

Star SAFIRE® 230-HD

SINGLE LRU EO/IR IMAGING SYSTEM
ALL-DIGITAL FAMILY OF HIGH DEFINITION SYSTEMS
COMMON CABLES, CONTROLLER AND INTERFACES
LIGHT WEIGHT 9" PACKAGE, UP TO 7 SENSOR PAYLOADS



APPLICATIONS

- SURVEILLANCE
- RECONNAISSANCE
- TARGET ACQUISITION & TRACKING
- FORCE PROTECTION
- SEARCH AND RESCUE (SAR)
- COMBAT SEARCH AND RESCUE (CSAR)
- PURSUIT AND PATROL
- DRUG INTERDICTION

FEATURES

- Compact Stabilized Turret
- HD Color CCD Camera.
- Continuous Zoom High Resolution IR Camera.
- Low Light High Res Camera
- Eyesafe Laser Rangefinder
- Embedded IMU/GPS and Geo-Functions
- Near IR Laser Illuminator or Optional Laser Pointer
- Video Target Tracker
- Workload Reduction Features
- Multiple Digital and Analog Outputs
- Peripheral Device Interfaces and Operating Modes
- Star SAFIRE Family Interface and Cabling

BENEFITS

- Exceptionally stable full motion video with reduced sensor weight
- Outstanding color video resolution and clarity; continuous optical zoom and additional electronic zoom
- Unparalleled thermal imagery with the continuous optical and electronic zoom
- Excellent full motion, monochrome, video under low light conditions
- Accurate and precise range to target
- Earth referenced target geo-location, geo-stabilization, geo-pointing and automatic moving map response
- Provides covert target illumination for viewing with night vision equipment and/or the Low Light Camera
- User can lock onto and track targets of interest using any of the three onboard imaging cameras
- Automatic focus, gain and level settings reduce operator workload and enhance the user's ability to complete their mission
- Multiple digital and analog outputs with user control of metadata overlays and display formats (1080p, 1080i, 720p, NTSC, PAL)
- Built-in Moving Map interface, Slave to Search Light mode, Auto-Search and Scan modes, and remote operation via a radio data link
- The cables, mounting, graphical user interface and hand controller options are 100% compatible with the rest of FLIR Systems family of Star SAFIRE Gimbaled Sensors





Star SAFIRE® 230-HD

INFRARED CAMERA

Sensor type	640 x 512 pixel InSb MWIR FPA
Zoom ratio	18x continuous optical zoom with e-zoom to 36x overall
Fields of view	21.7° (h) to 0.6° (h)

DAYLIGHT HD COLOR CAMERA

Sensor type	1280 x 720 pixel High Definition color CCD camera
Zoom ratio	10x continuous optical zoom with e-zoom to 20x overall
Fields of View	12° (h) to 0.6° (h)

LOW LIGHT CAMERA

Sensor type	811 x 580 pixel High Sensitivity CCD camera
Zoom ratio	10x continuous continuous optical zoom with e-zoom to 20x overall
Fields of View	12° (h) to 0.6° (h)

LASER RANGEFINDER

Nominal wavelength	1540 nm
Max. range	20 km
Classification	Class 1 (per ANSI Z136.1-2000)

LASER ILLUMINATOR

Nominal wavelength	830 nm
Power	2W
Classification	Class 4 (per ANSI Z136.1-2000)

LASER POINTER (OPTION)

Nominal wavelength	830 nm
Power	135 mW
Classification	Class 3b (per ANSI Z2136.1-2000)

IMU/GPS

Description	Embedded IMU/GPS unit (external GPS antenna); provides geo-referenced target location and enables moving map command capabilities
-------------	---

AUTOTRACKER

Description	Multi-target video tracker works with all three imagers
-------------	---

MECHANICAL/ELECTRICAL

System weight	~42 lbs (~19 kg Single LRU)
Turret FLIR Unit (TFU)	9.0" d (22.9 cm), 360° AZ, 360° EL Continuous
Interfaces	MIL-STD-1553, ARINC 429, Ethernet, RS-232, RS-422
Video standards	Digital SMPTE-292M, Analog SMPTE 170M (RS170)
Power	18-32 VDC, 280 W nominal, 308 W Max

DESIGN STANDARDS

MIL-STD-810 & MIL-STD-461



Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. ©2012 FLIR Systems, Inc. Specifications are subject to change. Check website: www.FLIR.com/GS_01152012

CORPORATE HEADQUARTERS

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

WASHINGTON, D.C.

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
United Kingdom
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 EAST

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

www.flir.com

