TN Normae Series

Handheld Thermal Binoculars

Introduce

TN Normae Series follows classic binocular design, greatly reducing the fatigue feeling of long-time observation. It adopts high-sensitivity VOx uncooled IR detector, bring you high quality imaging and immersive observation experience with full color OLED 1024×768 high-definition display. A variety of functions to meet all your needs, such as taking photos, videos, WIFI, laser ranging, GPS, compass, etc.

Features and Benefits

o IR resolution up to 640 × 480, Superior image quality

o Quick location, laser ranger finder with 600m accuracy

o Full color OLED 1024×768 high-definition display, easy observation

o Adjustable interpupillary distance between 60mm~70mm

o Well-designed PIP mode, highlighting the target

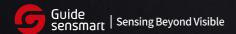o Realize live image and remote control via WIFI connection

Application

o Night hunting

o Law enforcement

o Search & Rescue

o Personal security

NEW

Specifications

Model	TN430	TN450	TN630	TN650
Detector				
Detector Type	400×300 @17μm, VOx		640×480@12μm, VOx	
Spectral	8μm ~ 14μm			
NETD	≤50mk			
Lens				
Focal Length	35mm/F1.2	50mm/F1.2	35mm/F1.2	50mm/F1.2
FOV	11.1°×8.3°	7.8°×5.8°	12.5°×9.5°	8.8°×6.6°
Focusing	Manual Focus			
Display				
Screen	Full-color 0.39'OLED Screen ×2，1024×768			
Eyepiece	Exit pupil distance 16.4mm, Adjustable diopter -4~ + 2, Adjustable interpupillary distance between 60mm~70mm			
Magnification	2.3X~9.2X	3.2X~12.8X	2.0X~16X	2.8X~22.4X
Imaging				
Frame Rate	50Hz			
Digital Zoom	1X~4X (Smooth zoom)		1X~8X (Smooth zoom)	
Color Palettes	White Hot, Black Hot, Customized red hot, Blue Hot, Red Hot, Green hot			
Scenes Modes	Enhanced, Highlight, Natural			
Picture-in-picture	Picture-in-picture enlarged image is displayed on the upper left, upper middle or upper right			
Functions				
Photo	√	√	√	√
Video	√	√	√	√
Hotspot Tracking	√	√	√	√
Laser Designating	Red Yellow Green			
Laser Ranging	Single ranging or continuous ranging			
Wi-Fi/APP	Wi-Fi share photo and video, also can controlled by App(IOS & Android)			
Compensation Modes	Auto Compensation / Shutter Compensation / Scene Compensation			
Other	Smooth Magnification, Image Enhancement, Brightness and contrast of image are adjustable, GPS, Compass, Gyroscope, Bluetooth, etc.			
Power Supply				
Battery Type	Removable Standard 18650 Li-ion battery x2			
Working Time	≥6h			
Interface				
USB	TYPE C (USB 2.0 standard) for charging, Data tranmission			
Video Output	Micro HDMI			
Tripod Interface	Inch 1/4-20			
Memory Card	Built-in 16GB SD card,Max. support 128G			
Environmental Characteristics				
Operating Temperature	-30°C ~ 50°C			
Storage Temperature	-40°C ~ 60°C			
Encapsulation	IP66, 1-meter drop test			
Certificate	UN38.3 (Battery certificate), RoHS, CE, FCC, EAC			
Weight & Dimensions				
Weight	860g	880g	860g	880g
Dimensions	162mm×146mm×70mm			
Package Contents				
Standard	Power adapter, Type-C USB cable, Micro HDMI cable, Lens cover, Wrist strap, Removable shading eye blinders x2,Portable package, Quick Start Guide			
Optional	Hand shank, Picatinny rail, Remote Control			

Detection Range	Recognition Range			Unit: m
	TN430	TN450	TN630	TN650
1.8m×0.5m	1000 / 500	1400 / 700	1400 / 700	2000 / 1000
2.3m×2.3m	2400 / 1000	3000 / 1400	2800 / 1400	3300 / 2000

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Guide Sensmart Tech Co., Ltd.

Loeffelholzstrasse 20, Haus 12 Eingang Nord, 90441 Nuremberg, Germany

Email: enquiry@guide-infrared.com