

# BRITE Star<sup>®</sup> DP

THE MOST POWERFUL MULTI-SENSOR  
TARGETING IMAGER IN ITS CLASS



## APPLICATIONS

- TARGET DESIGNATION
- ARMED RECONNAISSANCE
- SURVEILLANCE
- ATTACK

*Selected for these high-profile platforms:*



*Armed Reconnaissance Helicopter (ARH)*



*Norwegian Navy SB90 patrol boat*



*Fire Scout UAV program*



*USMC UH-1N helicopter*

## FEATURES

- 4 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/Range finder (DPLDR)
- Laser pointer (LP)
- Automatic in-flight boresighting capability
- Laser spot tracker (LST) option
- Internal Measurement Unit (IMU) and navigation processor inside
- Automatic target tracker
- All FLIR inside

## BENEFITS

- Offers a field-of-view 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 an air-to-ground tactical advantage
- Reduces preflight prep, allows for fast switching between aircraft, and allows the system to be boresighted by the operator at any time
- Reduces workload and facilitates target hand-off
- Supports precision pointing and delivers smooth steering at extreme zoom levels
- Reduces operator workload
- FLIR controls the critical technology inside every Star class gimbal ensuring the fastest service and worldwide support





## BRITE Star® DP

### THERMAL IMAGER

Sensor type	640 x 480 InSb focal plane array
Wavelength	3-5µm response
FOVs	30° to 0.45°
Magnification ratio	67X

### DAYLIGHT CAMERA

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

### LASER PAYLOADS

Designator	Type	Nd:YAG, 1.06µm
	Classification	Class 4
	Code compatibility	compatible with US and NATO laser guided munitions
Rangefinder	Max. range	10Km +/- 5m
	Classification	Class 1 (Eyesafe)
Pointer	Power	640mw
	Classification	Class 3b

### 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 Hand-held
Data	RS-232, RS-422, ARINC 429, MIL-STD-1553B, Ethernet

### ENVIRONMENTAL

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

### POWER REQUIREMENTS

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

### DIMENSIONS & WEIGHT

TFU Size	16.2" x 19.3" (410 mm x 490 mm)
TFU Weight	113.5 lbs (51.4 kg)
	125.0 lbs (56.8 kg) with boresight module
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)

### OTHER OPTIONS & ACCESSORIES

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

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