

TFN TD87

BINOCULAR Multifunctional fusion night vision instrument

With GPS positioning WIFI function Electronic compass



Product function point

÷



CMOS sensing

Range finder



COMPASS

Range finder



Range finder



Low light level technology

Range finder



infrared thermography

Range finder



optical system

Range finder



- Electric focusing+remote focusing button; In menu mode, move the menu up button
- Take a photo and video button, short press take a photo, long press record
- Electric focusing focusing proximity button; Move menu down button in menu mode
- 4 Thermal image amplification white light amplification button
- Press and hold the hot image, white light, fusion, and fusion color picture in picture switch button to pop up the menu and confirmation button in the upper left corner of the image.
- Switching the pseudo color of thermal images in thermal imaging mode

The TEN TD87 fusion telescope adopts integrated technologies such as low illumination CMOS, infrared thermal imager, electronic compass, video compression storage and control, and can be used day and night for tactical reconnaissance, surveillance, and identification of camouflaged targets. It has the characteristics of small size, light weight, convenient carrying and use, and good environmental adaptability. This telescope is easy to carry by a single person for cuttingedge observation, and is also suitable for fixed observation stations to observe, take photos, and record targets day and night. It can be widely used in various occasions such as patrols, investigations, law enforcement, smuggling, drug control, forest fire prevention, and maritime search and rescue.

Multifunctional fusion night vision instrument Product Features

Realize effective observation of specific areas or targets around the clock, quickly discover, identify, and track targets of interest



- Having the advantages of both low light and thermal imaging, there are multiple observation modes to choose from, which can better meet the observation needs of different scenes and personnel
- The observed information is richer, the details are more perfect, the scene is easier to understand, and the effective detection and recognition distance is farther
- The observed targets are more obvious, which is conducive to faster and more accurate detection of targets in hidden camouflage backgrounds. The use of image fusion color night vision mode is particularly prominent
- Observing images is more natural and in line with human eye habits, which can significantly improve the target recognition performance of the human eye and reduce fatigue
- Meet the needs of all-weather combat, and can be observed and used in dark nights, completely dark enclosed environments, and harsh weather conditions
- Small size, light weight, comfortable and convenient to use, long working time, and good environmental adaptability, meeting the relevant requirements of GJB150

application area

Suitable for special service forces such as the public security, armed police, and others, to achieve effective observation of specific areas or targets around the clock, and to quickly discover, identify, and track targets for attention; It is also suitable for industries such as fire protection, electricity, and petroleum to achieve day and night monitoring of specific areas or equipment

Multifunctional fusion night vision instrument high-definition mirror surface

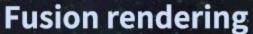
The multifunctional fusion night vision instrument processes the images of infrared thermal imaging and low light level sensors through algorithms, and fuses the two images in a certain proportion, with a focus on highlighting thermal targets



Fusion rendering

The multifunctional fusion night vision instrument processes the images of infrared thermal imaging and low light level sensors through algorithms, and fuses the two images in a certain proportion, with a focus on highlighting thermal targets









Product parameter

Main technical indicators and specifications

Project	Ke	Key performance indicators				
Infrared action distance (same day and night)		People (1.8m x	0.5m) Vehicl	e (2.3m x 2.3m)	① Visibility is not less than 10km, humidity is not more than 60% target and background temperature difference is not less than 2K; ② Detection, identification and	
	Detection range	1470	4510			
	Recognition distance	368	1128			
	Identification distance	184	564		identification distance according to Johnson criterion	
Infrared lens	Focal length	50mm lens				
inirared tens	Field of view Angle	12.4°x7°				
	Detector type	Uncooled focal plane array detector				
	Number of effective pixels	384 x 288				
	Spectral range	8-14 um				
Sales Control of	Noise equivalent temperature difference	<35mK			@F1.0,300K	
Infrared detector	Frame frequency	50Hz				
	Signal-to-noise ratio	56DB				
	Non-uniformity correction	Automatic/manual correction			×	
	Image processing	Digital Image Detail Enhancement (DDE)				
	Digital doubling	1 to 4 times				
		Illuminance 10'lx	Illuminance 10-2 lx	Illuminance 10-3 lx	(1) Visibility is not less than 10km;	
Shimmer action distance	Detecting distance to people	1470m	1200m	980m		
	Identify distance to people	368m	300m	254m	② Detection, identification and identification distance according to the Johnson criterion.	
	Identification distance to people	184m	160m	130m		

	Focal length	35mm			g.	
Low-light lens	Field of view Angle	12.4° x 7°				
	Detector type	Low illumina	ation color CM	IOS detector	20	
Low-light detector	Detector Size	6um				
	Number of effective pixels	1280x720				
	Dynamic range	76DB				
	Frame rate 50Hz	50Hz				
	Signal-to-noise ratio	Illuminance 10-11x	Illuminance 10-2lx	Illuminance 10-3		
		60db	55db	45db		
	mode	OLED HD binocular display				
Image display	Resolution	1024 x 768				
Non-uniformity	Image polarity	White heat/Bl picture-in-pic gray/fuse blac				
Image processing	Built-in storage	16GB TF card				
Storage function Digital doubling	Video format	AVI				
Features	Continuous working hours	5 hours				
	Machine weight	1.51kg				
	Overall size	189.4mm x 1	94mm x 72.9n			
	Power port	DC12V				
intoufono	Video output	VGA				
interface	Data interface	USB2.0				
,	Control interface	RS232				
Environmental indicators	Operating temperature	-40° C to +55°	С			
	Storage temperature	-50° C to +60° C				
	Humidity	< 90%				
	Level of protection	IP67				
Optional features	Electronic compass	Azimuth accuracy <0.5° Pitch accuracy <0.3°				
	GPS	Positioning ac	curacy ±10m (2.5km)			
	WIFI	have				

Related accessories



1 multi-functional fusion night vision device, 1 set of charger, 1 data cable, 4 18650 low-temperature batteries, 1 manual, and 1 packaging box

Product display





