearance on rotary aircraft without sacrificing capability and performance
True high-definition resolution infrared sensor captures 4x more detail than other conventional systems
1080P Color performance for the finest detail combined with dedicated low-light sensor for night imaging
Expands imaging capability in degraded visual conditions penetrating through smoke, haze and pollutants
For both EO and IR ensures uninterrupted viewing during critical missions
Extends DRI range rivaling the performance of larger, heavier and costlier systems
Greatly enhance situation awareness by using one HD camera for wide area view while using other cameras for close-in work
Sensor and geospatial data is fully embedded in digital video eliminating need for syncing with separate data ports
Simple "power-on and use" operation minimizes operator workload and training
Add next generation capabilities to increase mission effectiveness
Choose between various range finders, illuminators and target markers / pointers
Fully compatible with existing SAFIRE installations for upgrades and/or mixed fleet operations
Qualified to MIL standards for dependable, all-weather, long-life operation





Star SAFIRE® 380-HDc

HIGH DEFINITION THERMAL IMAGER

Sensor type	1280 x 720 InSb MWIR FPA (standard) 640 x 512 InSb MWIR FPA (optional)
Resolution	720p/1080p HD and NTSC/PAL
Wavelength	3-5 μ m response
FOVs	40° to 1.0° continuous zoom (with standard FPA)

HIGH DEFINITION COLOR CAMERA

Sensor type	Color CCD, Progressive scan
Resolution	720p/1080p HD and NTSC/PAL
FOVs	40° to 1.2° continuous zoom

SECONDARY HIGH DEFINITION COLOR CAMERA (OPTIONAL)

Sensor type	Color CCD, Progressive scan
Resolution	720p/1080p HD and NTSC/PAL
FOVs	30° to 0.25°

LOW LIGHT CAMERA (OPTIONAL)

Sensor type	EMCCD, Progressive Scan
Resolution	720p/1080p HD and NTSC/PAL
FOVs	40° to 1.2° continuous zoom

SWIR SHORT WAVE IR CAMERA (OPTIONAL)

Sensor type	InGaAs
Resolution	720p/1080p HD and NTSC/PAL
FOVs	30° 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)

GEOPOINT

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

System type	4 axis stabilization
Vibration Isolation	Built-in
Az. coverage	360° continuous
El. coverage	+30° to -120°
Envelope	250 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	250 W (350 W max)

DIMENSIONS, WEIGHT & MOUNTING

Single LRU	15.0"x 13.9" (380 mm x 353 mm)
TFU Weight	50lbs (23kg)
Mounting	Compatible with existing SAFIRE installations

OTHER OPTIONS & ACCESSORIES

Navigation/Radar Interfaces, Quick-Disconnect Mounts, High Definition Displays and Recorders, Moving Target Indicator, Moving Map Systems, High-Definition Downlinks

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GEOLOCK™

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