

# Sea Star SAFIRE® III

LONG RANGE, STABILIZED EO/IR SYSTEM  
FOR MARITIME APPLICATIONS



## APPLICATIONS

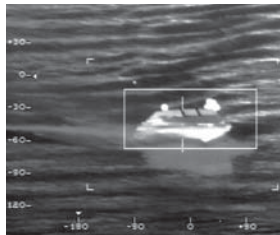
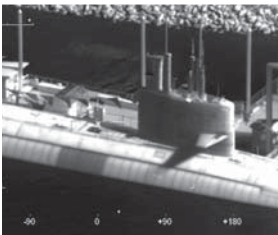
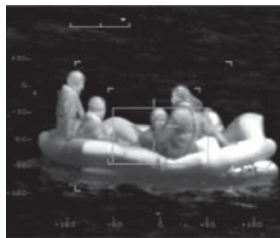
- FORCE PROTECTION
- SEARCH AND RESCUE
- NAVIGATION
- SITUATIONAL AWARENESS
- VIDEO DATA COLLECTION

## FEATURES

- High resolution, large format 640 x 480 thermal imaging payload with powerful zoom optics
- Daylight/Lowlight CCD-TV with continuous zoom optics
- Gyro-stabilized
- Rugged and marinated
- Autotracker
- Flexible integration
- Eye-safe laser rangefinder
- 3 FOV color Spotter Scope with Haze Penetration filter
- It's all FLIR inside

## BENEFITS

- Delivers unmatched D/R/I range performance and image quality in fully marinated 15-inch system
- Enhances daytime surveillance operations and data gathering, lowlight capability extends multi-spectral 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 range to target, and position/information
- 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





# Sea Star SAFIRE® III

## THERMAL IMAGER

Sensor type	640 x 480 InSb focal plane array
Wavelength	3-5 $\mu$ m 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 FOVs)

## LOW-LIGHT CAMERA (OPTIONAL)

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

## LASER PAYLOADS (OPTIONAL)

Rangefinder	Max. range	25 km +/-5 m
	Classification	Class 1 (eyesafe)
Illuminator	Power	1 W or 2 W options
	Classification	Class 4
Pointer	Power	100 mW
	Classification	Class 3b

## SYSTEM PERFORMANCE

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

## 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 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 & MOUNTING

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

## OTHER OPTIONS & ACCESSORIES

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

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