

Clip on See more⁺

Add Battle Proven Thermal Imaging Capability to Your NVG

COTI (AN/PAS-29) Clip-on Thermal Imager

- + Mounts to most I² devices
- + Adds thermal capability
- + Small and lightweight
- + Extended operating time
- + Simple and easy to use
- + Attaches/detaches in seconds
- + MIL-SPEC and battle-proven



vectronix

COTI

Clip-on Thermal Imager



front view



small and lightweight

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 refit 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.

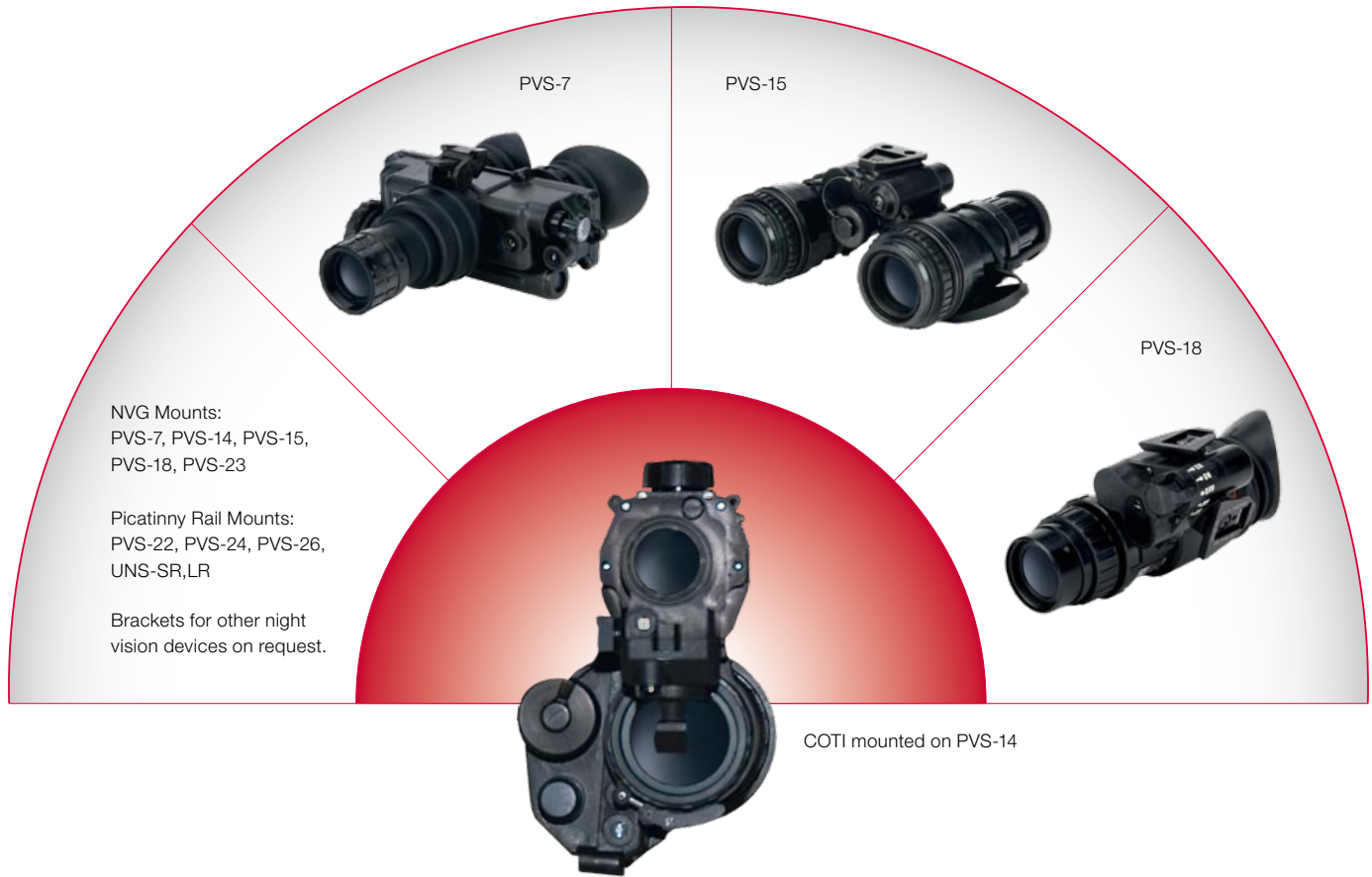


Observe & Detect – Locate & Target

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.



Mounts to most I² devices



COTI and Standard Issue NVDs

The COTI enhances the functionality of currently fielded NVD's by adding a thermal image overlay to the I² scene without modifying existing hardware. This addition of thermal imaging capability provides two major benefits: thermal detection capabilities while using most NVD's and increased situational awareness in extreme low light, no light, or foliage conditions where I² 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.

- + 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



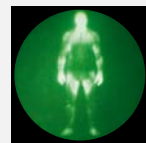
Image intensified only (I²)



I² and thermal



Full Thermal mode



Patrol mode



Outline mode

Adds 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.

Multiple modes

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



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

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 μ m

Range performance¹⁾

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

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

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

1) Verified and tested independently

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