



always a step ahead...since 1992

TIM-14

THERMAL IMAGING MULTIUSE MINI MONOCULAR



Law enforcement and public safety officers can use thermal imaging technology to conduct hidden compartment searches, perimeter surveillance, marine or ground surveillance, safer flights, structure profiling activities, fugitive and rescue searches, disturbed surface investigations, pollutant searches and vehicle pursuits.

TIM-14 is powerful tool for tactical, surveillance and scene assessment applications. Its small size and light weight make the **TIM-14** simple and yet, very effective and convenient in operation.

TIM-14 UNIQUE FEATURES:

- CNC Machined, strong, durable Aircraft Aluminum Body.
- Digital Zoom 2X.
- Black Hot/White Hot polarity switch.
- High Performance Color Display.
- Mil. Spec. Manual Gain (Brightness) Control.
- Mil. Spec. Universal Service Connector allows: Video-Out, External Power-In, Service USB-Out.
- Small, Light Weighted, Rugged, Fully Sealed and Fully Sealed, Waterproof body.
- Video-Out: standard RCA, cable included.

GSCI pleased to present Thermal Imager **TIM-14** which utilizes the most common and convenient "multipurpose monocular" type optical concept.

TIM-14 enables law enforcement personnel to see heat signatures of objects, people, and other sources. Device detects extremely small differences in temperature, so that officers can distinguish people from their immediate surroundings.

Needing no light to operate, **TIM-14** generates high-quality images on the darkest nights, even through smoke and fog. Compare that to conventional night vision equipment, which requires light or special illuminators and is incapacitated by smoke, fog, and often other particulates. While darkness and camouflage can defeat night vision, suspects cannot hide from **TIM-14**. Their own body heat gives them away.

In fire and rescue applications, thermal imaging is used to conduct scene size up, in-fire attack, search and rescue, hazmat assessments and post-fire overhaul. **TIM-14** can be used as hand held, weapon, head or helmet mounted and for long range observation with "snap-on" lens which allows to increase optical magnification up to 3X.

OPTICAL FEATURES:

Lens Size	25 mm	16 mm	8.5 mm
Field of View	11 x 8 deg.	17 x 12 deg.	32 x 24 deg.
Magnification	1.7X	1.4X	1X
Detection range of human figure	475 m	305 m	170 m
Detection range of Working Car	900 m	550 m	300 m
Lens Material	Germanium	Germanium	Germanium

GENERAL STARLIGHT COMPANY

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OPTIONS AVAILABLE:

- B&W or Full colorization of displays.
- 50 mm "snap-on" germanium lens will increase 1,5-2 times detection range.
- Head Gear "PBS-7" type. (Flip Up)
- Helmet Mount "PVS-7" type.
- Helmet Mount "PBS-7" type. (Flip Up)
- Quick Release Weapon mount.
- Shuttered, self closing Eye Guard.
- "Cross Hair" reticle.
- External Li-Ion Battery Pack with charger (good for up to 8 hours continuous use).
- Video-Out-To USB Adapter & Software.



TECHNICAL DATA:

F.P.A. Material	Microbolometer, Uncooled
Spectral Responce	7-14 um
F.P.A. Format	160 x 120
Thermal Sensitivity	<50mK
Refresh Rate	9-30 Hz
Start-Up Time	~2.5 sec.
Interface & Controls	USB 2.0
Display Type and Resolution	640 x 480 (SVGA color)
Video-Out Signal Resolution	640 x 480 NTSC
"Cross Hair" reticle	Optional
Lens Type	Germanium 8.5, 16 or 25 mm
FOV	32 x 24, 17 x 12 or 11 x 8 deg.
Magnification	1X, 1.4X or 1.7X
Diopters Adjustments	+/-6
Detection of Human Figure	~500 m
Detection Range of Idling Car	~1000 m
Polarity Control	White Hot/Black Hot *optional colorization
ZOOM Control	Digital 2X
Gain/Level control	Automatic with Enhanced Image Processing
Display Brightness Control	Manual, prevents "night blindness"
Powered By	CR123 lithium batteries, 2 pcs.
Continuous Operation time on one batteries set.	Up to 4 hours
External Power	Optional Battery Pack, 12 V DC, 110-250 V AC
Weight	400 Grams w/o batteries
Dimensions	125 x 72 x 65 mm
Head, Helmet, Weapon Mountable	Yes, optional

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