



COMPACT MULTI-SPECTRAL HD AIRBORNE TARGETING SYSTEM

Star SAFIRE[®] 380-HLDc

The Star SAFIRE 380-HLDc provides an unmatched “SWaP-T” advantage – Size, Weight and Power plus true Targeting capabilities – for defense applications demanding long-range performance in a lightweight sensor package. It’s specifically tailored to excel in locating and engaging targets at maximum ranges under extreme rotary aircraft flight conditions. Its shorter size brings large system capabilities to smaller rotor-wing aircraft such as light attack helicopters. Imaging and LD performance are unrivaled for a system its size.

While its shorter size is optimal for small aircraft with low ground clearance, the fact that it’s lightweight accommodates use of a full crew complement, increased armament or fuel load, or up-armor capability without sacrificing range. Featuring a full HD MWIR sensor, HD 1080p color cameras, high-magnification optics, multiple laser payload options and an optional SWIR sensor for LD spot imaging in degraded visual conditions, the Star SAFIRE 380-HLDc gives light attack helicopters uncompromising ISR&T performance.

FEATURES

COMPACT AND LIGHTWEIGHT SINGLE LRU

The only targeting system designed to maximize ground clearance and with the range performance to support precision guided munitions (PGMs).

FULL-HD THERMAL & EO IMAGING

True HD IR with high-magnification optics captures 4x more detail than conventional systems. The 1080p color camera helps obtain Positive ID at increased ranges.

MULTIPLE LASER PAYLOADS

Precision LD for targeting SAL-guided munitions and spot tracking/decoding for detecting and discriminating lasers and illuminated targets.

AUTOMATED IN-FLIGHT BORESIGHTING

Automatically align imaging sensors and LD after takeoff while en route to target to ensure accurate weapon delivery.

SWIR LD VERIFICATION

The SWIR imaging sensor verifies LD on desired target and decodes laser energy to align laser code with weapon being launched.

APPLICATIONS

RECONNAISSANCE

SURVEILLANCE

MILITARY POLICE SECURITY

FORWARD OBSERVATION

FORCE PROTECTION

SPECIFICATIONS

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 EO CAMERA

Sensor type	Color CCD, Progressive Scan/Capture
Resolution	720p/1080p HD and NTSC/PAL
FOVs	25° to 0.2°

SWIR SHORT WAVE IR CAMERA (OPTIONAL)

Sensor type	InGaAs
Resolution	720p/1080p HD and NTSC/PAL
FOVs	33° to 0.28°

LASER SPOT TRACKER (OPTIONAL)

Sensor type	Extended Response (Supports multiple spot detection)
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LASER PAYLOADS (OPTIONAL)

Designator	100 mJ, Class 4
Rangefinder	Up to 25 km, Class 1 (eyesafe) or Class 1M (high rep rate)
Pointer	150 mW (Class 3b)

DIGITAL IMU/GPS+

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	6-axis, built-in
Az. coverage	360° continuous
El. coverage	+15° to -120°
Envelope	fully operational to 250 KIAS, 0-50,000 ft

SYSTEM INTERFACES

Digital video	SMPTE 292M/424M; MISB 2016.1; STANAG 4609
Analog video	NTSC/PAL
Data and control	RS-422, ARINC 429, MIL-STD-1553B, Ethernet
Metadata	MISP ST0601, 0902.1, 9716; STANAG 4609; SMPTE 291M / RP214

ENVIRONMENTAL

Standards	MIL-STD-810G, MIL-STD-461G, D0-160G
Operating temperature	-40°C to 55°C

POWER REQUIREMENTS

Voltage	22-29 VDC (per MIL-STD-704E)
Consumption	225 W (450 W max.)

DIMENSIONS, WEIGHT & MOUNTING

Single LRU	15.0"x 13.9" (380 mm x 353 mm) (additional clearance may be required)
TFU Weight	<70lbs (<32kg)
Mounting	Compatible with existing SAFIRE installations

OTHER OPTIONS & ACCESSORIES

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



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