Guide

APEX VISION

TJ LRF Series

Handheld Thermal Imaging Monocular

Laser Sharp at 1000m

outdoor

Introduction

Embark on nighttime explorations with the TJ LRF 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, laser ranging, video recording, and a 10-hour battery life make it the perfect companion for nighttime escapades.

Features

- Next-gen infrared imaging system APEXVISION for ultra-clarity
- 12μm advanced thermal detector, NETD down to 15mK
- Full-HD 1920×1080 AMOLED display
- Laser Range Finder up to 1000m
- Unique button and battery design enables blind operation in the dark
- Adaptable for left-and right-handed use
- Video recording including sound
- IP67, 10 hours of operation

Applications

- Night Hunting
- Wild Adventure
- Search & Rescue

Specifications

Product model	TJ650LS
Sensor	
Core technology	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + Platform Nexus 1.0 + Algorithm Hyper-Light 2.0
Type	Uncooled VOx Infrared Detector, 8 to 14μm
Resolution	640×512@12μm
NETD	15mK
Frame rate	50Hz
Lens	
Objective lens	50mm, F0.9
Field of view	8.8°×6.6°
FOV m@100m	15×12
Magnification	2.9x~23.2x
Detection range	2600m/2800yd
Focus	Manual
Display	
Display type	0.39" AMOLED 1920×1080
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia
Eyepiece	Eye relief: 20mm; Diopter: -6 to +6; Zoom: 13.8x
Hardware	
Laser rangefinder	1000m/1090yd
Wi-Fi	2.4G, 5G
Interface	USB-C (Power supply/USB2.0)
Others	Microphone, Compass, Gyroscope, Bluetooth
System	
Recording function	Photo/Video (Audio recording included)
Memory capacity	64 GB
Power	
Battery type	2 Replaceable 18650 Batteries
Operating time	10 hours
Environmental	
Operating temp.	-20°C to 50°C / -4°F to +122°F
Encapsulation	IP67
Physical	
Weight (g/oz)	629/22.19
Size (mm/in)	238×97×64/9.37×3.82×2.52
Standard	Device, Hand Strap, Neck Strap, Lint-Free Cloth, 18650 Battery ×2, Battery Charger, 5V 2A Adapter, USB-A to USB-C Cable, Quick Start 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.