

TiCAM[®] 1000

Laser Range Finder Target Locator



TiCAM[®] 1000

TiCAM 1000 is a versatile target acquisition and observation sensor for day and night-time use. The device has a direct-view optical channel for daytime use, a MicroCAM high resolution uncooled thermal imager, laser range finder, digital magnetic compass & GPS.

Lightweight and compact, TiCAM 1000 is suitable for forward observation squads, infantry, border security and special units with varying levels of training.

TiCAM 1000 operates from AA, Li-Ion or external power. The day-time direct-view channel needs no power, and other functions consume power only when used. It can be connected to different combat and command systems, using either a cable or wireless connection. In addition to its role as a transmitter of location information and coordinates, TiCAM 1000 can be used as a receiving terminal from external DMC/GPS.

TiCAM 1000 is fully operational regardless of environmental circumstances and is able to measure a target's location information accurately up to a distance of 6km, irrespective of the target's global location.



- Uncooled thermal imager
- Optical day channel
- Eyesafe laser range finder
- Digital magnetic compass
- Global Positioning System (GPS)
- C4I connectivity
- Bluetooth
- Wireless connection
- Thermal/visible still image and video capture
- External control & display

more than just an image...

TiCAM® 1000**Thermal Imaging Module**

Type	Uncooled MicroCAM®
Resolution	640 x 480 17µm
Wavelength range	8-12 µm
Focal length	100mm
FOV	6.2° x 3.8° (Electronic zoom x2, x4)
Recording	Digital

Optical Channel

Magnification	x4.6
FOV	4.7° x 3.1°
Dioptr adjustment	+2 to -2 dptr.
Object lens diameter	28 mm
Exit pupil diameter	5.8 mm
Light transparency factor	0.4
Laser Safety class 880-2000 nm	OD4

Day Camera

CCD size	1/3"
SNR	58dB (typical)
Resolution	470,000 Pixels PAL/NTSC
SDNR	Yes
Low-light Function	AGC / SENS-UP
Recording	Digital

Laser Range Finder

Class	1
Wavelength	1550 nm
Pulse Burst Repetition Frequency	0.5 Hz
Average Output Power	7.8 mW
Measuring error of distance	< 2 m
Min. Beam Divergence	0,3 x 1,2 mrad
Range	6km

DMC & GPS

DMC	World Magnetic Model (WMM) WG584/UTM/MGRS Selectable
GPS	L1 C/A / Mil GPS Selectable

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Data Storage

Sensor Position
Target Position
Azimuth
Elevation
Distance
Date/Time
Visible/Thermal Image

Connectivity

Bluetooth (image, video, target data)
USB (real time display, control, storage)
PAL/NTSC video
MIL GPS
RS232
12/24V DC input

Options

External DMC Input
Kill Flash Panels

Environmental

MIL-STD-810 and MIL-STD-461

Dimensions and weight of TiCAM 1000

Total weight (operational)	3 kg
Dimensions (W x L x H)	250 x 205 x 100 mm

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