



# Britannia Defence Systems Limited

Designers, Manufacturers & Integrators of Specialist  
Surveillance Systems and Equipment

## TIB-5

### Thermal Imaging Long Range Binoculars

#### Features



CNC Machined, Strong and Durable

Aircraft Aluminium Body

Tripod Mountable

Digital zoom 2x and 4X Control

Black Hot/White Hot Polarity Switch

“Refresh” button Switch

High Performance Colour Display

Mil. Spec. Universal Service Connector

Fully Sealed, Waterproof body

Video Out: Standard RCA, Cable Included

#### Description

Thermal Imaging Long Range Binoculars TIB-5 enables law enforcement and military personnel to see heat signatures of objects, people, and other sources. TIB-5 detects extremely small differences in temperature, so that officers can distinguish people from their immediate surroundings. Needing no light to operate, the TIB-5 generates high-quality images 24 hours, during the day or at night, 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 TIB-5. Their own body heat gives them away. The TIB-5 thermal imager is a powerful tool for tactical, surveillance and scene assessment applications. Its small size, light weight and ability to be weapon mounted make the TIB-5 simple and yet, very effective in operation

#### Options

Digital Compass and Altimeter

B&W or Full Colourization of Displays

Shuttered, Self Closing Eye Guard

External Li-Ion Battery Pack with Charger (good for up to 8 hours continuous Use)

Video-Out to USB Adapter & Software

“Snap-ON” 50 mm Germanium Lens will Increase Detection Range

Tripod

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#### Specifications

<b>F.P.A Material:</b>	Microbolometer, Uncooled
<b>Spectral Response:</b>	7-14 um
<b>F.P.A Format</b>	320 x 240
<b>Thermal Sensitivity</b>	<50mK
<b>Refresh Rate:</b>	30 Hz
<b>Start Up Time:</b>	~4 sec
<b>Interface &amp; Control:</b>	USB 2.0
<b>Display Type and Resolution:</b>	640 x 480 (SVGA Colour)
<b>Video Out Signal Resolution:</b>	640 x 480 NTSC
<b>“Cross Hair” Reticle :</b>	Optional
<b>Lens Type:</b>	Germanium 50 mm
<b>FOV:</b>	12 x 9 deg
<b>Magnification:</b>	2.5X
<b>Diopters Adjustments:</b>	±6
<b>Detection of Human Figure:</b>	~1000 m
<b>Detection Range of Idling Car:</b>	~2000 m
<b>Polarity Control:</b>	White Hot/Black Hot * optional Colourisation
<b>Zoom Control:</b>	Digital 2X or 4X *total up to
<b>Gain/Level Control:</b>	Automatic with Enhanced Image Processing
<b>Display Brightness Control:</b>	Manual, prevents “Night Blindness”
<b>Powered By:</b>	Built in Li-Ion Rechargeable Batteries
<b>Continuous Operation Time on One Charge/Batteries Set:</b>	Up to 8 Hours, Up to 1000 Charge Cycles
<b>External Power:</b>	Optional Battery Pack, 12V DC, 110-250V AC
<b>Weight:</b>	1000 Grams
<b>Dimensions:</b>	210 x 110 x 70mm
<b>Tripod Mountable:</b>	Yes