

TFN TD 97 binocular handheld thermal imager



TFN TD97 Is a High-quality Product Designed and Produced According to Scientific Ergonomic Structure by Adopting International Advanced High Sensitivity Uncooled Infrared Focal Plane Detector, Excellent Imaging Circuit Components and Optimized Optical Systems. This Product Has Good Infrared Imaging Effect, Small and Light Size, Low Power Consumption, Simple Control, Light and Portable Appearance Structure, Good Grip Hand Feeling, High-Resolution Infrared Sensor, Ultra-Low Power Consumption, quick Start, Simple Control, Compact and Stable Structure.

TFN TD97 Is a Product with Medium and Long Distance Performance Using Long Focus Lens. It Can Be Used for Handheld Or Fixed Observation, Night Reconnaissance, Evidence Collection and Target Search, and Has the Function of Taking Photos/Video Evidence Collection, video Images Can Be Recorded for a Long Time. The Product Uses a Single Built-in Rechargeable Battery, and the Continuous Working Time Can Reach 6 Hours. In Addition, It Has Advanced Quick Start Performance and Will Not Interrupt Or Freeze Images Due to Correction Operation, Thus Significantly Improving the Quick Response Capability of Users.

I. Product Features

It has the functions of photographing and video obtaining evidence, and can record video images for a long time.

Single built-in rechargeable battery, continuous working time up to 6 hours

Highly sensitive uncooled infrared focal plane detector, excellent imaging circuit components and optimized optical system

Small and light size, low power consumption, simple control, light and portable appearance structure, ergonomic structure

Ultra-low power consumption, fast start-up, simple control, compact and stable structure, suitable for harsh battlefield environment

II. Application fields

It Plays a Role in Anti-Terrorism, Investigation, Border Defense, Anti-Drug Night Vision, Border Patrol, Border Inspection Station Monitoring, Water Search and Rescue, Prison Monitoring, Night Vision Patrol and Epidemic Prevention.

III. Technical parameters

Product Model	TFN TD97
Detector type	Uncooled focal plane
Detector specifications	640×480@17μm
Working Band	8 ~ 14μm
Frame rate	50Hz
Sensitivity	< 60mK@300k
Eyepiece	800 × 600LED binocular micro display

Image processing

Imaging time	<5 seconds
Image noise reduction	Digital filtering
Image adjustment	Automatic/manual adjustment
Electronic zoom	×2/×4

Optical parameters

Lens focal length	75mm/F1.0
Field angle	8.3°×6.2°
Focusing mode	Manual

Functions and storage of photographing and video recording

Photographing function	JPEG format photo
Video recording function	MPEG 4 format video
Record Storage and output	Record format 640 × 480
(Optional)	Built-in 16G card; USB 2.0 interface output

Observation distance

Personnel (1.7 m x 0.5 m) Detection: 2.0km identification: 0.7km

Vehicle (2.3m × 2.3m) Detection: 3.5km identification: 1.5km

Power parameters

Power supply A 26650 rechargeable lithium battery 3.7V @ 5000mAh;

Operating voltage range DC : +2.8V ~ +5.0V

Normal operating power consumption <3.0W

Working hours Continuous working hours: ≥ 6 hours

Environment physical parameters

Product protection level IP66

Anti-vibration Sweep frequency 5-200-5Hz, acceleration 2.5g

Impact resistance 30g/11Ms half sine wave

Storage Temperature -40°C ~ +60°C

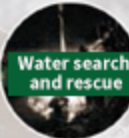
Operating temperature -30°C ~ +50°C

Product Weight <1.2kg (excluding battery)

Overall size (mm) 220 (L) × 170 (W) × 85 (H)

Binocular handheld thermal imager

- Equipped with photography, video recording and evidence collection functions, capable of long-term recording of video images
- A single built-in rechargeable battery can work continuously for up to 6 hours;
- Highly sensitive uncooled infrared focal plane detectors, high-performance imaging circuit components, and optimized optical systems
- Compact and lightweight, low power consumption, simple operation, lightweight and portable ergonomic structure
- Ultra low power consumption, fast start, simple operation, compact and stable structure, suitable for use in harsh battlefield environments



Product parameters

Model	TD97	
Detector type	Uncooled focal plane	
Detector specifications	640x480@17μm	
Working band	8~14μm	
Frame rate	50hz	
sensitivity	< 60mK@300k	
eyepiece	800x6000LED binocular micro display	
image processing	Imaging time	<5 seconds
	noise reduction	digital filtering
	image adjustment	Automatic/manual adjustment
	Electron doubling	x2/x4

Optical parameters

focal length	75mm/F1.0
Field of view angle	8.3°×6.2°
Focus Mode	hand movement
Photo and video recording function and storage	
Photography function	JPEG format photos
Recording function	MPEG4 format video
Record storage and output (optional)	Record format 640 × four hundred and eighty Built-in 16G card: USB20 interface output
Observation distance	
Personnel (1.7mx0.5m)	Detection: 2.0km Identification: 0.7km
Vehicle (2.3mx2.3m)	Detection: 3.5km Identification: 1.5km

Power parameters

Power supply	A 26650 rechargeable lithium battery 3.7V@5000mAH
Operating voltage range	DC : +2.8V~+5.0V
Normal operating power consumption	<3.0W
working hours	Continuous working time: ≥ 26 hours
Product protection level	
Anti vibration	Ip66
Impact resistance	Sweep frequency 5-200-5Hz, acceleration of 2.5g
Storage temperature	-40°C~+60°C
Operating temperature	-30°C~+50°C
Product weight	< 1.2kg (excluding battery)
Overall size (mm)	220 (L) x170 (W) x85 (H)

Environmental physical parameters