

# BRITE Star<sup>®</sup> II

Laser by FLIR Systems<sup>™</sup>

THE MOST POWERFUL MULTI-SENSOR  
TARGETING IMAGER IN ITS CLASS



## APPLICATIONS

- SURVEILLANCE
- ATTACK
- ARMED RECONNAISSANCE
- IRREGULAR WARFARE
- LOW INTENSITY CONFLICTS

Selected for these high-profile platforms:



BRITE Star II directing fire for a Bradley Fighting Vehicle Technology Demonstrator



BRITE Star on the Norwegian Navy SB90 patrol boat



BRITE Star II on the US Navy Fire Scout UAV



BRITE Star is battle proven in Operation Iraqi Freedom

## FEATURES

- 5 field-of-view (FOV), large format thermal imager
- 3 FOV, high-resolution, 3-chip color daylight camera with monochrome mode and matched fields of view to the thermal imager
- Diode Pumped Laser Designator/Rangefinder
- Laser pointer
- Automatic in-flight boresighting capability
- Laser spot tracker
- Internal Measurement Unit and navigation processor
- Automatic target tracker
- Selected on high-profile platforms
- All FLIR inside

## BENEFITS

- Offers a field-of-view setting to match any mission, providing excellent situational awareness and the greatest stand off range in its class
- Enhances daylight missions and target identification; maintains operator orientation when switching between sensors
- Offers continuous duty cycle, high reliability, and long range performance; compatible with US and NATO laser-guided munitions, including Hellfire missiles
- Provides air-to-ground tactical advantage, mark locations/targets for NVG equipped forces
- On-demand confirmation of designator accuracy without sacrificing field of regard; minimizes pre-flight preparation, and enables fast installation on multiple platforms
- Enables sensor cueing to designated targets, simplifies target hand-off, and helps put secondary eyes on target
- Ensures precision geo-pointing and target geo-location, holds track during rigorous maneuvers
- Multi-mode adaptive tracker locks onto, and holds, moving and stationary targets independent of platform motion
- Selected for the USMC and US Navy programs, the BRITE Star II is the high-performance, low-risk solution
- FLIR controls the critical technology inside every Star class gimbal ensuring the fastest service and worldwide support





## BRITE Star® II

### THERMAL IMAGER

Sensor type	640 x 512 InSb focal plane array
Wavelength	3-5 $\mu$ m response
FOVs	30° to 0.31°
Magnification ratio	97x

### DAYLIGHT CAMERA

Sensor type	3-Chip Color CCD-TV
FOVs	Matched to IR

### LASER PAYLOADS

Designator	Type	Nd:YAG, 1.06 $\mu$ m
	Classification	Class 4
	Code compatibility	compatible with US and NATO laser guided munitions
Rangefinder	Max. range	20 km +/-5 m
	Classification	Class 1 (eyesafe)
Pointer	Power	640 mW
	Classification	Class 4

### SYSTEM PERFORMANCE

System type	4-axis gimbal stabilization
Az. coverage	360° continuous
El. coverage	+32° to -100°

### SYSTEM INTERFACES

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

### ENVIRONMENTAL

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

### POWER REQUIREMENTS

Voltage	22-29 VDC (per MIL-STD-704E)
Consumption	200 W typical (850 W max)

### DIMENSIONS & WEIGHT

TFU Size	16.2" x 19.3" (410 mm x 490 mm)
TFU Weight	120 lbs (54.4 kg)
	125 lbs (56.7 kg) with boresight module
CEU Size	10.0" x 7.5" x 12.5" (254 mm x 191 mm x 318 mm)
CEU Weight	24.0 lbs (10.9 kg)

### OTHER OPTIONS & ACCESSORIES

Laser Spot Tracker, Navigation/Radar Interfaces, Displays & Recorders, Moving Map Systems, Digital Video Output

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STACE™  
Digital Image Enhancement

GEOLOCK™

