

Star SAFIRE® III

THE MULTI-MISSION IMAGING SOLUTION
FOR LAND AND AIR APPLICATIONS



APPLICATIONS

SEARCH & RESCUE

RECONNAISSANCE

BORDER AND COASTAL PATROL

TARGET IDENTIFICATION

UAVS

FORCE PROTECTION



FEATURES

Multi-mission capable

High-resolution color
spotter scope

Matched multi-FOV optics

Image Intensified low-
light camera

Image blending

Reliable 24/7 operation

Optimized usability

Multiple laser payloads

Maintain SAFIRE-family
compatibility

Commercially developed/
MIL qualified

BENEFITS

Can be used in applications as diverse as land force protection, shipboard open ocean and littoral patrol, and long-range airborne reconnaissance

Extends identification range performance by providing maximum detail from covert stand-off distances

All cameras feature multiple FOV's maintaining situational awareness while also achieving long range performance and enabling Image Blending

Brings true all day / all night capability in multiple wavebands, and forms the basis for Image Blending

Combine critical spectral information from IR imager with Image Intensified Low-Light camera or long-range Spotter Scope

High MTBF and proven combat survivability in demanding arctic and desert environments

View and track ground locations 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

Total cable compatibility allows operators to upgrade existing SAFIRE-family installations with plug-and-play simplicity

All-weather design is qualified to the most demanding requirements of MIL-STD-810 & 461



Star SAFIRE® III

THERMAL IMAGER

Sensor type	640x480 InSb focal plane array
Wavelength	3-5µm response
FOVs	25° to 0.35°
Zoom ratio	71X

COLOR ZOOM CAMERA (OPTIONAL)

Sensor type	Color CCD-TV
Resolution	525 / 625 line (NTSC/PAL)
FOVs	28° to 2.7°
Zoom ratio	18X (+12X E-Zoom)

SPOTTER SCOPE (OPTIONAL)

Sensor type	3-chip Color CCD
Resolution	800 line
FOVs	5.4° to 0.29° (Matched to IR FOV's)

LOW-LIGHT CAMERA (OPTIONAL)

Sensor type	Image intensified
FOVs	5.4° to 0.7° (Matched to IR FOV's)

LASER PAYLOADS (OPTIONAL)

Rangefinder	Max. range	25Km +/-5m
	Classification	Class 1 (Eyesafe)
Illuminator	Power	1W or 2W options
	Classification	Class 4
Pointer	Beam Divergence	1° x 1°
	Power	100mw
	Classification	Class 3b

DIGITAL IMU/GPS+ (OPTIONAL)

Tightly-coupled, fully-integrated, IMU & GPS for geo-pointing and target geo-location

SYSTEM PERFORMANCE

System type	5 axis stabilization
Az. coverage	360° continuous
El. coverage	+30° to -120°
Stability	<15 µ
Airspeed	405 KIAS

SYSTEM INTERFACES

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 - 55°C

POWER REQUIREMENTS

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

DIMENSIONS, WEIGHT & MOUNTING

TFU Size	15.0" x 17.5" (380 mm x 450 mm)
TFU Weight	<98 lbs (<44kg)
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 UltraMedia and SAFIRE systems

OTHER OPTIONS & ACCESSORIES

Automatic Target Tracker, Navigation/Radar Interfaces, Quick-Disconnect Mounts, Displays & Recorders, Moving Map Systems

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. ©2006 FLIR Systems, Inc. Specifications are subject to change. Check website: www.flir.com 05022006



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