TD631 LRF

Handheld Thermal Imaging Monocular
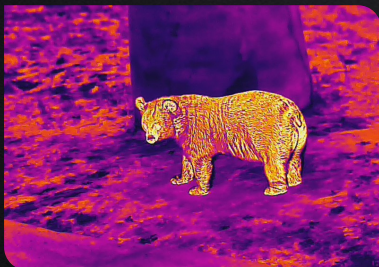
640, Thermal Wise, Price Nice

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Introduction

The TD Gen2 Series laser rangefinder version is the industry's first entry-level full-featured handheld thermal imaging monoculars. While inheriting the characteristics of the previous generation, such as being lightweight, portable, easy to operate, and durable, TD631 LRF integrates a high-precision laser rangefinder module to accurately detect targets within 600 meters. It adopts an OLED display, providing clear imaging and a comfortable viewing experience, making it the ideal equipment for outdoor night vision.

Features and Benefits

o   Boot up in 2 seconds and ready to use

o   High-brightness OLED display for a comfortable observation

o   Upgraded image algorithm for richer details

o   Built-in laser rangefinder for 600m accurate target detection

o   Super long battery life of up to 10 hours

o   IP66 encapsulation, rugged and durable

o   New UI and interaction design for easier operation

o   OTA firmware upgrade by connecting APP

Applications

o   Outdoor

o   Wild Adventure

o   Law Enforcement

o   Search & Rescue

o   Personal Security

o   Livestock Breeding

Specifications

Product model	TD631 LRF
Sensor	
Type	Uncooled VOx Infrared Detector, 8 to 14 μm
Resolution	640 × 480, 12 μm
NETD	≤40mK
Frame rate	50 Hz
Lens	
Focal length	35 mm; F1.0
Field of view	12.5° × 9.4°
Optical zoom	1.7x
Digital zoom	1x, 2x, 4x and 8x
Focus	Manual
Display	
Display type	0.23" AMOLED
Resolution	640 × 400
Eyepiece	Exit pupil distance≥12 mm; Diopter: -4 to +2; Zoom: 18x
Video output	Analog video
Range Performance	
Detection range	1400 m
Hardware	
Laser rangefinder	Max. measuring range: 600m
Functions	
Scene modes	Enhanced, Highlight and Natural
Color palettes	Black Hot, White Hot, Red Hot, Iron Hot, Blue Hot
PIP	Available
Hot spot tracking	Available
Rough ranging	Available with APP
WIFI	2.4 G
Supported Application	TargetIR
Firmware OTA	Upgrade device firmware via app connection
Others	PIP, Hot spot tracking
Power	
Battery type	Single, replaceable 18650 battery
Operating time	≥ 8 hours
Interface	
USB	USB Type-C
Mechanical interface	UNC ¼"-20 (Tripod mounting), Mechanical expansion interface
Environmental	
Storage temperature	-30 °C to 60 °C
Humidity	10 % to 95 % non-condensing
Shock	30 G at 11 ms half sine pulse (as per IEC60068-2-27)
Drop	1 m
Encapsulation	IP66
Certification	IP66, FCC, CE, RoHS, EAC, WEEE, un38.3, IEC 60825-1 Class 2
Physical	
Weight	≤399 g
Size	153×77×74 mm
Standard	A device, lens cover and lanyard, Battery charger, single 18650 battery, USB Type-C cable, Wrist strap, Carry bag, Eye mask, Quick use guide, Warranty card

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