

Sea Star SAFIRE III™

LONG RANGE, STABILIZED EO/IR SYSTEM
FOR MARITIME APPLICATIONS



APPLICATIONS

FORCE PROTECTION
SURVEILLANCE
SEARCH AND RESCUE
NAVIGATION
SITUATIONAL AWARENESS
VIDEO DATA COLLECTION

FEATURES

High resolution, large format 640x480 thermal imaging payload with powerful zoom optics

Daylight/Lowlight CCD-TV with continuous zoom optics

Gyro-stabilized

Rugged & marinized

Autotracker

Flexible integration

Eye-safe laser rangefinder

3 FOV color Spotter Scope with Haze Penetration filter

It's all FLIR inside

BENEFITS

Delivers unmatched range performance and image quality in total darkness

Enhances daytime surveillance operations and data gathering, lowlight capability extends operations into dawn and dusk

Provides stable imagery in rough seas or during high speed maneuvers

Engineered to meet or exceed MIL-STD 810 requirement for harsh military maritime conditions.

Allows the operator to lock onto targets reducing operator fatigue and ensuring accurate data flow

System can communicate with a variety of command and control systems, GPS/INS/IMU devices, radar, moving map and even searchlight systems for improved mission effectiveness

Offers additional tactical advantage when coupled with daylight or IR capability

Long distance daylight surveillance is improved via a 3 FOV color CCD spotter, haze penetration filter allows crisp imagery at long range in degraded conditions

FLIR controls the entire supply chain on the critical technology inside the Sea Star SAFIRE III, ensuring fast service and long-term support



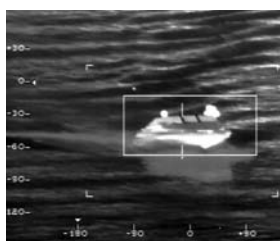
Detect threats before they become a threat



Locate even the hardest to find targets



Excellent zoom capabilities preserving resolution



Autotracking feature



Sea Star SAFIRE™ III

THERMAL IMAGER

Sensor type	640x480 InSb focal plane array
Wavelength	3-5µm response
FOVs	25° to 0.35°
Zoom ratio	71X

COLOR ZOOM CAMERA (OPTIONAL)

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)

Sensor type	3-chip Color CCD
Resolution	800 line
FOVs	5.4° to 0.29° (Matched to IR FOV's)

LOW-LIGHT CAMERA (OPTIONAL)

Sensor type	Image intensified
FOVs	5.4° to 0.7° (Matched to IR FOV's)

LASER PAYLOADS (OPTIONAL)

Rangefinder	Max. range	25Km +/-5m
	Classification	Class 1 (Eyesafe)
	Power	1W or 2W options
Illuminator	Classification	Class 4
	Beam Divergence	1° x 1°
	Power	100mw
Pointer	Power	100mw
	Classification	Class 3b

DIGITAL IMU/GPS+ (OPTIONAL)

Tightly-coupled, fully-integrated, IMU & GPS for geo-pointing and target geo-location

SYSTEM PERFORMANCE

System type	5 axis stabilization
Az. coverage	360° continuous
El. coverage	-30° to +120°
Stability	<15 µ

SYSTEM INTERFACES

Analog video	NTSC/PAL
Control	RS-232, RS-422, Ergonomic Laptop or Hand-held
Data	RS-232, RS-422, ARINC 419/429, MIL-STD-1553B

ENVIRONMENTAL

Standards	MIL-STD-810E & MIL-STD-461F
Operating temperature	-40°C to +55°C

POWER REQUIREMENTS

Voltage	22-29 VDC (per MIL-STD-704E)
Consumption	200W (650W max)

DIMENSIONS, WEIGHT & MOUNTING

Size	15.0" x 19.0" (380 mm x 480 mm)
Weight	<110 lbs (<50kg)
Mounting	compatible with SAFIRE systems

OTHER OPTIONS & ACCESSORIES

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

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EXPORT

