

GUIDE

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
- Search & Rescue
- Personal security



Specifications

Product model	TN430	TN450	TN630	TN650
Sensor				
Type	Uncooled VOx Infrared Detector, 8 to 14 μ m			
Resolution	400×300@17 μ m		640×480@12 μ m	
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			