

# Star SAFIRE® III

**THE** MULTI-MISSION IMAGING SOLUTION  
FOR LAND AND AIR APPLICATIONS



## APPLICATIONS

SEARCH & RESCUE

RECONNAISSANCE

BORDER AND COASTAL PATROL

SURVEILLANCE

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 FOVs maintaining situational awareness while also achieving long range performance and enabling Image Blending

Brings true all day and all night imaging 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 and 461





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## THERMAL IMAGER

Sensor type	640 x 512 InSb focal plane array
Wavelength	3-5 $\mu$ m response
FOVs	25° to 0.35° (Matched to IR FOVs)
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°

## LOW-LIGHT CAMERA (OPTIONAL)

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

## LASER PAYLOADS (OPTIONAL)

Rangefinder	Max. range	25 km +/-5 m
	Classification	Class 1 (eyesafe)
Illuminator	Power	1 W or 2 W options
	Classification	Class 4
Pointer	Power	100 mW
	Classification	Class 3b

## DIGITAL IMU/GPS+ (OPTIONAL)

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

## SYSTEM PERFORMANCE

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

## SYSTEM INTERFACES

Analog video	NTSC/PAL
Control	RS-232, RS-422, Ergonomic Laptop or Handheld
Data	RS-232, RS-422, ARINC 419/429, MIL-STD-1553B

## 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	200 W (650 W max)

## DIMENSIONS, WEIGHT & MOUNTING

TFU Size	15.0" x 17.5" (380 mm x 450 mm)
TFU Weight	<98 lbs (<44 kg)
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 and Recorders, Moving Map Systems, Video Downlinks

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