



Star SAFIRE® 380-HDc Situational Deployment

FLIR StarSAFIRE®

380-HDc

Single LRU EO/IR Imaging System

The Star SAFIRE® 380-HDc delivers unparalleled High Definition Multi-Spectral Imaging and powerful MERLIN® Intelligence functions in a compact, low profile package. Commercially Developed and Military Qualified (CDMQ®), the 380-HDc is designed to maximize ground clearance on rotary aircraft.

APPLICATIONS

- Law Enforcement
- Search & Rescue
- Disaster Response
- Border Protection
- Counterdrug
- Reconnaissance
- Environmental Monitoring



KEY FEATURES

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

BENEFITS

- 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

Specifications

High Definition Thermal Imager	
Sensor type	1280 x 720 InSb MWIR FPA progressive global (standard) 640 x 512 InSb MWIR FPA progressive global (optional)
Resolution	720p/1080p HD and NTSC/PAL
Wavelength	3-5 μ m response
FOVs	40° to 1.0° continuous zoom (with standard FPA)
Focal length	25 mm - 500 mm
High Definition Color Camera	
Sensor type	Color CCD, progressive global
Resolution	720p/1080p HD and NTSC/PAL
FOVs	40° to 1.2° continuous zoom
Focal length	8.5 mm - 340 mm
Secondary High Definition Color Camera (Optional)	
Sensor type	Color CCD, progressive global
Resolution	720p/1080p HD and NTSC/PAL
FOVs	25° to 0.2° step zoom
Focal length	16.5 mm - 985 mm
Low Light Camera (Optional)	
Sensor type	EMCCD, progressive global
Resolution	720p/1080p HD and NTSC/PAL
FOVs	40° to 1.2° continuous zoom
Focal length	8.5 mm - 340 mm
SWIR Short Wave IR Camera (Optional)	
Sensor type	InGaAs progressive global
Resolution	720p/1080p HD and NTSC/PAL
FOVs	33° to 0.25° step zoom
Focal length	16.5 mm - 985 mm
Laser Payloads (Optional)	
Rangefinder	Up to 30 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
Analytics & Enhancements (Optional)	
MERLIN® MTI Fully integrated video Moving Target Indicator, single & dual operating modes for land/SAR/maritime	
System Performance	
System type	4-axis stabilization
Vibration isolation	6-axis, built-in
Az. coverage	360° continuous
El. coverage	+16° to -100°
Envelope	250 KIAS, 0-50,000 ft
System Interfaces	
Digital video	SMPTE 292M/424M
Analog video	NTSC/PAL
Data and control	RS-422, ARINC 419/429, MIL-STD-1553B, Ethernet
Metadata	MISB compliant Motion Imagery & Metadata MISP 2015, 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	225 W (350 W max.)
Dimensions (Diameter & Height), Weight & Mounting	
Single LRU	15.0" x 13.9" (380 mm x 353 mm)
TFU Weight	approx. 62lbs (28kg)
Mounting	Compatible with existing SAFIRE installations
Other Options & Accessories	
Navigation/Radar Interfaces, Autotracker, Quick-Disconnect Mounts, High Definition Displays and Recorders, Moving Map Systems, High-Definition Downlinks	



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