



# GUIDE

## 20mK, Indulge in A Visual Feast

**TJ Series**

Handheld Thermal  
Imaging Monocular

### Introduction

Embark on nighttime explorations with the TJ Series, a top pick for hunters. Equipped with exceptional thermal imaging technology, this device features a high-sensitivity infrared detector that enables clear night vision. The Full-HD display enhances these benefits, while two-hand operation, video recording, and a 12-hour battery life make it the perfect companion for nighttime escapades.

### Features

- 12 $\mu$ m advanced thermal detector, NETD down to 20mK
- Full-HD 1920 $\times$ 1080 AMOLED display
- Unique button and battery design enables blind operation in the dark
- Adaptable for left-and right-handed use
- Video recording including sound
- IP67, 12 hours of operation

### Applications

- Night Hunting
- Law Enforcement
- Search & Rescue
- Personal Security



## Specifications



Product model	TJ420	TJ430	TJ630	TJ650
<b>Sensor</b>				
Type	Uncooled VOx Infrared Detector, 8 to 14μm			
Resolution	400×300@12μm		640×512@12μm	
NETD	25mK		20mK	
Frame rate	50Hz			
<b>Lens</b>				
Objective lens	25mm, F1.0	35mm, F1.0		50mm, F1.0
Field of view	11.0°×8.2°	7.9°×5.9°	12.5°×9.4°	8.8°×6.6°
FOV m@100m	19×14	14×10	22×16	15×12
Magnification	3.04x~12.16x	4.25x~17.0x	2.66x~21.28x	3.79x~30.32x
Detection range	1300m/1400yd	1800m/1950yd		2600m/2800yd
<b>Display</b>				
Display type	0.39" AMOLED 1920×1080			
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia			
Eyepiece	Exit pupil distance 16mm; Diopter: -6 to +6; Zoom: 18x			
<b>Hardware</b>				
WIFI	2.4G, 5G			
Interface	USB Type-C (Power supply/USB2.0)			
Others	Microphone, Compass, Gyroscope, Bluetooth			
<b>System</b>				
Recording function	Photo/Video (Audio recording included)			
Memory capacity	32GB		64GB	
<b>Power</b>				
Battery type	2 replaceable 18650 batteries			
Operating time	12 hours		10 hours	
<b>Environmental</b>				
Operating temp.	-20°C to 50°C / -4°F to +122°F			
Encapsulation	IP67			
<b>Physical</b>				
Weight(g/oz)	479/16.90	504/17.78	502/17.71	546/19.26
Size(mm/in)	234×66×66/9.21×2.60×2.60	243×66×66/9.57×2.60×2.60	234×66×66/9.21×2.60×2.60	243×66×66/9.57×2.60×2.60
Standard	A device, Wrist strap, Battery charger, 18650 battery×2, 5V2A adapter (US, Britain, Australia and Europe), USB Type-C cable, Quick use guide, Warranty card			
Optional	Bluetooth remote control, 18650 battery			

\* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors. All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.