TELEDYNE FLIR

SEAFLIR® 380-HD

Long-Range, Shipboard HD
Multi-Spectral Surveillance System

APPLICATIONS

RECONNAISSANCE

SURVEILLANCE

MILITARY POLICE SECURITY

FORWARD OBSERVATION

FORCE PROTECTION



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.

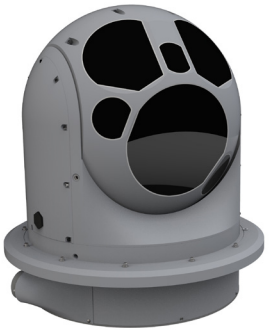
SPECIFICATIONS

THERMAL IMAGER	
Sensor type	1280 x 720 InSb MWIR FPA
Resolution	720/1080 HD and NTSC/PAL
Wavelength	3-5 µm response
FOVs	30° to 0.25°
Zoom ratio	120x
COLOR HIGH DEFINITION CAMERA (OPTIONAL)	
Sensor type	(CMOS) Global Shutter
Resolution	720/1080 HD and NTSC/PAL
FOVs	30° to 0.25°
Zoom ratio	120x
COLOR LOW LIGHT HIGH DEFINITION CAMERA (OPTIONAL)	
Sensor type	(CMOS) Global Shutter
Resolution	720/1080 HD and NTSC/PAL
FOVs	50° to 2.3°
SWIR SHORT WAVE IR CAMERA (OPTIONAL)	
Sensor type	InGaAs
Resolution	720/1080 HD and NTSC/PAL
FOVs	30° to 0.25°
LASER PAYLOADS (OPTIONAL)	
Rangefinder	Up to 30 km, Class 1 (eyesafe)
Illuminator	1 W or 2 W, Class 4
Pointer	150 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	4 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-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	115 lbs (52.1 kg)
Mounting	Compatible with existing Star SAFIRE installations

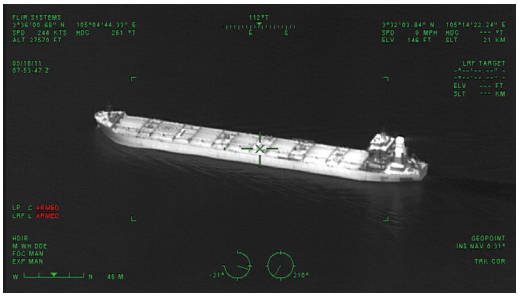
OTHER OPTIONS & ACCESSORIES

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









STACE™ Digital Image Enhancement GEOLOCK™



AMERICAS

27700 SW Parkway Ave
Wilsonville, OR 97070

EUROPE

2 Kings Hill Avenue - Kings Hill
West Malling, Kent ME19 4AQ
United Kingdom

Antennvägen 6,
PO Box 737
SE-187 66 Täby
Sweden

MIDDLE EAST

Wadi Al Fey St.
Building 60, Office # 302
New Ministries Exit /
Khalifa Park Area
Abu Dhabi, U.A.E.

Office 127, First Floor
Akaria Plaza Building, Olaya Street
Riyadh, 11481, Saudi Arabia

ASIA

Meguro Tokyu Bldg. 5F,
2-13-17
Kami-Osaki, Shinagawa-ku.
Tokyo, 141-0021, Japan

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