NIGHT VISION DEVICES

CLIP-ON THERMAL IMAGER

COTI Strengths:

+ Improve visibility in no-light/low-light situations including smoke and dust conditions
+ Detect thermal sources
+ See through basic camouflage
+ See into dark openings such as windows and doorways
+ Detect residual heat: see if people have been in a room or if a vehicle was used recently
+ Find people in search-and-rescue situations

Interchangeability

+ Projection optics allow complete inter-changeability between host goggles
+ Display injects image into the NVD or directly into user's FOV

Quick release

+ COTI can be easily be used alone by attach-ing an eyepiece or mounted to an existing NVD. Several mounts for different NVDs and Picatinny Rails available.

Image & video capability

+ Ability to capture and store images
+ Ability to inject video from external sources into NVDs
+ Compass information displayed in the FOV in NVDs

Small size and lightweight

+ Small and lightweight
+ Fits into pocket

Rotary ON/OFF

+ Also controls Brightness, Polarity, and Calibration

Fixed focus objective

+ Minimal user interaction

Extended operating time

+ Single CR123 battery operation
+ External power capable with optional battery pack kit

Easy push-mode buttons

+ Simple button on each side to control Viewing Mode (Full Thermal, Patrol, and Outline) and Zoom settings.

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View the World Differently

Day or night, the COTI reveals more than what is visible to the normal eye. The COTI adds a layer of thermal detection capabilities to identify heat sources - either present or residual - in any situation. COTI offers broader dimension imagery to users to assess any potential threats. While Night Vision Devices (NVDs) provide users with the ability to see in ambient or low-light environments, users get only a part of the available picture. The COTI exposes potential threats that may be hidden - i.e. in defilade, under clothing, or covered in a layer of dirt. It helps to identify and assess those situations to give users more awareness and information to make knowledgeable decisions on how to proceed with a mission.

Small and Lightweight

The small, compact, and lightweight COTI has low-power consumption that allows for extended use. COTI is waterproof to 10m and its rugged construction can withstand the harshest environments.

Interchangeability

The COTI can be easily attached to an existing NVD, with the use of a mounting bracket, to add additional thermal capabilities to the I2 system. It can also be used as a stand-alone handheld with the use of an eyepiece. Its low-power consumption, optimal sensor technology, and high-performance optics integrate seamlessly to provide state-of the-art long-wave infrared technology.

To make detection easier, the COTI offers two heat detection modes (White Hot and Black Hot) and three viewing modes (Full Thermal, Patrol, and Outline) that users can choose from to better customize the device for the situation and mission.

TECHNICAL SPECIFICATIONS

Optics

Magnification	1x (optical unity)
Field of view	20° circular, centered Fixed Focus f/1.2
Aperture	f / 1.15

Image sensor

Sensor Type	uncooled LWIR Microbolometer
Image Sensor	320 x 240 pxel
Wavelength	8 - 12 µm

Range performance

Thermal Range	Clear	Obscured
Detection	> 500 m	> 500 m
Recognition	> 300 m	> 300 m

Display

Display	Micro Display
Polarity	White Hot or Black Hot
Brightness	Adjustable

Physical

Dimensions (l x w x h)	140 mm x 38 mm x 76 mm
Weight	150 g (5.8 oz), Incl. battery
Tested	MIL-STD-810

Power Supply

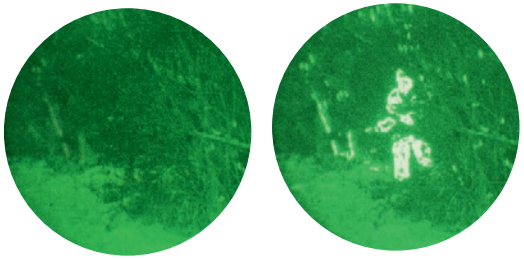
Battery	1x 3VDC Lithium, type CR 123A
Operating time (one battery)	> 3.0 h @ 23°C
Operating time (auxiliary battery pack)	> 8.0 h @ 23°C
Combined operating time (without change of batteries)	> 11.0 h @ 23°C

Identification

NOM	COTI Sovas Imager
NSN	5855-01-582-3974
NIIN	015823974
LIN	FA 5509

Multiple Modes

Full Thermal mode | Patrol mode | Outline mode



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