COTI

Accessories

Included
- Mounting Bracket (PVS-7, -14, -23 or -15, -18)
- Batteries
- Lens Cleaner
- Storage Pouch
- Operator’s Manual
- Quick Guide

Optional
- Mounting Bracket (PVS-7, -14, -15, -18, -23)
- Picatinny Mounting Bracket (PVS-22, 24, 26, UNS-SR, LR)
- Eyepiece Adaptor for COTI conversion to handheld imager
- Auxiliary Battery Pack
- Battery Pack Helmet Adaptor
- Custom Menu Configuration

Additional Information

Technical Data

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

Image sensor
Sensor Type: uncooled LWIR Microbolometer
Image Sensor: 320 x 240 pixel
Wavelength: 8 - 12 µm

Range performance
Thermal Range: Clear > 500 m, Obscured > 500 m
Recognition: > 300 m, Obscured > 300 m

Display
- Display: Micro Display
- Polarity: white hot or black hot
- Brightness: adjustable

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

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

Identification
- NCM: COTI-Sovas Imager
- NSN: 5855-01-582-3974
- NIIN: 015823974
- LIN: FA 5509

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(vector) (AN/PAS-29)
Clip-on Thermal Imaging Capability to Your NVG

+ Mounts to most P devices
+ Adds thermal capability
+ Small and lightweight
+ Extended operating time
+ Simple and easy to use
+ Attaches/detaches in seconds
+ MIL-STD-810 and battle-proven

Visit optics1.com/COTI or www.vectronix.com/COTI

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Optics 1, a Vectronix Group company, is a global technology leader in design, engineering, and production of integrated electro-optical systems for Defense applications. Our mounted equipment group manufactures high-performance, lightweight, low-power night vision goggles, clip-on thermal imagers (COTI) and integrated systems with GPS, compass, and laser range finders. The surveillance systems group can deliver large multi-spectral airborne / shipborne / and ground vehicle based surveillance systems. Leveraging core competencies in electro-optics, day and night imaging, laser range finding, and digital magnetic compass technology (DMC), Optics 1 can provide EO systems for various soldier, vehicle, and commercial applications.

**COTI and Standard issue NVGs**

The COTI enhances the functionality of currently fielded NVGs by adding a thermal image overlay to the P-Scope without modifying existing hardware. This addition of thermal imaging capability provides two major benefits: thermal detection capabilities while using most NVGs and increased situational awareness in extreme low light, no light, or foliated conditions where NVG devices are limited. In addition, the COTI system contains a powerful internal micro-processor that permits custom configuration of the unit. The variable user configuration enables the best mission centric performance.

**Clip and Go Thermal Imaging for your NVD**

The COTI easily attaches to existing Night Vision Devices (NVDs) to add additional capabilities. Low power consumption, optimal sensor technology, and high-performance optics integrate seamlessly to provide state-of-the-art long-wave infrared technology. Since COTI mounts on currently existing NVDs with a bracket, the clip-on technology allows increased capabilities without the need to retrofit helmets with special equipment.

**Small and lightweight**

The small and lightweight design consumes very little power allowing extended use. Additionally, COTI being waterproof to 66 ft and its rugged construction can withstand the harshest environments.

**Image intensified only (I²)**

Image intensified only (I²) and thermal

**Multiple modes**

Full Thermal mode

Patrol mode

Outline mode

**COTI mounted on PVS-14**

**Projects**

PVS-7

PVS-14

PVS-15

PVS-23

Picatinny Rail Mounts:

PVS-22, PVS-24, PVS-26, UNS-SFLIR

Brackets for other night vision devices on request.

**Add thermal capability**

When added to a standard I² system, COTI enables the user to detect thermal sources and improve situational awareness even in pitch black, no-light, adverse environmental conditions, recognition range extends dramatically. With COTI the user is even able to see into darkened openings and detect residual heat – situational awareness at the highest level.