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<https://guide.nt-rt.ru> || [ged@nt-rt.ru](mailto:ged@nt-rt.ru)

# 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

- IR resolution up to 640 × 480, Superior image quality
- Quick location, laser ranger finder with 600m accuracy
- Full color OLED 1024×768 high-definition display, easy observation
- Adjustable interpupillary distance between 60mm~70mm
- Well-designed PIP mode, highlighting the target
- Realize live image and remote control via WIFI connection



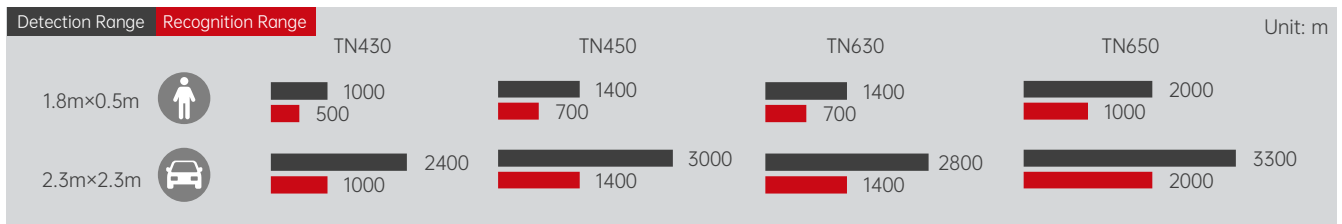
**NEW**

### Application

- Night hunting
- Law enforcement
- Search & Rescue
- Personal security

# Specifications

Model	TN430	TN450	TN630	TN650
<b>Detector</b>				
Detector Type	400×300 @17μm, VOx		640×480@12μm, VOx	
Spectral	8μm ~ 14μm			
NETD	≤50mk			
<b>Lens</b>				
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			
<b>Display</b>				
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
<b>Imaging</b>				
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			
<b>Functions</b>				
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			
<b>Power Supply</b>				
Battery Type	Removable Standard 18650 Li-ion battery x2			
Working Time	≥6h			
<b>Interface</b>				
USB	TYPE C (USB 2.0 standard ) for charging, Data transmission			
Video Output	Micro HDMI			
Tripod Interface	Inch 1/4-20			
Memory Card	Built-in 16GB SD card, Max. support 128G			
<b>Environmental Characteristics</b>				
Operating Temperature	-10°C ~ 50°C			
Storage Temperature	-30°C ~ 60°C			
Encapsulation	IP66, 1-meter drop test			
Certificate	UN38.3 (Battery certificate), RoHS, CE, FCC, EAC			
<b>Weight &amp; Dimensions</b>				
Weight	860g	880g	860g	880g
Dimensions	162mm×146mm×70mm			
<b>Package Contents</b>				
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			



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