

# TiCAM<sup>®</sup> 600

## Thermal Imaging Monocular



Military • Search & Rescue • Border Security • Marine Surveillance • Wildlife Monitoring • Police

**Thermal Night Vision**

 **Thermoteknix**  
Systems Ltd

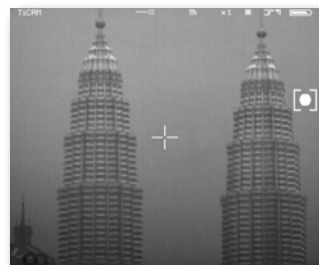
# TiCAM® 600 - Thermal Imaging Monocular

## Handheld Thermal Imaging

TiCAM® 600 is a medium-range Military Specification handheld thermal imager for military and civilian applications including special forces, search & rescue, police, border security, target acquisition, counter drug operations, park rangers monitoring wildlife/illegal game hunters, VIP protection and for general situational awareness. TiCAM 600 will detect a man at over 2 kilometres. Two models are available: TiCAM 600 is based on a Thermoteknix MicroCAM 384x288 17 $\mu$  pitch detector. TiCAM 600+ features a higher resolution 640x480 detector with 17 $\mu$  pitch.

## Waterproof - Rugged - Reliable

TiCAM 600's ergonomic clamshell design is waterproof, protects the camera in the harshest of environments and allows operation with or without gloves. The combination of TiCAM's class-leading MicroCAM® thermal imaging core and high-end Germanium 60mm lens with Hard Carbon protective coating delivers the sharpest imagery in a supertough, low power package. Functions include electronic focus & digital zoom, edge detection, external video output and optional Digital Magnetic Compass, GPS, Internal Real-Time Digital Video Storage and 11 hours operation from 4x AA batteries.



## Laser Target Marker

TiCAM 600 is available with either a 650nm (visible to the naked eye) red laser target marker or 850nm laser (visible with Night Vision/Image Intensifiers)



## Record

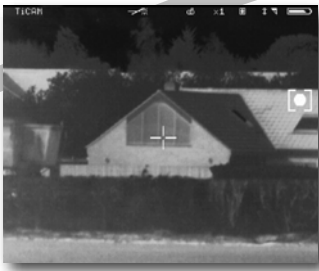
TiCAM 600 records up to 11 hours of high quality digital video (48 hours on lower resolution), or over 60,000 still images. The data is simply downloaded to PC using TiCAM Sync software supplied with the video record option. This allows the images to be viewed and then deleted from the TiCAM as necessary or downloaded onto a USB memory stick. The unit also has external power input and a standard BNC video which can be connected to an auxiliary third party screen recorder.



## TiCAM Remote Control Software

TiCAM Remote Control software enables full remote PC control of the camera and all its functions via cable (up to 5m with USB or 20m with RS232). With USB, live video is displayed and can be recorded direct to a PC hard disk.

# TiCAM® 600



## TiCAM® 600 Features Overview



GPS



Laser Pointer



Black /  
White Hot



Manual /  
Auto Gain



Digital  
Magnetic  
Compass



Hard Carbon  
Protective Coating



4 x AA Batteries



Video Record



Edge Enhance



Range Finder  
Reticule



Waterproof  
and floats



Digital  
Zoom



PC Connectivity/  
Remote Control



USB  
Data Download

## TiCAM Internal Menu Overlays

TiCAM 600's screen overlays display clear, accurate information and provide instant access to camera status. These include battery level, zoom position, range finder (man distance measurement) reticle, focus, gain mode, polarity, record options, reticle, GPS and DMC readings, image enhancement and any external connectors in use. All this information is recorded within every image/video sequence for later retrieval.



Range Finder Reticule Overlay (Metres)

## TiCAM 750

Thermoteknix TiCAM 600 is designed for demanding use by surveillance professionals. Whether for covert operations, search and rescue or identifying poachers in a game reserve, TiCAM 600 delivers the highest quality thermal imagery with an array of features in a high spec package.

# TiCAM® 600

TiCAM 600	
Detector (Uncooled)	Amorphous Silicon Microbolometer: TiCAM 600 (384 x 288) 17µ pitch, LWIR TiCAM 600+ (640 x 480) 17µ pitch, LWIR
Instant On	Power on Time < 3 seconds
Battery Life	Battery: 4x AA - Rechargeable (up to 8 hours operation) Lithium Iron Disulphide (Up to 11 hours operation)
Export Control	Subject to UK/EU Regulation Not subject to US ITAR Regulation
Tripod Mount	1/4" - 20

System Characteristics	
Lens	60mm f/1.2
Horizontal Field of View	TiCAM 600 HFOV = 5.2° TiCAM 600+ HFOV = 10.4°
Operation Distance	5m to Infinity
NETD	<60 mK

Physical Characteristics	
Colour	Black
Size	201mm x 94mm x 70mm
Weight	450g including batteries
Lens coating	Hard Carbon Protective Coating
Lens Cap	Integral Captive Rubber

Environmental Characteristics	
Low Temperature Operation	MIL-STD-810G Method 501.5 Procedure II & III (Low Temperature) Range C1
High Temperature Operation	MIL-STD-810G Method 502.5 Procedure II (High Temperature) Range A1
Immersion	MIL-STD-810G Method 512.5 Procedure I
Random Vibration	MIL-STD-810G: Method 514.6: Procedure I
Transit Drop	MIL-STD-810G: Method 516.6: Procedure IV: Transit Drop

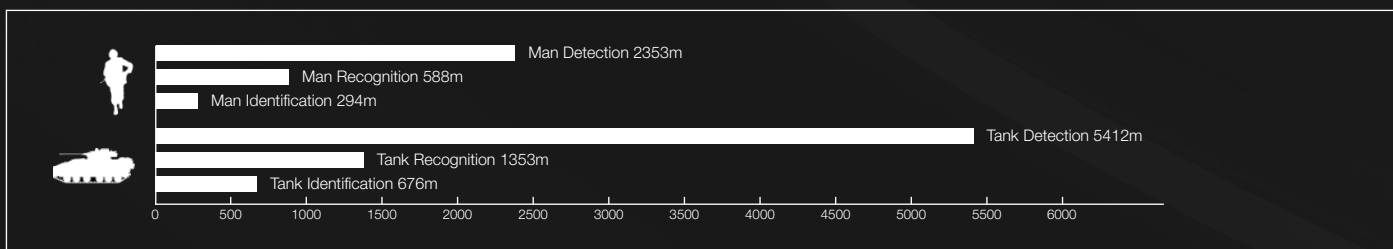
Electrical Characteristics		
Battery Size	4 x AA Lithium Primary (as standard) Optional 4 x AA NiMH rechargeable (variable duration)	
TV Video	384 model: 640 model:	50Hz Monochrome PAL (CCIR) standard 60Hz Monochrome NTSC (EIA 'RS-170')
Video Output	Yes, Composite 1V peak to peak	
External Interface Connector	RS232 / Video Out / Power In	

Controls	
Power	On/Off
Focus Mechanism	Manual
Polarity	White Hot/Black Hot
Electronic Zoom	x1, x2, x4

Display Characteristics	
Type	OLED 800x600 pixels
Eyepiece Adjustment	-2 to +6 Dioptres
OLED Brightness	Adjustable
Gain	Manual/Auto
Display Graphics	Battery Status/Gain Mode/Polarity/ Zoom

Optional Features	
<b>Built-In GPS L1</b> Commercial Frequency - Location Accuracy ± 2.5m geographic or military grid co-ordinates UTM or MGRS (user selectable)	
<b>Built-In Digital Magnetic Compass</b> 3 Axis Sensors Heading - Magnetic North - Bearing & Elevation On Screen Display - On/Off	
<b>Built-In Record Video Facility</b> Up to 11 hours intermittent/continuous recording in MPEG-4 Part 2 (MPEG-4 Visual) SP format saved to 16GB internal memory	
<b>Laser Target Marker</b> - 650nm (visible) or 850nm (night vision detectable)	
<b>Remote Control:</b> TiCAM Remote Control Software	

## Detection, Recognition and Identification - DRI (Based on Johnson Criteria)



Thermoteknix TiCAM® products are not subject to US ITAR control but may require UK export licence depending on the end-user country and specification. Not all features present on all models. TiCAM® is a registered trademark of Thermoteknix Systems Ltd. Specifications subject to change. TiCAM® is designed and manufactured in the UK.

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