

TN Series

Handheld Thermal Imaging Binoculars

outdoor

Fearless the darkness, All in your eyes

Introduction

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 AMOLED 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

- o IR resolution up to 640 × 480, Superior image quality
- o Quick location, laser ranger finder with 1000m/1500m accuracy
- o Full color AMOLED 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

Applications

- o Night Hunting
- o Search & Rescue
- o Law Enforcement
- o Personal security



Specifications

Product model	TN430	TN450	TN630	TN650
Sensor				
Type	Uncooled VOx Infrared Detector, 8 to 14μm			
Resolution	400×300@17μm		640×480@12μm	
NETD	30mK			
Frame rate	50Hz			
Lens				
Objective lens	35mm, F1.2	50mm, F1.2	35mm, F1.2	50mm, F1.2
Field of view	11.1°×8.33°	7.78°×5.84°	12.52°×9.41°	8.78°×6.59°
FOV m@100m	19×15	14×10	22×16	15×12
Magnification	2.3x~9.2x	3.2x~12.8x	2.0x~16.0x	2.8x~22.4x
Detection range	1300m/1400yd	1800m/1950yd		2600m/2800yd
Display				
Display type	0.39" AMOLED 1024×768			
Color palettes	Black Hot, White Hot, Adjustable Red Hot, Iron Red, Blue Hot, Green Hot			
Eyepiece	Exit pupil distance 16 mm; Diopter: -6 to +6; Interpupillary distance adjustment: 60mm to 70mm; Zoom: 13.8x			
Hardware				
Laser rangefinder	1000m/1090yd		1500m/1630yd	
WIFI	2.4G			
Interface	USB Type-C; Micro HDMI			
Others	GPS, Compass, Gyroscope, Bluetooth			
System				
Recording function	Photo/Video			
Memory capacity	16GB			
Power				
Battery type	2 replaceable 18650 batteries			
Operating time	5.5 hours			
Environmental				
Operating temp.	-30 °C to 50 °C / -22°F to +122°F			
Encapsulation	IP66			
Physical				
Weight(g/oz)	860/30.34	880/31.04	860/30.34	880/31.04
Size(mm/in)	162×146×70/6.38×5.75×2.76			
Standard	Device, lens cap, 2 detachable eye masks, carry bag, shoulder strap, 5V2A adapter (US, Britain, Australia and Europe), 2 replaceable 18650 batteries, Battery charger, USB Type-C cable, micro HDMI cable, quick start guide			
Optional	Extended bracket, Bluetooth remote control			

* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors. All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.