



**LONG-RANGE, SHIPBOARD HD
MULTI-SPECTRAL SURVEILLANCE SYSTEM**

SeaFLIR® 380-HD

The SeaFLIR 380-HD provides superior image stabilization, ultra-long range imaging performance, and true metadata embedded in the digital video. The full HD system is easy to integrate, operating simply as a node on a network and requiring no additional junction boxes. Fully seaworthy and hardened for military vessels—and fixed-wing and helicopter operations—it can operate continuously in all conditions—even when there's no airflow. HD thermal and color imagery in all light conditions provide clear situational awareness 24/7.

Built to MIL-STD-461F and MIL-STD-810E standards, SeaFLIR 380-HD is designed for deployment in ISR, EEZ enforcement, maritime SAR, force protection, and counter piracy. Optional SWIR payload delivers clear visibility through the marine layer. Multiple laser payloads covertly light up wide areas, point out distant targets to other forces, and determine target distance and location. As the world's first full-HD system of its kind, 380-HD has been battle-tested by forces around the world, including the US Navy and Royal Danish Navy.

FEATURES

SINGLE LRU HD MULTI-SENSOR

With all-digital, full-HD imaging in a single LRU, it's easy to install and integrate—no junction boxes required.

FULL DIGITAL IMAGE BLENDING

The system combines important HD IR, color, or SWIR spectral information for enhanced results—essential in single video channel downlinks.

ZOOM AND TRACK MARITIME TARGETS

High 120x-magnification optics extend detection range. Laser payloads covertly illuminate and point out targets, and determine distance and location.

ALL-WEATHER, SEA-READY

Designed for 24/7/365 maritime duty, SeaFLIR 380-HD provides ultra-long range target detection, identification, and tracking.

SWIR VISIBILITY OPTION

Add the optional SWIR imager for better visibility in the maritime environment, where degradation from the marine layer is common.

APPLICATIONS

RECONNAISSANCE

SURVEILLANCE

MILITARY POLICE SECURITY

FORWARD OBSERVATION

FORCE PROTECTION

SPECIFICATIONS

THERMAL IMAGER

Sensor type	640 x 512 InSb MWIR FPA (standard) 1280 x 720 InSb MWIR FPA (optional)
Resolution	720/1080 HD and NTSC/PAL
Wavelength	3-5 μm response
FOVs	30° to 0.25° (with standard FPA)
Zoom ratio	120x

COLOR HIGH DEFINITION CAMERA (OPTIONAL)

Sensor type	Color CCD, Progressive scan
Resolution	720/1080 HD and NTSC/PAL
FOVs	29° to 0.25°
Zoom ratio	120x

COLOR LOW LIGHT HIGH DEFINITION CAMERA (OPTIONAL)

Sensor type	Color NIR CCD, Progressive Scan
Resolution	720/1080 HD and NTSC/PAL
FOVs	55° to 1.5°

SWIR SHORT WAVE IR CAMERA (OPTIONAL)

Sensor type	InGaAs; extended NIR sensitivity optional
Resolution	720/1080 HD and NTSC/PAL
FOVs	28° to 0.25°

LASER PAYLOADS (OPTIONAL)

Rangefinder	Up to 25 km, Class 1 (eyesafe)
Illuminator	1 W or 2 W, Class 4
Pointer	100 mW, Class 3b
DIGITAL IMU/GPS+	Tightly-coupled, fully-integrated, IMU and GPS for geo-pointing and target geo-location capability

SYSTEM PERFORMANCE

System type	6 axis stabilization
Az. coverage	360° continuous
El. coverage	+30° to -120°

SYSTEM INTERFACES

Digital video	SMPTE 292M/424M
Analog video	NTSC/PAL
Data and Control	RS-232, RS-422, ARINC 419/429, MIL-STD-1553B, Ethernet
Metadata	MISP compliant STD9716 & STD0902.1, STANAG 4609, SMPTE 291M/RP214

ENVIRONMENTAL

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

POWER REQUIREMENTS

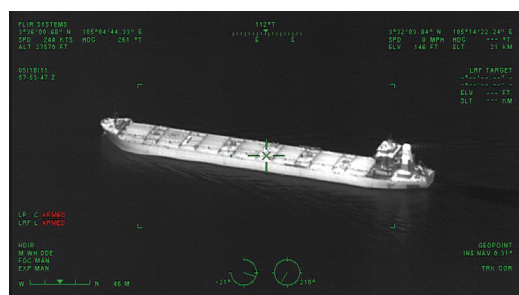
Voltage	22-29 VDC (per MIL-STD-704E)
Consumption	280 W (350 W max)

DIMENSIONS, WEIGHT & MOUNTING

Single LRU	15.0" x 18.5" (380 mm x 475 mm)
TFU Weight	<105 lbs (<48 kg)
Mounting	Compatible with existing SAFIRE installations

OTHER OPTIONS & ACCESSORIES

Navigation/Radar Interfaces, Quick-Disconnect Mounts, High Resolution Displays and Recorders, Moving Map Systems, High-Definition Downlinks
Reg. US Patent 7,474,451 and 7,264,220, other patents pending



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The World's Sixth Sense®