

# SeaFLIR® III

THE MOST POWERFUL MULTI-SENSOR  
IMAGER IN ITS CLASS



## APPLICATIONS

MARITIME & AIRBORNE RECONNAISSANCE,  
SURVEILLANCE AND TARGET ACQUISITION (RSTA)

SEARCH & RESCUE (SAR)

COASTAL & HARBOR PATROL

FORCE PROTECTION/COUNTER TERRORISM

DRUG INTERDICTION

CUSTOMS INSPECTIONS

MINE DETECTION

ANTI-SURFACE WARFARE (ASUW)

ANTI-SUBMARINE WARFARE (ASW)

NAVIGATION & SITUATIONAL AWARENESS

COLLISION AVOIDANCE

ENVIRONMENTAL MONITORING

VESSEL TRAFFIC MONITORING

## FEATURES

Mid or large format mid-wave IR with up to 450mm of continuous zoom

Daylight/Low-light TV with 40x zoom

Precision target geo-positioning

Gyro stabilization

Multi-mode autotracker

Laser pointer

Rugged marinization - exceeds Mil-standards

Built in test (BIT)

Flexible integration capability

Digital and analog video outputs

## BENEFITS

Powerful, sensitive thermal imaging delivers crisp imagery through total darkness and most obscurants with detection capability beyond 10km

Assists in reading ship registration numbers and multitude of daytime surveillance missions. The low-light camera allows operation into dawn and dusk, and can see the laser pointer

Eye-safe laser rangefinder works in conjunction with GPS/INS/IMU/DMC to calculate target lat/long, elevation, range and bearing

Provides stable imagery in rough seas, or on aircraft in flight, critical for long-range imaging

Allows operator to "lock" onto targets and reduces fatigue-critical for long missions

Optional laser pinpoints targets for observers using night vision equipment, while remaining invisible to others

Engineered to withstand the harsh conditions of maritime and military environments

SeaFLIR III incorporates a comprehensive BIT which confirms operation of critical functions and performs fault isolation to simplify logistics

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

Support of both output types maximizes compatibility with platform monitors and recording devices. Digital capability optimizes video resolution and provides greater data transmission/manipulation flexibility



High resolution thermal imagery



High fidelity digital daylight/low light TV



## SeaFLIR® III

### THERMAL IMAGER

Sensor type	320x240 InSb focal plane array (640x480 option)
Wavelength	3-5µm response
FOVs	21.7° to 1.2° (w/1.8X optical extender)
Zoom range	25mm to 450mm (w/1.8X optical extender)

### COLOR CCD-TV CAMERA

Format	NTSC or PAL
Type	Super HAD CCD, ¼" Format
FOVs	48° to 1.2°
Sensitivity	0.7 Lux @ F1.4

### LASER PAYLOADS

Rangefinder	Type	Erbium-glass, 1.54 µm
	Max. range	20Km +/-5m
	Classification	Class 1 (Eyesafe)
Pointer	Wavelength	830 nm
	Power	135 mW
	Classification	Class IIIb

### STABILIZED GIMBAL ASSEMBLY (SGA)

System type	2-axis stabilization
Az. coverage	360° continuous
El. coverage	360° continuous
Stability	35 microradians
Slew Rate	0° to 140°/sec

### SYSTEM INTERFACES

Analog video	NTSC or PAL
Digital video	Yes
Control	Ergonomic Laptop or Hand-held
Data	RS-232, RS-422

### ENVIRONMENTAL

Standards	MIL-STD-810 & RTCA DO-160D
Operating temperature	-40°C to +55°C

### POWER REQUIREMENTS

Voltage	18-32 VDC
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### DIMENSIONS & WEIGHT

SGA Size	9.0" x 13.8" (22.9 cm x 35.0 cm)
Weight	32 lbs (14.5 kg)

### OTHER OPTIONS & ACCESSORIES

Target Geo-Location, Navigation/Radar/Moving Map/Searchlight Interfaces, Mounts, Monitors, Recorders, Power Supplies, Training and Installation Support

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