



Britannia Defence Systems Limited

Designers, Manufacturers & Integrators of Specialist Surveillance Systems and Equipment

TIG-7

Thermal Imaging Binoculars Goggles



Features

- 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

TIG-7 enables law enforcement personnel to see heat signatures of objects, people, and other sources. TIG-7 detects extremely small differences in temperature, so that officers can distinguish people from their immediate surroundings. Needing no light to operate, the TIG-7 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 TIG-7. Their own body heat gives them away. The TIG-7 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 TIG-7 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. TIG-7 can be used as a hand held Thermal Imager or head/helmet mounted thermal imaging goggles. Conveniently powered by external battery pack, which is very useful in extremely cold environment.

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
- Head gear "PBS-7" type (flip up)
- Helmet mount "PVS-7" type
- Helmet Mount "PBS-7" type (flip up)
- Shuttered, self closing eye guards
- External Li-Ion battery pack with charger (good for up to 8 hours continuous use)
- 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:	AA type lithium or rechargeable batteries, 2 pcs
Continuous Operation Time on One Charge/Batteries Set:	Up to 4 Hours
External Power:	Optional Battery Pack, 12V DC, 110-250V AC
Weight:	450 grams without batteries
Dimensions:	150 x 145 x 70mm
Head, Helmet Mountable	Yes, optional