

Star SAFIRE® HD

SECOND GENERATION ADVANCEMENT
WORLD'S FIRST AND ONLY FULL HIGH DEFINITION
MULTI-SPECTRAL IMAGING SYSTEM



APPLICATIONS

ISR
SAR
MARITIME PATROL
BORDER PATROL
UAVs
FORCE PROTECTION

FEATURES

Second generation full-HD
High definition color in low light
120x zoom ratio
Advanced programmable hardware
HD-SDI digital output
Enhanced standard definition video
Optimized usability
Multiple laser payloads
Maintain SAFIRE-family compatibility
Commercially developed, MIL qualified

BENEFITS

Full high definition mega-pixel resolution imagery from all sensors for superior range and imaging performance
Extend full color imaging into the dark with full high definition clarity and with expanded wide dynamic range
High-magnification optics extend detection range to the horizon without sacrificing wide FOV situational awareness
Real-time HD image processing features extract critical image detail, blend sensor imagery and help overcome atmospheric haze
High bandwidth HD-SDI (aka SMPTE-292M) video channels with symbology overlays comply with all government HD standards
Analog video installations will benefit from the HD's high-resolution digital sensors and high-quality optics
View and track ground locations using the embedded, tightly-coupled 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
Total cable compatibility allows operators to upgrade existing SAFIRE-family installations to High-Definition with plug-and-play simplicity
All-weather design is qualified to the most demanding requirements of MIL-STD-810 and 461





Star SAFIRE® HD

THERMAL IMAGER

Sensor type	640 x 512 InSb focal plane array
Resolution	720/1080 and NTSC/PAL
Wavelength	3-5µm response
FOVs	30° to 0.25°
Zoom ratio	120X

COLOR HIGH DEFINITION CAMERA (OPTIONAL)

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

LOW-LIGHT HIGH DEFINITION CAMERA (OPTIONAL)

Sensor type	Color NIR CCD, Progressive scan
Resolution	720/1080 and NTSC/PAL
FOVs	55° to 1.5°
Zoom ratio	36X

LASER PAYLOADS (OPTIONAL)

Rangefinder	Max. range	20Km +/-5m
	Classification	Class 1
Illuminator	Power	1W or 2W options
	Classification	Class 4
Pointer	Power	100mW
	Classification	Class 3b

DIGITAL IMU/GPS (OPTIONAL)

Tightly-coupled, fully-integrated, IMU & 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°
Airspeed	405 KIAS

SYSTEM INTERFACES

Digital video	SMPTE 292M
Analog video	NTSC/PAL
Control	RS-232, RS-422, Ergonomic Laptop or Hand-held
Data	RS-232, RS-422, ARINC 419/429, MIL-STD-1553B

ENVIRONMENTAL

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

POWER REQUIREMENTS

Voltage	22-29 VDC (per MIL-STD-704E)
Consumption	200W (650W max)

DIMENSIONS, WEIGHTS & MOUNTING

TFU Size	15.0" x 17.5" (380 mm x 450 mm)
TFU Weight	<99 lbs (<45kg)
CEU Size	10.0" x 7.5" x 12.5" (254 mm x 191 mm x 318 mm)
CEU Weight	23.0 lbs (10.4 kg)
Mounting	compatible with existing SAFIRE systems

OTHER OPTIONS & ACCESSORIES

Long-wave IR (LWIR) imager, Automatic Video Tracker, Navigation/Radar Interfaces, Quick-Disconnect Mounts, High Resolution Displays & Recorders, Moving Map Systems



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CORPORATE HEADQUARTERS

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
PH: +1 800.727.3547

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

WASHINGTON, D.C.

FLIR Systems, Inc.
2800 Crystal Drive, Suite 330
Arlington, VA 22202 USA
PH: +1 703.416.6666

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

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/GS

