

## APPLICATIONS

- Maritime Reconnaissance, Surveillance & Target Acquisition (RSTA)
- Search & Rescue
- Coast & Harbor Patrol
- Force Protection/Counter Terrorism
- Economic Exclusion Zone Enforcement
- Customs Inspections
- Mine Detection
- Anti-Surface Warfare (ASUW)
- Anti-Submarine Warfare (ASW)
- Navigation & Situational Awareness
- Collision Avoidance
- Drug Interdiction
- Environmental Monitoring
- Vessel Traffic Monitoring

## LONG-RANGE TWO-SENSOR IMAGING

Maximize maritime operations with a fully marinized, gyro-stabilized thermal imaging system equally at home on the sea or in the air. SeaFLIR provides long-range infrared imaging in an extremely ruggedized and compact package, making the system a solid performer in virtually any maritime or over-water airborne environment.

### ULTRA COMPACT AND LIGHTWEIGHT

With a gimbal weight of 29 pounds and a diameter of just 9 inches, SeaFLIR reduces structural loading, improves platform stability and simplifies maintenance operations. Utilize SeaFLIR's size/weight advantage to equip all surface vessels and aircraft with a high-performance imaging capability.

### GREATER STANDOFF RANGE

Maximize safety by operating covertly at long ranges with SeaFLIR, which enables you to see clearly to the horizon through a wide range of obscurants – both night and day. The system features FLIR's leading-edge 3-5  $\mu\text{m}$  InSb focal plane array and a 10:1 continuous zoom optical system with an optional 1.8x optical extender.

### BUILT FOR MARITIME EXTREMES

SeaFLIR survives Sea-State 5 conditions and 15-G shocks. Tested in real-world environments and qualified to MIL-STD-810F, the system withstands maritime extremes with saltwater-tight seals, MIL-STD cable connectors, special corrosion-proof coatings and an internal heating unit.

### EXTENSIVELY FIELDED

SeaFLIR products have been selected by several maritime customers, including the US Navy, the US Coast Guard, and the US Military SeaLift Command. Over 100 SeaFLIRs and its military variants (AN/KAX-1 and AN/KAX-2) are currently deployed and operational.

### ENHANCED OPERABILITY FEATURES

An ergonomic hand controller and a multi-mode autotracking system with autoscan are standard with SeaFLIR. Additional instrumentation includes radar, GPS and a unique radar bearing handoff interface option that allows for a seamless sharing of tracking information between marine search radar and SeaFLIR's autotracker.

### SENSOR PAYLOAD OPTIONS:

#### LONG-RANGE COLOR CCD

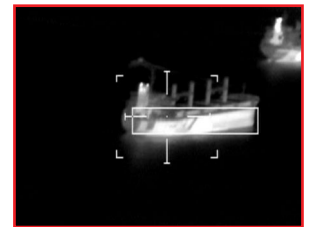
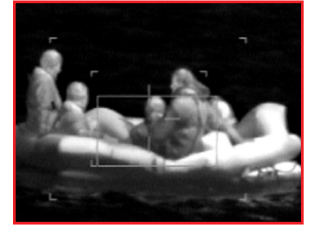
SeaFLIR's color CCD with 10:1 continuous zoom provides exceptional viewing capability during daylight hours – and well into dusk.

#### LOW-LIGHT MONOCHROME CCD

SeaFLIR's low-light monochrome CCD with 10:1 continuous zoom offers excellent viewing capability in difficult low-light situations.

#### BORESIGHTED EYE-SAFE LASER RANGEFINDER

Determine range to target or landing zones within a +/- 5-meter accuracy. SeaFLIR's laser rangefinder provides proven 20-km range performance, and performs flawlessly in a wide range of weather conditions.



## SYSTEM SPECIFICATIONS

Turret Size	9.0" dia. x 15.2" h (22.9 x 38.6 cm)
Turret Weight	29 lbs (13.1 kg)
Azimuth/Elevation	360° continuous
Slew Rate	Variable to ≤ 50°/sec
Control	HCU, serial digital
Environmental	MIL-STD-810F/RTCA/DO 160D
Maritime Considerations	Sealed housing, HCU and ECU, heated turret

## THERMAL IMAGER

Sensor	256 x 256 InSb FPA 3.4-5.1 μm	
Resolution	1.2-0.12 mRad	
Fields of View (HxV)	Wide	17.6° x 16.5°
	Narrow	1.76° x 1.65°
	Narrow (w/1.8x)	0.98° x 0.92°
Focal Length	25-450 mm with 1.8x continuous zoom	

## OPTIONAL CONFIGURATIONS

### LONG-RANGE COLOR CCD DAYLIGHT IMAGER (SEAFLIR/SEAFLIR C)

Video Format	NTSC or PAL
Imager	1/3" color CCD 811 x 608
Resolution	470 television lines
IR Extender	1.8x 45-450 mm focal length (SeaFLIR C, L & M only)

### LOW-LIGHT MONOCHROME CCD DAYLIGHT IMAGER (SEAFLIR M)

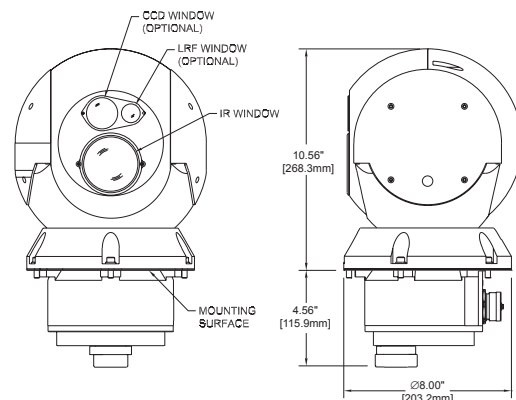
Video Format	NTSC or PAL
Imager	1/2 monochrome CCD 768 x 576
Resolution	570 television lines
Sensitivity	.003 lux @ f/1.4
Fields of View	29° vertical to 2.9° horizontal continuous zoom

### EYE-SAFE LASER RANGEFINDER (SEAFLIR L)

Type	1.5 micron, eye-safe
Range	40-20 km ±5 meters
IR Extender	1.8x 25-450 mm focal length

### LASER POINTER

Laser Type & Class	LED, Class IIIb
Wavelength	830 nm
Note: Laser pointer is visible with image-intensified night-vision systems	



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