



Britannia Defence Systems Limited

Designers, Manufacturers & Integrators of Specialist
Surveillance Systems and Equipment

TIM-14

Thermal Imaging Multiuse Mini Monocular



Features

- CNC Machined, Strong and Durable
- Aluminium body
- Digital Zoom 2X
- Black Hot/White Hot Polarity Switch
- High Performance Colour Displays
- Mil. Spec. Manual Gain (Brightness) Control
- Mil. Spec. Universal Service Connector
- Small, Light Weighted, Rugged, Fully Sealed and Waterproof Body
- Video Out: Standard RC, Cable Included

Description

TIM-14 enables law enforcement personnel to see heat signatures of objects, people, and other sources. TIM-14 detects extremely small differences in temperature, so that officers can distinguish people from their immediate surroundings. Needing no light to operate, the 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. TIM-14 thermal imager is a powerful tool for tactical, surveillance and scene assessment applications.

Its small size, light weight and convenient bi-ocular eyepiece make the TIM-14 simple and yet, very effective in operation. 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. 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 a hand held, head/helmet or weapon mountable.

Optical Features

| | | | |
|----------------------------------|------------|-------------|-------------|
| Lens Size: | 25mm | 16mm | 8.5mm |
| 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: | 475m | 305m | 170m |
| Detection Range of Working Car: | 900m | 550m | 300m |
| Lens Material: | Germanium | Germanium | Germanium |

Options

B&W or full colourisation of displays
50mm "snap on" germanium lens, which 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
External Li-Ion battery pack with charger (good for up to 8 hours continuous use)
Shuttered, self closing eye guards
"Cross Hair" Reticle
Video Out to USB adapter and software



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Specifications

| | |
|---|---|
| F.P.A Material: | Microbolometer, Uncooled |
| Spectral Response: | 7-14 um |
| F.P.A Format | 160 x 120 |
| Thermal Sensitivity | <50mK |
| Refresh Rate: | 30 Hz |
| Start Up Time: | ~2.5 sec |
| Interface & Control: | USB 2.0 |
| Display Type and Resolution: | 640 x 480 (SVGA Colour) |
| Video Out Signal Resolution: | 640 x 480 NTSC |
| “Cross Hair” Reticle: | Optional |
| Lens Type: | Germanium 8.5, 16 or 25mm |
| 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 colourisation |
| 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 Charge Set: | Up to 4 Hours |
| External Power: | Optional Battery Pack, 12V DC, 110-250V AC |
| Weight: | 400 grams without batteries |
| Dimensions: | 125 x 72 x 65mm |
| Head, Helmet, Weapon Mountable | Yes, optional |