

STAR SAFIRE[®] III

Multi-Mission EO/IR Surveillance Sensor

APPLICATIONS

SEARCH & RESCUE RECONNAISSANCE BORDER AND COASTAL PATROL TARGET IDENTIFICATION FORCE PROTECTION UAV PLATFORMS



With thousands of systems fielded, the Star SAFIRE III provides extremely reliable high performance. Along with superior image stabilization and long-range imaging, Star SAFIRE III features internal navigation for precise targeting, a MWIR thermal imager, optional EO color and low-light cameras, and multiple laser payload options. The system is fully hardened for military fixed-wing and helicopter operations, and it operates continuously in all conditions – even while sitting on the tarmac with no airflow.

Multiple sensors allow the Star SAFIRE III to detect, recognize, and positively identify targets with pinpoint precision at long ranges – capabilities that have been proven time and again on the battlefield. Mission crews can remain undetected at safe standoff distances while viewing high-resolution imagery in narrow and wide fields-of-view. With flexible integration options on multiple platforms, the Star SAFIRE III is optimal for program-centric airborne intelligence, surveillance, reconnaissance, patrol, and search and rescue missions.

FEATURES

OPTIMIZED USABILITY

View and track ground locations using the fully-embedded IMU; follow moving targets with the multi-mode Autotracker.

MULTI-MISSION CAPABLE

Can be used in applications as diverse as land force protection, shipboard open ocean and littoral patrol, and long-range airborne reconnaissance.

IMAGE BLENDING

Combine critical spectral information from the IR imager with the Image Intensified Low-Light camera or long-range Spotter Scope.

PRECISION TARGETING

Tightly coupled navigation delivers accurate, robust CAT 1 target coordinate-generation for faster, more confident targeting.

RELIABLE 24/7 OPERATION

Mature product with high MTBF and proven combat survivability in demanding arctic and desert environments.



SPECIFICATIONS

THERMAL IMAGER	
Sensor type	640 x 512 InSb focal plane array
Wavelength	3-5 µm response
FOVs	25° to 0.35°
Zoom ratio	71x
COLOR ZOOM CAMERA (OPTION)	1
Sensor type	Color CCD-TV
Resolution	525 / 625 line (NTSC/PAL)
FOVs	28° to 2.7°
Zoom ratio	18x (+12x E-Zoom)
SPOTTER SCOPE (OPTIONAL)	10x (+12x L=20011)
	2 ship Color CCD
Sensor type Resolution	3-chip Color CCD
Resolution	800 line 5.4° to 0.29°
FOVs	(Matched to IR FOVs)
LOW-LIGHT CAMERA (OPTIONAL	1
Sensor type	Image intensified 5.4° to 0.7°
FOVs	(Matched to IR FOVs)
LASER PAYLOADS (OPTIONAL)	
LASEN FAILOADS (OF HONAL)	Max. range 25 km +/-5 m
Rangefinder	Classification: Class 1 (eyesafe)
Illuminator	Power: 1 W or 2 W options
	Classification: Class 4
D. 1	Power: 100 mW
Pointer	Classification: Class 3b
DIGITAL IMU/GPS+ (OPTIONAL)	Tightly-coupled, fully-integrated, IMU and GPS for
	geo-pointing and target geo-location
SYSTEM PERFORMANCE	
System type	5 axis stabilization
Az. coverage	360° continuous
El. coverage	+30° to -120°
Airspeed	405 KIAS
SYSTEM INTERFACES	
Analog video	NTSC/PAL
Control	RS-232, RS-422, Ergonomic Laptop or Handheld
Data	RS-232, RS-422, ARINC 419/429, MIL-STD-1553B
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	200 W (650 W max)
DIMENSIONS, WEIGHT & MOUN	
TFU Size	15.0" x 17.5" (380 mm x 450 mm)
TFU Weight	<98 lbs (<44 kg)
CEU Size	10.0" x 7.5" x 12.5" (254 mm x 191 mm x 318 mm)
CEU Weight	23.0 lbs (10.4 kg)
Mounting	Compatible with Star SAFIRE family
Other Options & Accessories	





Other Options & Accessories

Automatic Target Tracker, Navigation/Radar Interfaces, Quick-Disconnect Mounts, Displays and Recorders, Moving Map Systems, Video Downlinks

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