

# Normal 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

- 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

## Application

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

# Specifications

Model	TN430		TN450		TN630		TN650
Infrared Detector				) / O			
Detector type Detector resolution and pitch	400	0 × 300, 17 µ	ım	VOx	64	10 × 480, 12	um
Spectral range	8 to 14 μm						
NETD			≪3	0mk @ F1 2	5°C		
Lens							
-ocal length	35 mm; F1.2		50 mm; F1.2	N4 1	35 mm; F1		50 mm; F1.2
Focus Field of view	11.1° × 8.33°		7.78° × 5.84°	Manual	12.52° × 9.41°		8.78° × 6.59°
Frame Rate	11.1 ^ 0.55		7.70 ^ 5.04		12.52 ^ 7.41		0.70 ^ 0.37
Output frame frequency				50 Hz			
Zoom							
Optical zoom	2.3x		3.2x		2.0x		2.8x
Digital zoom		1 – 4x	1.1 19	1 2211		1 – 8x	
Visual effect Power			it's like viewing	at a 22" so	reen at 1 meter		
Battery type	2 replaceable 18650 batteries						
Battery life	≥ 5.5 hours						
nterface							
JSB		Type C (USE	3 2.0 standard), s			data access	5
Video interface	micro HDMI						
External expansion  Mechanical interface	External Display and Bluetooth remote control  UNC ¼"-20 (Tripod mounting, L-bracket is required), Picatinny						
Display		OINC /4	20 (Tripod friodri	urig, L brac	Ret is required), F	icutii ii y	
Display type	0.39" OLED × 2						
Resolution	1024 × 768						
Eyepiece	Monocular, exit pupil distance≥10 mm, diopter adjustment: -4 to +2						
Eyepiece zoom Video output	13.8x Digital video						
Button	Digital video						
Button functions		Po	wer / Up / Menu /	Down / Pho	nto / Video / Rana	ina	
unctions		10	vver / op / ivieria /	Bowiii	rto y viaco y rtang	1119	
Smooth zoom	Available						
Screen brightness adjustment	10 levels						
Detector brightness adjustment				10 levels			
Detector contrast adjustment	10 levels						
mage enhancement	Available						
Scene modes	Enhanced, Highlight and Natural						
mage capturing	Available Available						
Video recording 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						
Working indicator	On/Off						
Compensation modes Rough ranging	Automatic, shutter and scene compensation  Available						
Automatic shutdown	Closed, 15, 30 or 60 mins						
Automatic sleep	Closed, 5, 10, or 15 mins						
_anguage settings	Chinese / English / Russian / German / French						
System				A			
Fime setting Watermark settings	Available Closed, setting of date or date and location						
watermark settings	Upper left, Upper middle, Upper right, Closed						
Restore to default	Available						
Start up	2 s						
Memory capacity				16 GB			
Environmental				70 °C +~ FC	200		
Operating temperature range Storage temperature range	-30 °C to 50 °C -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)						
/ibration	10 Hz - 150 Hz - 10 Hz 0.15 mm (as per IEC60068-2-6)						
Orop Engangulation	1 m						
Encapsulation Certification			IPAA FCC	IP66 CE, RoHS, E	AC un38 3		
Physical			1500, 500,	OL, INDI 13, E	7.0, uno.3		
Weight	≤860 g		≤880 g		≤860 g		≤880 g
Size (L × W × H)			162	× 146 × 70	mm		<u> </u>
Standard	Power adapter (in cor						
	strap. 2 detach	able eye ma	asks, carry bag, 2	replaceable	e 18650 batteries	(UN58.5), 0	Luck start allide

## Specifications



