

Fearless the darkness, All in your eyes

TN Series

Handheld Thermal Imaging Binoculars

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

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

Applications

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



Specifications

Product model	TN430	TN450	TN630	TN650	
Sensor					
Туре	Uncooled VOx Infrared Detector, 8 to 14µm				
Resolution	400×300@17µm		640×48	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		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				