

STAR SAFIRE FAMILY
COMMON INTERFACE

Stabilized Multisensors

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



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