

ENHANCED CLIP-ON THERMAL IMAGER

Small Size and Lightweight

- + Small and lightweight
- + Fits into pocket
- + Minimal additional mass on helmet

Single Battery Operation or Battery Pack

+ Long operational life on single CR123A
battery (>3.5 hrs)
+ Longer battery life with O1 Smart Power Pack

Heads Up Display (HUD)

- + Import/Display RS-170 video
- + Export RS-170 video
- + 7-PIN connector
- + Connect to PC/Droid[™] for picture download and Nav File upload
- + Connect to Situational Awareness Apps (SA-Apps)
- + Connect to external accessories: GPS, Smart Power Pack, etc.

Easy Push-Mode Buttons

+ Simple buttons allow user to modify Polarity settings
+ Optimized thermal mode, brightness, capture still pics

E-COTI DATA SHEET - REV - MARCH 2021

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Clip and Go

The E-COTI easily attaches to existing Night Vision Devices (NVDs) to increase threat detection and situational awareness. Low-power consumption, thermal sensor technology, and high-performance optics integrate seamlessly to provide state-of-the-art long-wave infrared capability. With the ability to mount on NVDs with a bracket, the need to refit helmets with special equipment is eliminated. Along with being able to withstand the harshest environments, the E-COTI's rugged construction is waterproof to 66 ft.

Works with Legacy and Recently Fielded NVDs

The E-COTI enhances the functionality of NVDs by adding a thermal image overlay to the image intensified (12) scene without modification of existing hardware. Used in extreme low-light, no-light, or foliated conditions where 12 devices are limited, E-COTI improves situational awareness and increases threat detection capabilities. The E-COTI system allows for custom configuration to meet individual user needs.

Ease of Use

The compact and lightweight E-COTI attaches to NVDs in mere seconds without tools using a simple bracket.

Augmented Reality

E-COTI's Augmented Reality capability provides a Heads-Up Display (HUD) with navigation and route execution as well as real-time, geo-referenced, XML-based augmented reality. When used with Android devices, the NVD becomes a remote HUD display for identifying teammates, targets, and route points. The E-COTI allows the ability to keep eyes on the mission while the HUD eliminates the need to stop and look down at a screen. The navigation capability utilizes KML and GPX formats from Google Earth® and similar programs for simple route planning. Along with route execution, the built in 16GB SD card provides on-board storage for image capture (>10,000 .TIF images), navigation tracks, and marking capability. AIR-based routes provide real-time altitude and glide ratio 3D Landing Point information for navigation under canopy.

TECHNICAL SPECIFICATIONS

Optics	
Magnification	1x (optical unity)
Field of view	30° circular, centered
Objective	Fixed Focus

Image sensor

Sensor Type	Uncooled LWIR Microbolometer
Image Sensor	640 x 480 17 µm pixel
Wavelength	8 - 12 µm

Range performance **Thermal Range** Clear Obscured > 1400 m > 750 m Detection (2.3m NATO) Detection (0.75m man) > 450 m > 350 m Display High contrast Micro display Display (field changeable) White Hot or Black Hot Polarity view mode **Briahtness** Adjustable

SAFRAN



Power Supply

Battery	Internal: Type CR123A External: Battery Pack - 3xAA or 6xAA
Operating time (one Internal battery)	> 3.5h @ 23°C
Operating time (auxiliary battery pack)	> 8.0h @ 23°C or >16 hrs (6xAA Battery Pack)
Combined operating time (w/o change of batteries)	> 11.0h @ 23°C or >19 hrs (6xAA Battery Pack)

Physical

50 x 43 x 60 mm (ext. battery) 90 x 43 x 60 mm (int. battery)
125 g. (w/ battery and mounting bracket)
110 g. (w/ battery only) 95 g. (w/ mounting bracket)
80 g. (system only)
MIL-STD-810



with augmented reality

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