SeaFLIR® 380-HD

SINGLE LRU EO/IR IMAGING SYSTEM WORLD'S FIRST AND ONLY FULL HD SYSTEM **FULL SPECTRUM IMAGING** FLIR COMMON INTERFACE STANDARD VIDEO METADATA



APPLICATIONS

ISR

SAR

FORCE PROTECTION

COUNTER PIRACY

EEZ ENFORCEMENT



FEATURES

Single LRU Full HD System

Full 1080P HD-SDI digital performance

Second generation Full-HD

Embedded Metadata

SWIR band sensor

High def color in low light

Full color digital image blending

120x zoom ratio

Enhanced standard definition video

Optimized usability

Multiple laser payloads

Simplified common interface standard

Fully hardened for military maritime operations

BENEFITS

The only all-digital, Full HD system in a single LRU for ease of installation and integration; no junction boxes required

High bandwidth HD-SDI (aka SMPTE-292M) video channels with symbology overlays comply with all government HD standards, providing full 1080P, 720P and other formats

Full high definition mega-pixel resolution imagery from all sensors for superior range and imaging performance

Sensor and geospatial data is fully embedded within the digital video stream - no need for dedicated ports or external boxes

See more in the maritime environment using the optional SWIR short wave infrared payload for expanded multi-spectral day and night imaging

Extend full color imaging into the dark with full high definition clarity and with expanded wide dynamic range

Combine important spectral information from IR & color or SWIR sensors for enhanced results; extremely valuable when limited to single video channel downlinks

High-magnification optics extend detection range to the horizon without sacrificing wide FOV situational awareness

Analog video installations will benefit from the HD's high-resolution digital sensors and high-quality optics

View and track maritime targets using the fully-embedded IMU; follow

moving targets with the multi-mode Autotracker

Covertly illuminate wide areas, point out distant targets to other forces, and determine target distance and location

Provides standardized wiring to all HD turrets in this familiy; and to external systems, making this family of systems completely

interchangeable and interoperable

All-weather design is qualified to the most demanding requirements of MIL-STD-810 and 461, marinisation proven in US Navy and Royal

Danish Navy service







SeaFLIR® 380-HD

THERMAL IMAGER

640 x 512 InSb MWIR FPA (standard) Sensor type 1280 x 720 InSb MWIR FPA (optional) Resolution 720/1080 HD and NTSC/PAL

Wavelength 3-5 µm response

30° to 0.25° (with standard FPA) FOVs

Zoom ratio 120x

COLOR HIGH DEFINITION CAMERA (OPTIONAL)

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

120x Zoom ratio

COLOR LOW LIGHT HIGH DEFINITION CAMERA (OPTIONAL)

Color NIR CCD, Progressive Scan Sensor type 720/1080 HD and NTSC/PAL Resolution

FOVs 55° to 1.5°

SWIR SHORT WAVE IR CAMERA (OPTIONAL)

InGaAs; extended NIR sensitivity optional Sensor type

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 4 100 mW, Class 3b Pointer

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 360° continuous +30° to -120° Az. coverage El. coverage

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 MISP compliant STD9716 & STD0902.1, STANAG 4609, Metadata

SMPTE 291M/RP214

ENVIRONMENTAL

DANGER

DANGER

DANGER

MIL-STD-810E and MIL-STD-461F Standards

Operating temperature -40°C to 55°C

POWER REQUIREMENTS

22-29 VDC (per MIL-STD-704E) Voltage

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)

Compatible with existing SAFIRE installations Mounting

OTHER OPTIONS & ACCESSORIES

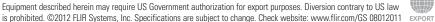
Navigation/Radar Interfaces, Quick-Disconnect Mounts, High Resolution Displays and Recorders, Moving Map Systems, High-Definition Downlinks

Reg. US Patent 7,474,451 and 7,264,220, other patents pending









WASHINGTON, D.C.

27700 SW Parkway Ave. Wilsonville, OR 97070 PH: +1.800.727.3547

FLIR Systems, Inc.

CORPORATE HEADQUARTERS

FLIR Systems, Inc. 2800 Crystal Drive, Suite 330 Arlington, VA 22202 USA PH: +1.703.416.6666

ALPHARETTA

FLIR Systems, Inc. 5940 Cabot Parkway, Suite 100 Alpharetta, GA 30005 USA PH: 1.800.762.4796

BOSTON

FLIR Systems, Inc. 25 Esquire Road North Billerica, MA 01862 PH: +1.800.464.6372

HUNTSVILLE

FLIR Systems, Inc. Huntsville, AL USA PH: +1 256 325 3547

PITTSBURGH

FLIR Systems, Inc. Freeport, PA USA PH: +1.724.295.2880

STILLWATER

FLIR Systems, Inc. 1024 S. Innovation Way Stillwater, OK 74074 USA PH: +1.405.372.9535

EUROPE

FLIR Systems, Ltd. West Malling, Kent PH: +44.1732.220011

CANADA

FLIR Systems, Ltd. Burlington, ON Canada

PH: +1.800.613.0507

FLIR Systems, Ltd. 3440 Francis-Hughes, Suite 120

Laval, QC H7L 5A9 Canada

PH: +1.450.663.4554

SWEDEN

FLIR Systems AB Täby, Sweden PH: +46.8.753.2500

MIDDLE FAST

FLIR Systems Middle East, FZCO Dubai Airport Free Zone PH: +9714.299.6898

www.flir.com