



SWAP-C SINGLE LRU HD EO/IR IMAGING

Star SAFIRE® 380-HDc

The Star SAFIRE® 380-HDc delivers unparalleled stabilized HD multi-spectral imaging and MERLIN® intelligence functions in a compact, low-profile package. It's designed to maximize ground clearance in rotary aircraft without sacrificing capability and performance. Low power demand of 200W and lighter weight of only 67 pounds round out the incomparable SWaP-C advantages. Due to its 1,000mm optics, this system also provides 2x-4x greater magnification than other lightweight systems in its class.

The laser pointer and laser illuminator allow operators to covertly "light up" targets or points of interest to coordinating observers wearing night vision goggles or other IR devices. Payload options include a low-light camera, SWIR thermal imager, and laser range-finder, illuminator and pointer. With continuous zoom on EO and IR sensors for uninterrupted viewing paired with its extreme long DRI range, Star SAFIRE 380-HDc is optimal for airborne reconnaissance, patrol and search and rescue missions.

FEATURES

SIZE, WEIGHT, POWER & CLEARANCE (SWAP-C) ADVANTAGE

At only 67 pounds, it minimizes balance concerns and maximizes mounting options. Its 10" profile supports safer off-field landing. 200W power reduces demand.

FULL-HD IMAGING

True HD IR and color cameras with continuous zoom capture finest details. Low-light night imaging sensor and SWIR penetrate obscurants.

OPTIMIZED USABILITY AND COMPATIBILITY

Simple "power-on and use" operation. Common cable/mount interface adapts to existing SAFIRE installations for upgrades and mixed-fleet operations.

PRECISION TARGETING

Tightly coupled "geopoint" navigation automatically points and steers sensors to track targets even in conditions where GPS coverage is degraded or masked.

LESS OPERATOR EFFORT REQUIRED

Intelligent, automated operation optimizes tracking and continuously calculates size, location, speed, and distance of multiple targets or points of interest.

APPLICATIONS

RECONNAISSANCE

SURVEILLANCE

MILITARY POLICE SECURITY

FORWARD OBSERVATION

FORCE PROTECTION

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 µm 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
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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
EI. 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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