

Normae Series Handheld Thermal Imaging Binoculars

Fearless the darkness, All in your eyes



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
- 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
- o Realize live image and remote control via WIFI connection



Application

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

Specifications

Model	TN430	TN450	TN630	TN650
Infrared Detector				
Detector type	VOx			
Detector resolution and pitch	400 × 300, 17 μm 640 × 480, 12 μm			
Spectral range	8 to 14 μm			
NETD	≤30mk			
Frame rate	50 Hz			
Lens				
Focal length	35 mm; F1.2	50 mm; F1.2	35 mm; F1	50 mm; F1.2
Focus		Ma	nual	
Field of view	11.1° × 8.33°	7.78° × 5.84°	12.52° × 9.41°	8.78° × 6.59°
Optical zoom	2.3x	3.2x	2.0x	2.8x
Digital zoom	1 - 4x 1 - 8x			
Power				
Battery type	2 replaceable 18650 batteries			
Battery life		≥ 5.5	hours	
Interface		T 0 (100 0 0 1 1 1)		
USB	Type C (USB 2.0 standard), supporting power supply and data access			
Video interface	micro HDMI External Display and Plusteeth remote control			
External expansion Mechanical interface	External Display and Bluetooth remote control UNC ¼*-20 (Tripod mounting, L-bracket is required), Picatinny			
		UNC ¼ -20 (Tripod mounting, L	L-bracket is required), Picatinny	
Display Display type		0.00".0	DIED × 2	
Resolution	0.39" OLED × 2			
Eyepiece	1024 × 768			
Eyepiece zoom	Binoculars, exit pupil distance≥16 mm, diopter adjustment: -4 to + 2 13.8x			
Video output	Digital video			
Functions		Digita	ii video	
PIP		Unner left. Unner mide	dle Unnerright Closed	
Smooth zoom	Upper left, Upper middle, Upper right, Closed Available			
Image enhancement	Available			
Scene modes	Enhanced, Highlight and Natural			
Image capturing	Available			
Video recording	Available			
WIFI	Transmission of real-time video via WIFI for remote control in the 2.4G frequency band and within 15 meters			
Color palettes	Black Hot, White Hot, Adjustable Red Hot, Iron Red, Blue Hot, Green Hot			
Hot spot tracking	Available			
Compensation modes	Automatic, shutter and scene compensation			
Rough ranging	Available			
Laser	Laser indicator (up to 200m) and rangefinder (up to 600 m) when available			
Other	GPS, Compass, Gyroscope, Bluetooth			
System				
Language settings	Chinese / English / Russian / German / French			
Start up	2 \$			
Memory capacity	16 GB			
Environmental				
Operating temperature range	-30 °C to 50 °C			
Storage temperature range	-40 °C to 60 °C			
Humidity	10 % to 95 % non-condensing			
Shock	30 G at 11 ms half sine pulse (as per IEC60068-2-27)			
Vibration	10 Hz - 150 Hz - 10 Hz 0.15 mm (as per IEC60068-2-6)			
Drop	1 m			
Encapsulation	IP66			
Certification		IP66, FCC, CE, Ro	oHS, EAC, un38.3	
Physical				
Weight	≤860 g	≤880 g	≤860 g	≤880 g
Cize (I v W v LI)	162 × 146 × 70 mm			
Size (L × W × H)	Power adapter (in compliance with FCC, CE, EAC, and ROHS), Type C cable, Micro HDMI cable, lens cap, shoulder strap, 2 detachable eye masks, carry bag, 2 replaceable 18650 batteries (UN38.3), quick start guide			
Standard				

Specifications

