Model	TH 50
Detector Specifications	
Туре	Uncooled Vox
Resolution	640×512
Pixel size, µm	12
NETD, mk	≪40
Frame Rate, Hz	50
Optical Specifications	
Objective Lens, mm	50
FOV,°	8.8×7.0
Optical Magnification, ×	3.5~14.0
Digital Zoom, ×	1.0~4.0
Eye Relief, mm	50
Detection Range, m	2361
(Target size: 1.7m×0.5m, P(n)=99%)	
Diopter	-5~+3.5
Display Specifications	
Туре	Micro OLED
Dimensions	1.03"
Resolution	2560×2560
Battery Power Supply	
Battery Type	Two built-in 18650 batteries + one replaceable 18500 battery
Operating time (22 °C), h*	10
External Power Supply	5V (Type C)
Physical Specifications	
Scope Diameter, mm	30
Max. Recoil Power, g/s <sup>2</sup>	1000
Ingress Protection Rating	IP67
Memory Capacity, GB	32
Operating Temperature, °C	-20~+50
Weight (Without the 18500 Battery), g	<940
Dimension, mm	370×85×75



#### IRay Technology Co., Ltd.

Tel: 400-998-3088 Fax: +86-535-3410604

Mail: infirayoutdoor@infiray.com Web: www.infirayoutdoor.com

Add: 11th Guiyang Street, YEDA, Yantai 264006, P.R.China





# Tube TH50

Both the aesthetics and the function of the Tube demonstrate InfiRay Outdoor's mission to combine the traditional style and feel of a day optic and the advanced technology of thermal imaging. TH50 is equipped with 12um 640x512 sensor, 50mm optics and 2560x2560 1.03" Micro-OLED display, bringing unprecedented comfort, super clarity and precision to your outdoor journey. For whom value tradition and pursue technology improvement, TH50 is a go- to choice.





### **Better Image Quality Better Observing Experience**

#### Traditional Day Scope Appearance

The Tube Series was designed from the ground up for optimal use on bolt action rifles and other platforms that demand flexible mounting options with increased eye relief. The traditional style housing allows for mounting with standard 30mm rings like a typical day scope.



# 2361 m Detection Range

Combining the extraordinary sensor and the powerful 50mm optics, TH50 can achieve the detection range up to 2361m.



### **12** µm 640x512 high capacity sensor

Being the top-end thermal scope of Tube Series, TH50 is equipped with the industry leading InfiRay 12 um 640x512 sensor with advanced image processing algorithm which has excellent performance in dealing with even the slightest temperature difference presenting detailed vivid imaging.



TH50 adopts particular 2560x2560 1.03" Micro-OLED display to provide finest observing experience with excellent optical parameter of 3.5x optical magnification and 8x eyepiece magnification, no need to stare into the screen like you used to, therefore the visual fatigue caused by the long-time observing can be prevented.



## More Accurate Zeroing

TH50 is able to reach 1.2cm per unit at 100m when zeroing. You can adjust the coordinate through 1.2cm per unit at 100m. Each scale unit is smaller. Therefore, the zeroing can be more accurate.



### smooth magnification adjustment

1500 m



TH50 is able to magnify the imaging smoothly without flicker and stutter bringing users comfort when observing.



#### **Ultraclear Mode**

When Ultra-clear mode is on, bad weather condition effect is off. With Untra-clear mode, TH50 can still provide a clear and delicate imaging even in bad weather conditions such as heavy fog and rain. Bad weather can't stop you from your great adventure.



ultraclear



ultraclear off

#### **Shutterless Function**

1000 m



500 m

The Shutterless core module is adopted to nullify the shutter calibration, simplify the operation, and lower the energy consumption, making the imaging quieter and linear.



TH50 comes with 32GB of memory for storing 57,000 images or 48 hours of video. Captured videos and images can be easily transferred to your smartphone at lightning speed via app.



2000 m

2361m 2500m