



or

TE Series

Handheld Thermal Imaging Monocular

outdoor

Smaller Yet Sharp

Introduction

The TE Series Handheld Thermal Imaging Monocular is a pocket-sized night vision powerhouse, offering exceptional performance at an affordable price. It is equipped with a highly sensitive infrared detector, providing multiple resolutions and lens options to meet your diverse needs in various environments. A 10-minute quick charge gives you an hour of continuous use, making it the perfect companion for your outdoor explorations.

Features

- o Ultra-Lightweight: Only 200+ grams, effortlessly portable.
- o Comfortable Viewing: 0.32-inch screen for clear and smooth visuals.
- o Extended Battery: Up to 6 hours of use, 20W quick charging for worry-free power.
- o Audio-Visual Sync: Record video with synced audio.
- o Smooth Operation: One-button, one-ring design for seamless control.
- o Rugged Design: IP67-rated for all-weather durability.
- o Smart Connectivity: Control via mobile APP, OTA firmware updates.

Applications

- o Night Hunting
- o Wild Adventure
- o Search & Rescue



Specifications

Product model	TE211	TE411	TE421
Sensor			
Type	Uncooled VOx Infrared Detector, 8 to 14μm		
Resolution	256×192@12μm	400×300@12μm	
NETD	30mK	25mK	
Frame rate	50Hz		
Lens			
Objective lens	10mm, F1.0	19mm, F1.0	25mm, F1.0
Field of view	17.5°×13.1°	14.4°×10.8°	11°×8.2°
FOV m@100m	31×23	25×19	19×14
Magnification	1.2x~4.8x	1.4x~5.6x	1.9x~7.6x
Detection range	500m/550yd	1000m/1090yd	1300m/1400yd
Focus	Focus-free	Manual	
Display			
Display type	0.32" AMOLED 800×600		
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia		
Eyepiece	Eye relief: 25mm; Diopter: -5 to +5; Zoom: 14x		
Hardware			
WIFI	2.4G, 5G		
Interface	USB-C (Support charging)		
Others	Microphone, Bluetooth		
System			
Recording function	Photo/Video (Audio recording included)		
Memory capacity	16GB		
Power			
Battery type	Built-in battery		
Operating time	6 hours (Support 20W quick charging)	5 hours (Support 20W quick charging)	
Environmental			
Operating temp.	-20°C to 50°C / -4°F to +122°F		
Encapsulation	IP67		
Physical			
Weight (g/oz)	228/8.04	288/10.16	295/10.41
Size (mm/in)	47×47×132/1.85×1.85×5.20	47×47×148/1.85×1.85×5.83	47×47×155/1.85×1.85×6.10
Standard	Device, Lens cover, Eye mask, Wrist strap, USB-A to USB-C Cable, Quick use guide, Safety Information Manual, Warranty card	Device, Lens cover, Eye mask, Wrist strap, Quick charging adapter, USB-C to USB-C Cable, Quick use guide, Safety Information Manual, Warranty card	
Optional	Bluetooth remote control, Quick charging adapter, USB-C to USB-C Cable	Bluetooth remote control, USB-A to USB-C Cable	

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TE Mini

Handheld Thermal Imaging Monocular



outdoor

Touch and Enjoy

Introduction

TE Mini Series handheld thermal imaging monocular, your pocket-sized night vision companion, is equipped with a 256x192 infrared detector and a 10mm lens, providing a detection range of up to 500 meters. The integrated 1.43" AMOLED full-color touchscreen allows you to view infrared images clearly without pressing your eyes against the eyepiece, reducing eye fatigue during extended use. With just a 10-minute quick charge, it offers up to 1 hour of continuous use, making it the ideal companion by your side.

Features

- o Ultra-Lightweight: Only 205 grams, effortlessly portable.
- o Comfortable Viewing: Integrated 1.43" touchscreen, reducing eye fatigue.
- o Extended Battery: Up to 6 hours of use, 20W quick charging for worry-free power.
- o Audio-Visual Sync: Record video with synced audio.
- o Smooth Operation: One-button, one-ring design for seamless control.
- o Rugged Design: IP67-rated for all-weather durability.
- o Smart Connectivity: Control via mobile APP, OTA firmware updates.

Applications

- o Night Hunting
- o Wild Adventure
- o Search & Rescue



Specifications

Product model	TE211M
Sensor	
Type	Uncooled VOx Infrared Detector, 8 to 14μm
Resolution	256×192@12μm
NETD	30mK
Frame rate	50Hz
Lens	
Objective lens	10mm, F1.0
Field of view	13.1°×13.1°
FOV m@100m	23×23
Magnification	0.4x~1.6x
Detection range	500m/550yd
Focus	Focus-free
Display	
Display type	Touch screen, 1.43" AMOLED 466×466
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia
Hardware	
WIFI	2.4G, 5G
Interface	USB-C (Support charging)
Others	Microphone, Bluetooth
System	
Recording function	Photo/Video (Audio recording included)
Memory capacity	16GB
Power	
Battery type	Built-in battery
Operating time	6 hours (Support 20W quick charging)
Environmental	
Operating temp.	-20°C to 50°C / -4°F to +122°F
Encapsulation	IP67
Physical	
Weight (g/oz)	205/7.23
Size (mm/in)	49×49×111/1.93×1.93×4.37
Standard	Device, Lens cover, Wrist strap, USB-A to USB-C Cable, Quick use guide, Safety Information Manual, Warranty card
Optional	Bluetooth remote control, Quick charging adapter, USB-C to USB-C Cable





TD Gen3 Series

Handheld Thermal Imaging Monocular

outdoor

Fingertip focus

Introduction

The TD Gen3 Series handheld thermal imaging monocular, compact in design, yet powerful in function. The focusing roller allows for convenient one-handed operation, while the symmetrical ergonomic design enables flexible handling with either hand. With an impressive 12-hour battery life and IP67, it is well-equipped to handle various outdoor challenges. Featuring Wi-Fi connection, it enhances the efficiency and enjoyment of your exploration.

Features

- o 12μm advanced thermal detector, NETD down to 20mK
- o Ergonomic design with a focusing roller for one-handed operation.
- o 0.36" AMOLED display for upgraded crisp images.
- o 18650 battery provides up to 12-hour operation, easy installation in the dark.
- o Built-in 32GB storage for recording photos, videos, and audio files.
- o IP67 waterproof & dustproof, all-weather durability.
- o Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP.

Applications

- o Night Hunting
- o Wild Adventure
- o Search & Rescue



Specifications

Product model	TD433	TD633	TD653
Sensor			
Type	Uncooled VOx Infrared Detector, 8 to 14μm		
Resolution	400×300@12μm	640×512@12μm	
NETD	25mK	20mK	
Frame rate	50Hz		
Lens			
Objective lens	35mm, F1.0		50mm, F1.0
Field of view	7.9°×5.9°	12.5°×9.4°	8.8°×6.6°
FOV m@100m	14×10	22×17	15×12
Magnification	2.9x~11.6x	1.8x~14.4x	2.6x~20.8x
Detection range	1800m/1950yd		2600m/2800yd
Focus	Manual		
Display			
Display type	0.36" AMOLED 1280×960		
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			
WIFI	2.4G, 5G		
Interface	USB-C		
Others	Microphone, Bluetooth		
System			
Recording function	Photo/Video (Audio recording included)		
Memory capacity	16GB	32GB	
Power			
Battery type	Single, Replaceable 18650 Battery		
Operating time	12 hours	10 hours	
Environmental			
Operating temp.	-20°C to 50°C / -4°F to +122°F		
Encapsulation	IP67		
Physical			
Weight (g/oz)	355/12.52	362/12.77	461/16.26
Size (mm/in)	159×54×74/6.26×2.13×2.91		189.5×67.5×88/7.46×2.66×3.46
Standard	Device, Dust-Free Cloth, Hand Strap, Eye Mask, Battery Charger, 18650 Battery ×1, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card		
Optional	Bluetooth Remote Control, 18650 Battery		

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or

TD Gen3 LRF Series

Handheld Thermal Imaging Monocular

Seize the Hunt

outdoor

Introduction

The TD Gen3 LRF Series handheld thermal imaging monocular innovatively integrates a laser rangefinder while maintaining a compact design. The focusing roller allows for convenient one-handed operation, while the symmetrical ergonomic design enables flexible handling with either hand. With an impressive 12-hour battery life and IP67, it is well-equipped to handle various outdoor challenges. Featuring Wi-Fi connection, it enhances the efficiency and enjoyment of your exploration.

Features

- o Ergonomic design with a focusing roller for one-handed operation.
- o Integrated 1000m high-accuracy laser rangefinder.
- o 0.36" AMOLED display for upgraded crisp images.
- o 18650 battery provides up to 12-hour operation, easy installation in the dark.
- o Built-in 32GB storage for recording photos, videos, and audio files.
- o IP67 waterproof & dustproof, all-weather durability.
- o Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP.

Applications

- o Night Hunting
- o Wild Adventure
- o Search & Rescue



Specifications



Product model	TD433L	TD633L	TD653L
Sensor			
Type	Uncooled VOx Infrared Detector, 8 to 14μm		
Resolution	400×300@12μm	640×512@12μm	
NETD	25mK	20mK	
Frame rate	50Hz		
Lens			
Objective lens	35mm, F1.0		50mm, F1.0
Field of view	7.9°×5.9°	12.5°×9.4°	8.8°×6.6°
FOV m@100m	14×10	22×17	15×12
Magnification	2.9x~11.6x	1.8x~14.4x	2.6x~20.8x
Detection range	1800m/1950yd		2600m/2800yd
Focus	Manual		
Display			
Display type	0.36" AMOLED 1280×960		
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		
WIFI	2.4G, 5G		
Interface	USB-C		
Others	Microphone, Bluetooth		
System			
Recording function	Photo/Video (Audio recording included)		
Memory capacity	16GB	32GB	
Power			
Battery type	Single, Replaceable 18650 Battery		
Operating time	12 hours	10 hours	
Environmental			
Operating temp.	-20°C to 50°C / -4°F to +122°F		
Encapsulation	IP67		
Physical			
Weight (g/oz)	370/13.05	376/13.26	472/16.65
Size (mm/in)	159×54×74/6.26×2.13×2.91		189.5×67.5×88/7.46×2.66×3.46
Standard	Device, Dust-Free Cloth, Hand Strap, Eye Mask, Battery Charger, 18650 Battery ×1, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card		
Optional	Bluetooth Remote Control, 18650 Battery		

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TB 2.0 Series

Thermal Imaging Attachment

outdoor

Precision in Silence, Clarity without lag

Features

- o G-Zero Shutterless*: True zero-shutter calibration for seamless, uninterrupted visuals
- o Top-Tier Clarity: Powered by Hyper-light algorithm and high-sensitivity detectors
- o Standard 18650: Replaceable, rechargeable battery with low-power design for extended runtime
- o Ultra-Precise: 1.22cm@100m per-click adjustment, compatible with 15x daylight optics
- o LRF in Lens: Integrated laser rangefinder in the lens elevates ranging accuracy

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



*Note: The shutter module has been retained to ensure high image quality during startup and under significant temperature variations.

Specifications



Product model	TB650 2.0	TB650P 2.0
Sensor		
Type	Uncooled VOx Infrared Detector, 8 to 14μm	
Resolution	640×512@12μm	
NETD	18mK	
Frame rate	50Hz	
Lens		
Objective lens	50mm, F1.0	50mm, F0.9
Field of view	8.8°×6.6°	
FOV m@100m	15×11	
Magnification	1x	
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; Zoom: 6.7x	
Hardware		
Laser Rangefinder	/	1500m/1630yd
WIFI	2.4G, 5G	
Interface	USB-C (Power supply/USB2.0)	
Others	Microphone, Bluetooth	
System		
Recording function	Photo/Video (Audio recording included)	
Memory capacity	64GB	
Power		
Battery type	Single, Replaceable 18650 Battery	
Operating time	5 hours	
Environmental		
Operating temp.	-20°C to 50°C / -4°F to +122°F	
Shock	6000J	
Encapsulation	IP68	
Physical		
Weight (g/oz)	480/16.93	490/17.28
Size (mm/in)	144×86×79/5.67×3.39×3.11	
Standard	Device, 18650 Battery ×2, Battery Charger, USB-A to USB-C Cable, Quick Start Guide, Warranty Card	
Optional	Bluetooth Remote Control, Adapter Ring, 18650 Battery	

Cover ring adapter	
A	Weighs 70g, compatible with 38/40/42/44/46mm
B	Weighs 80g, compatible with 48/50/52/54mm
C	Weighs 90g, compatible with 56/58/60/62/64mm

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TU SE 3.0 Series

Thermal Imaging Scope

outdoor

LPVO, Small but Mighty

Features

- o **Ultimate Clarity:** High-sensitivity infrared detector × Hyper-light intelligent image enhancement algorithm.
- o **Shutterless Design:** Innovative 3.0 shutterless design ensures smooth, uninterrupted visuals.
- o **Seamless Control:** Centrally positioned focus wheel & zoom lever, ergonomically designed for effortless operation.
- o **Ultra-Lightweight:** Only 575g, effortlessly portable.
- o **Rugged Design:** IP68-rated, shock resistance up to 6000J.
- o **Smart Recording:** Auto-saves video/photo per shot, capturing shooting moments.
- o **Smart Connectivity:** Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP.

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



Specifications

Product model	TU425SE 3.0
Sensor	
Type	Uncooled VOx Infrared Detector, 8 to 14μm
Resolution	400×300@12μm
NETD	20mK
Frame rate	50 Hz
Lens	
Objective lens	25mm, F1.0
Field of view	10.3°×6.2°
FOV m@100m	18×11
Magnification	3.1x~12.4x
Detection range	1300m/1400yd
Focus	Manual
Display	
Display type	0.49" AMOLED 1920×1080
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia
Eyepiece	Eye relief: 48mm; Diopter -5 to +5; Zoom: 14x
Hardware	
WIFI	2.4G, 5G
Interface	USB-C (Charge/USB2.0)
Tube diameter	Standard 30 mm
Others	Microphone, Bluetooth
System	
Recording function	Photo/Video (Audio recording included)
Memory capacity	32GB
Power	
Battery type	18500 ×1 Battery (Built-in) and 18650 ×1 Battery (External)
Operating time	12 hours
Environmental	
Operating temp.	-20°C to 50°C / -4°F to +122°F
Shock	6000J
Encapsulation	IP68
Physical	
Weight (g/oz)	575/20.28
Size (mm/in)	311×89×76/12.24×3.50×2.99
Standard	Device, Lens Cover, Eye Mask, Quick-Release Scope Mount, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth Remote Control, Laser Rangefinder, 18650 Battery

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TU Cute 3.0 Series

Thermal Imaging Scope

outdoor

Big Vision, Smart Touch

Features

- o **Ultimate Clarity:** High-sensitivity infrared detector × Hyper-light intelligent image enhancement algorithm.
- o **Comfortable Viewing:** Integrated 1.43" touchscreen to reduce eye fatigue.
- o **Shutterless Design:** Innovative 3.0 shutterless design ensures smooth, uninterrupted visuals.
- o **Seamless Control:** Centrally positioned focus wheel & zoom lever, ergonomically designed for effortless operation.
- o **Ultra-Lightweight:** Only 438g, effortlessly portable.
- o **Rugged Design:** IP68-rated, shock resistance up to 6000J.
- o **Smart Connectivity:** Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP.

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



Specifications

Product model	TU425C 3.0
Sensor	
Type	Uncooled VOx Infrared Detector, 8 to 14μm
Resolution	400×300@12μm
NETD	20mK
Frame rate	50 Hz
Lens	
Objective lens	25mm, F1.0
Field of view	8.2°×8.2°
FOV m@100m	14×14
Magnification	0.7x~2.8x
Detection range	1300m/1400yd
Focus	Manual
Display	
Display type	1.43" AMOLED 466×466
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia
Hardware	
WIFI	2.4G, 5G
Interface	USB-C (Charge/USB2.0)
Tube diameter	Standard 30 mm
Others	Microphone, Bluetooth
System	
Recording function	Photo/Video (Audio recording included)
Memory capacity	32GB
Power	
Battery type	18500 ×1 Battery (Built-in) and 18650 ×1 Battery (External)
Operating time	12 hours
Environmental	
Operating temp.	-20°C to 50°C / -4°F to +122°F
Shock	6000J
Encapsulation	IP68
Physical	
Weight (g/oz)	438/15.45
Size (mm/in)	245×89×70/9.65×3.50×2.76
Standard	Device, Lens Cover, Quick-Release Scope Mount, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth Remote Control, Laser Rangefinder, 18650 Battery

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or



TU 3.0 Series

Thermal Imaging Scope

outdoor

Travel Light, Perform Strong

Features

- o Highly Sensitive: 12µm thermal detector, NETD reaches 18mK
- o Exceptional Imaging: Hyper-light intelligent image enhancement algorithm delivers an ultra-detailed infrared view.
- o Shutterless Design: Innovative 3.0 shutterless design ensures smooth, uninterrupted visuals.
- o Seamless Control: Centrally positioned focus wheel & zoom lever, ergonomically designed for effortless operation.
- o Rugged Design: IP68-rated, shock resistance up to 6000J.
- o WiFi Upgrade: Supports 2.4G/5G dual-band, enabling more efficient data transmission.
- o Powerful APP: Connect mobile APP for OTA firmware upgrade and ballistic calculation.

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



Specifications

Product model	TU435 3.0	TU650 3.0
Sensor		
Type	Uncooled VOx Infrared Detector, 8 to 14 μ m	
Resolution	400×300@12 μ m	640×512@12 μ m
NETD	20mK	18mK
Frame rate	50 Hz	
Lens		
Objective lens	35mm F1.0	50mm, F1.0
Field of view	7.4°×4.4°	8.2°×5.0°
FOV m@100m	13×8	14×9
Magnification	4.4x-17.6x	3.9x-31.2x
Detection range	1800m/1950yd	2600m/2800yd
Focus	Manual	
Display		
Display type	0.49" AMOLED 1920×1080	
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia	
Eyepiece	Eye relief: 48mm; Diopter -5 to +5; Zoom: 14x	
Hardware		
WIFI	2.4G, 5G	
Interface	USB-C (Charge/USB2.0)	
Tube diameter	Standard 30 mm	
Others	Microphone, Bluetooth	
System		
Recording function	Photo/Video (Audio recording included)	
Memory capacity	128GB	
Power		
Battery type	18500 ×1 Battery (Built-in) and 18650 ×1 Battery (External)	
Operating time	12 hours	
Environmental		
Operating temp.	-20°C to 50°C / -4°F to +122°F	
Shock	6000J	
Encapsulation	IP68	
Physical		
Weight (g/oz)	738/26.03	776/27.37
Size (mm/in)	374×89×76/14.72 ×3.50× 2.99	377×89×76/14.84 ×3.50× 2.99
Standard	Device, Lens Cover, Eye Mask, Quick-Release Scope Mount, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card	
Optional	Bluetooth Remote Control, Laser Rangefinder, 18650 Battery	

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TU LRF 3.0 Series

Thermal Imaging Scope

outdoor

Excellence through Clarity

Features

- o Highly Sensitive: 12 μ m thermal detector, NETD reaches 18mK
- o Exceptional Imaging: Hyper-light intelligent image enhancement algorithm delivers an ultra-detailed infrared view.
- o Shutterless Design: Innovative 3.0 shutterless design ensures smooth, uninterrupted visuals.
- o Seamless Control: Centrally positioned focus wheel & zoom lever, ergonomically designed for effortless operation.
- o Laser Range: Pinpoint target locations with accuracy, up to 1500m.
- o Rugged Design: IP68-rated, shock resistance up to 6000J.
- o Powerful APP: Connect mobile APP for OTA firmware upgrade and ballistic calculation.

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



Specifications

Product model	TU435L 3.0	TU650L 3.0
Sensor		
Type	Uncooled VOx Infrared Detector, 8 to 14μm	
Resolution	400×300@12μm	640×512@12μm
NETD	20mK	18mK
Frame rate	50 Hz	
Lens		
Objective lens	35mm, F1.0	50mm, F1.0
Field of view	7.4°×4.4°	8.2°×5.0°
FOV m@100m	13×8	14×9
Magnification	4.4x-17.6x	3.9x-31.2x
Detection range	1800m/1950yd	2600m/2800yd
Focus	Manual	
Display		
Display type	0.49" AMOLED 1920×1080	
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia	
Eyepiece	Eye relief: 48mm; Diopter -5 to +5; Zoom: 14x	
Hardware		
Laser Rangefinder	1500m/1630yd	
WIFI	2.4G, 5G	
Interface	USB-C (Charge/USB2.0)	
Tube diameter	Standard 30 mm	
Others	Microphone, Bluetooth	
System		
Recording function	Photo/Video (Audio recording included)	
Memory capacity	128GB	
Power		
Battery type	18500 ×1 Battery (Built-in) and 18650 ×1 Battery (External)	
Operating time	12 hours	
Environmental		
Operating temp.	-20°C to 50°C / -4°F to +122°F	
Shock	6000J	
Encapsulation	IP68	
Physical		
Weight (g/oz)	780/27.51	815/28.75
Size (mm/in)	374×89×82/14.72×3.50×3.23	377×89×82/14.84×3.50×3.23
Standard	Device, Lens Cover, Eye Mask, Quick-Release Scope Mount, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card	
Optional	Bluetooth Remote Control, 18650 Battery	

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TU Pro 3.0 Series

Thermal Imaging Scope

outdoor

Engineered for Compact Precision

Features

- o Highly Sensitive: 12 μ m thermal detector, NETD reaches 18mK
- o Exceptional Imaging: Hyper-light image enhancement algorithm delivers an ultra-detailed infrared view.
- o Comfortable Viewing: Enlarged AMOLED display for supreme visuals.
- o Shutterless Design: Innovative 3.0 shutterless design ensures smooth, uninterrupted visuals.
- o Seamless Control: Centrally positioned focus wheel & zoom lever, ergonomically designed for effortless operation.
- o Laser Range: Built-in LRF lens design delivers precise targeting up to 1500m.
- o Rugged Design: IP68-rated, recoil resistance up to 6000J.
- o Long Battery Life: Operating time of 14 hours with standard replaceable 18650 batteries, supports hot swapping.

Applications

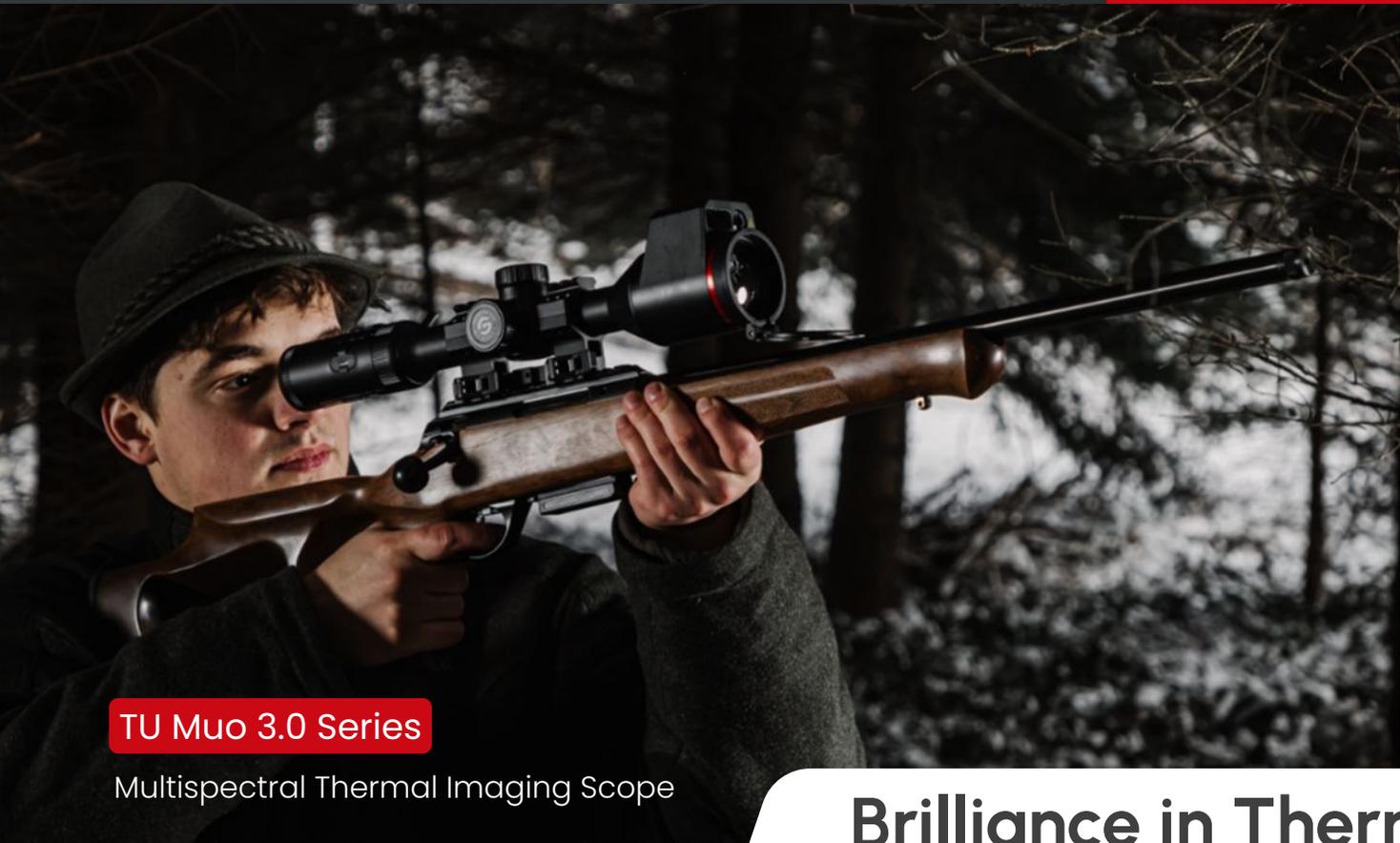
- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



Specifications

Product model	TU435P 3.0	TU635P 3.0	TU650P 3.0
Sensor			
Type	Uncooled VOx Infrared Detector, 8 to 14 μ m		
Resolution	400×300@12 μ m	640×512@12 μ m	
NETD	18mK		
Frame rate	50 Hz		
Lens			
Objective lens	35mm, F1.0	35mm, F0.9	50mm, F0.9
Field of view	7.4°×4.4°	8.8°×7.0°	
FOV m@100m	13×8	15×12	
Magnification	4.4x~17.6x	2.6x~20.8x	3.7x~29.6x
Detection range	1800m/1950yd	2600m/2800yd	
Focus	Manual		
Display			
Display type	0.49" AMOLED 1920×1080	1.03" AMOLED 2560×2560	
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia		
Eyepiece	Eye relief: 48mm; Diopter -5 to +5; Zoom: 14x	Eye relief: 60mm; Diopter -5 to +5; Zoom: 7.8x	
Hardware			
Laser Rangefinder	1000m/1090yd		1500m/1630yd
WIFI	2.4G, 5G		
Interface	USB-C (Charge/USB2.0)		
Tube diameter	Standard 30 mm		
Others	Microphone, Bluetooth		
System			
Recording function	Photo/Video (Audio recording included)		
Memory capacity	64GB	128GB	256GB
Power			
Battery type	18650 ×1 Battery (Built-in) and 18650 ×1 Battery (External)	18650 ×2 Battery (Built-in) and 18650 ×1 Battery (External)	
Operating time	12 hours	14 hours	
Environmental			
Operating temp.	-20°C to 50°C / -4°F to +122°F		
Shock	6000J		
Encapsulation	IP68		
Physical			
Weight (g/oz)	730/25.75	850/30.08	923/32.56
Size (mm/in)	358×89×80/14.09×3.50×3.15	420×89×80/16.54×3.50×3.15	451×90×79/17.75×3.54×3.11
Standard	Device, Lens Cover, Eye Mask, Quick-Release Scope Mount, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card		
Optional	Bluetooth Remote Control, 18650 Battery		

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or

TU Muo 3.0 Series

Multispectral Thermal Imaging Scope

outdoor

Brilliance in Thermal & Optical

Features

- o Dual Sights: Integrated thermal and night vision for all-day, all-weather targeting.
- o Ultra-Clear Sensitivity: 12 μ m detector + 18mK NETD with Hyper-light enhancement algorithm for exceptional infrared imaging.
- o Comfortable Viewing: QHD 2560 \times 2560 AMOLED display for clear, smooth visuals.
- o Shutterless Design: Innovative 3.0 shutterless design ensures smooth, uninterrupted visuals.
- o Seamless Control: Centrally positioned focus wheel & zoom lever, ergonomically designed for effortless operation.
- o Laser Range: Pinpoint target locations with accuracy, up to 1500m.
- o Rugged Design: IP68-rated, shock resistance up to 6000J.

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



Specifications

Product model	TU650M 3.0	TU1250M 3.0
Sensor		
Type	Thermal: Uncooled VOx Infrared Detector, 8 to 14 μ m; Digital: CMOS	
Resolution	Thermal: 640 \times 512@12 μ m (NETD 18mK); Digital: 1920 \times 1080@2.9 μ m	Thermal: 1280 \times 1024@12 μ m (NETD 18mK); Digital: 1920 \times 1080@2.9 μ m
Frame rate	50 Hz	
Lens		
Objective lens	Thermal: 50mm, F1.0; Digital: 35mm, F4.0	
Field of view	Thermal: 8.8 $^{\circ}$ \times 7.0 $^{\circ}$; Digital: 6.4 $^{\circ}$ \times 5.1 $^{\circ}$	Thermal: 17.5 $^{\circ}$ \times 14.0 $^{\circ}$; Digital: 6.4 $^{\circ}$ \times 5.1 $^{\circ}$
FOV m@100m	Thermal: 15 \times 12; Digital: 11 \times 9	Thermal: 31 \times 25; Digital: 11 \times 9
Magnification	Thermal: 3.7x~29.6x; Digital: 3.7x~29.6x	Thermal: 1.9x~30.4x; Digital: 3.7x~59.2x
Detection range	Thermal: 2600m/2800yd; Digital: 500m/550yd	
Focus	Manual	
Display		
Display type	1.03" AMOLED 2560 \times 2560	
Color palettes	IR: White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia; Visible: Day, Night, Low-light	
Eyepiece	Eye relief: 60mm; Diopter -5 to +5; Zoom: 7.8x	
Hardware		
Laser Rangefinder	1500m/1630yd	
WiFi	2.4G, 5G	
Interface	USB-C (Charge/USB2.0)	
Tube diameter	Standard 30 mm	
Others	Microphone, Bluetooth	
System		
Recording function	Photo/Video (Audio recording included)	
Memory capacity	256GB	
Power		
Battery type	18650 \times 2 Battery (Built-in) and 18650 \times 1 Battery (External)	
Operating time	14 hours	12 hours
Environmental		
Operating temp.	-20 $^{\circ}$ C to 50 $^{\circ}$ C / -4 $^{\circ}$ F to +122 $^{\circ}$ F	
Shock	6000J	
Encapsulation	IP68	
Physical		
Weight (g/oz)	1013/35.73	1090/38.45
Size (mm/in)	457 \times 90 \times 84/17.99 \times 3.54 \times 3.30	
Standard	Device, Lens Cover, Eye Mask, Quick-Release Scope Mount, Carry Bag, IR Illuminator, IR Illuminator Bracket, 18650 Battery \times 2, Battery Charger, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card	
Optional	Bluetooth Remote Control, 18650 Battery	

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TN 2.0

Handheld Thermal Imaging Binoculars

outdoor

One Finger Focus,
Ready for Action

Features

- o **Lightweight Design:** Classic slim binocular structure with stepless adjustable 58–72mm interpupillary distance.
- o **Ultra-Clear Detection:** 12 μ m thermal detector + 18mK NETD with Hyper-light enhancement algorithm.
- o **Intuitive Control:** Precision focus wheel for effortless one-handed use; customizable buttons for a personalized user experience.
- o **Laser Range:** Pinpoint target locations with accuracy, up to 1500m.
- o **Smart Connectivity:** Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP.
- o **Rugged & Efficient:** IP67-rated with auto screen-off for both energy saving and discreet use.

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



Specifications

Product model	TN450L 2.0	TN650L 2.0
Sensor		
Type	Uncooled VOx Infrared Detector, 8 to 14μm	
Resolution	400×300@12μm	640×512@12μm
NETD	20mK	18mK
Frame rate	50Hz	
Lens		
Objective lens	50mm, F1.0	
Field of view	5.2°×3.1°	8.2°×5.0°
FOV m@100m	9×5	14×9
Magnification	6.2x-24.8x	3.9x-31.2x
Detection range	2600m/2800yd	
Focus	Manual	
Display		
Display type	0.49" 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; Interpupillary distance adjustment: 60-70mm; Zoom: 13.8x	
Hardware		
Laser rangefinder	1500m/1630yd	
WIFI	2.4G, 5G	
Interface	USB-C (Support charging)	
Others	Microphone, Compass, Gyroscope, Bluetooth	
System		
Recording function	Photo/Video (Audio recording included)	
Memory capacity	64GB	128GB
Power		
Battery type	Customized Battery (Built-in) and 18650 ×1 Battery (External)	
Operating time	8 hours	7 hours
Environmental		
Operating temp.	-20°C to 50°C / -4°F to +122°F	
Encapsulation	IP67	
Physical		
Weight (g/oz)	722/25.47	712/25.11
Size (mm/in)	208×137×68.5/8.2×5.39×2.69	
Standard	Device, Eye Mask, Neck Strap, Carry Bag, 18650 Battery ×1, Battery Charger, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card	
Optional	Bluetooth Remote Control, 18650 Battery	

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TN Muo 2.0

Multispectral Fusion Thermal Binoculars

Fusion Vision, Zero Blind Spot

outdoor

Features

- o Dual-Sensor System: 640×512 high-sensitivity thermal detector + 3840×2160 low-light CMOS sensor.
- o Ultra-Clear Detection: 12μm thermal detector + 18mK NETD with Hyper-light enhancement algorithm.
- o Lightweight Design: Classic slim binocular structure with stepless adjustable 58–72mm interpupillary distance.
- o Intuitive Control: Precision focus wheel for effortless one-handed use; customizable buttons for a personalized user experience.
- o All-in-One Functionality: Integrated rangefinder, GPS, and digital compass to support informed decision-making.
- o Rugged & Efficient: IP67-rated with auto screen-off for both energy saving and discreet use.

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



Specifications

Product model	TN650M 2.0
Sensor	
Type	Thermal: Uncooled VOx Infrared Detector, 8 to 14μm; Digital: CMOS
Resolution	Thermal: 640×512@12μm (NETD 18mk); Digital: 3840×2160@2μm
Frame rate	50Hz
Lens	
Objective lens	Thermal: 50mm, F1.0; Digital: 33mm, F1.4
Field of view	Thermal: 8.2°×5.0°; Digital: 12.5°×7.5°
FOV m@100m	Thermal: 14×9; Digital: 22×13
Magnification	Thermal: 3.9x~31.2x; Digital: 2.6x~20.8x
Detection range	Thermal: 2600m/2800yd; Digital: 950m/1000yd
Focus	Manual
Display	
Display type	0.49" AMOLED 1920×1080
Color palettes	IR: White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia; Visible: Day, Night, Low-light
Image modes	IR, Visible, Fusion 1, Fusion 2, Fusion 3
Eyepiece	Eye relief: 20mm; Diopter: -6 to +6; Interpupillary distance adjustment: 58-72mm; Zoom: 13.8x
Hardware	
Laser rangefinder	1500m/1630yd
WIFI	2.4G, 5G
Interface	USB-C (Support charging)
Others	Microphone, Compass, Gyroscope, Bluetooth
System	
Recording function	Photo/Video (Audio recording included)
Memory capacity	256GB
Power	
Battery type	Customized Battery (Built-in) and 18650 ×1 Battery (External)
Operating time	5 hours
Environmental	
Operating temp.	-20°C to 50°C / -4°F to +122°F
Encapsulation	IP67
Physical	
Weight (g/oz)	865/30.51
Size (mm/in)	226×133×64/8.90×5.24×2.52
Standard	Device, Eye Mask, Neck Strap, Carry Bag, 18650 Battery ×1, Battery Charger, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth Remote Control, 18650 Battery

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or

DN 2.0

Handheld Digital Binoculars

outdoor

4K Clarity, Smart Choice

Features

- o **Lightweight Design:** Classic slim binocular structure with stepless adjustable 58–72mm interpupillary distance.
- o **4K UHD Clarity:** 3840×2160 low-light CMOS sensor paired with a 1920×1080 AMOLED display.
- o **Intuitive Control:** Precision focus wheel for effortless one-handed use; customizable buttons for a personalized user experience.
- o **Laser Range:** Pinpoint target locations with accuracy, up to 1200m.
- o **Smart Connectivity:** Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP.
- o **Rugged & Efficient:** IP67-rated with auto screen-off for both energy saving and discreet use.

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



Specifications

Product model	DN70L 2.0
Sensor	
Type	Digital: CMOS
Resolution	3840×2160@2μm
Frame rate	50Hz
Lens	
Objective lens	Digital: 70mm, F1.8
Field of view	5.9°×3.5°
FOV m@100m	10×6
Magnification	5.4x~43.2x
Detection range	1300m/1400yd
Focus	Manual
Display	
Display type	0.49" AMOLED 1920×1080
Color palettes	Day, Night, Low-light
Eyepiece	Eye relief: 20mm; Diopter: -6 to +6; Interpupillary distance adjustment: 58-72mm; Zoom: 13.8x
Hardware	
Laser rangefinder	1200m/1300yd
WIFI	2.4G, 5G
Interface	USB-C (Support charging)
Others	Microphone, Compass, Gyroscope, Bluetooth
System	
Recording function	Photo/Video (Audio recording included)
Memory capacity	128GB
Power	
Battery type	Customized Battery (Built-in) and 18650 ×1 Battery (External)
Operating time	5 hours
Environmental	
Operating temp.	-20°C to 50°C / -4°F to +122°F
Encapsulation	IP67
Physical	
Weight (g/oz)	820/28.9
Size (mm/in)	216×133×64/8.50×5.24×2.52
Standard	Device, Eye Mask, Neck Strap, Carry Bag, 18650 Battery ×1, Battery Charger, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth Remote Control, 18650 Battery

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DN Muo 2.0

Multispectral Fusion Digital Binoculars

outdoor

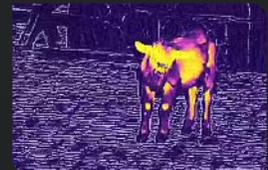
**Less Mass,
More Might**

Features

- o Day & Night Vision: Integrated thermal imaging and visible-light sensor for seamless 24-hour observation.
- o Lightweight Design: Classic slim binocular structure with stepless adjustable 58–72mm interpupillary distance.
- o Intuitive Control: Precision focus wheel for effortless one-handed use; customizable buttons for a personalized user experience.
- o Effortless Evidence Collection: Easily capture photos and record 4K videos with one click.
- o All-in-One Functionality: Integrated rangefinder, GPS, and digital compass to support informed decision-making.
- o Smart Connectivity: Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP.
- o Rugged & Efficient: IP67-rated with auto screen-off for both energy saving and discreet use.

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



Specifications

Product model	DN70M 2.0
Sensor	
Type	Thermal: Uncooled VOx Infrared Detector, 8 to 14μm; Digital: CMOS
Resolution	Thermal: 256×192@12μm (NETD 30mK); Digital: 3840×2160@2μm
Frame rate	50Hz
Lens	
Objective lens	Thermal: 25mm, F1.0; Digital: 70mm, F1.8
Field of view	Thermal: 6.6°×4.0; Digital: 5.9°×3.5°
FOV m@100m	Thermal:12×7; Digital: 10×6
Magnification	Thermal: 4.8x~19.2x; Digital: 5.4x~21.6x
Detection range	Thermal: 1300m/1400yd; Digital: 1300m/1400yd
Focus	Manual
Display	
Display type	0.49" AMOLED 1920×1080
Color palettes	IR: White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia; Visible: Day, Night, Low-light
Image modes	IR, Visible, Fusion 1, Fusion 2, Fusion 3
Eyepiece	Eye relief: 20mm; Diopter: -6 to +6; Interpupillary distance adjustment: 58-72mm; Zoom: 13.8x
Hardware	
Laser rangefinder	1500m/1630yd
WIFI	2.4G, 5G
Interface	USB-C (Support charging)
Others	Microphone, Compass, Gyroscope, Bluetooth
System	
Recording function	Photo/Video (Audio recording included)
Memory capacity	256GB
Power	
Battery type	Customized Battery (Built-in) and 18650 ×1 Battery (External)
Operating time	5 hours
Environmental	
Operating temp.	-20°C to 50°C / -4°F to +122°F
Encapsulation	IP67
Physical	
Weight (g/oz)	914/32.24
Size (mm/in)	226×133×64/8.90×5.24×2.52
Standard	Device, Eye Mask, Neck Strap, Carry Bag, 18650 Battery ×1, Battery Charger, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth Remote Control, 18650 Battery

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or

TJ Series

Handheld Thermal Imaging Monocular

20mK, Indulge in A Visual Feast

outdoor

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

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

Applications

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



Specifications



Product model	TJ420	TJ430	TJ630	TJ650
Sensor				
Type	Uncooled VOx Infrared Detector, 8 to 14μm			
Resolution	400×300@12μm		640×512@12μm	
NETD	25mK		20mK	
Frame rate	50Hz			
Lens				
Objective lens	25mm, F1.0	35mm, F1.0		50mm, F1.0
Field of view	11.0°×8.2°	7.9°×5.9°	12.5°×10.0°	8.8°×7.0°
FOV m@100m	19×14	14×10	22×17	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
Display				
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 16 mm; Diopter: -6 to +6; Zoom: 18x			
Hardware				
WIFI	2.4G, 5G			
Interface	USB Type-C (Power supply/USB2.0)			
Others	Microphone, Compass, Gyroscope, Bluetooth			
System				
Recording function	Photo/Video (Audio recording included)			
Memory capacity	32GB		64GB	
Power				
Battery type	2 replaceable 18650 batteries			
Operating time	12 hours		10 hours	
Environmental				
Operating temp.	-20°C to 50°C / -4°F to +122°F			
Encapsulation	IP67			
Physical				
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			

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or

TJ LRF Series

Handheld Thermal Imaging Monocular

Welcome to the Big Screens

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 12-hour battery life make it the perfect companion for nighttime escapades.

Features

- o 12μm advanced thermal detector, NETD down to 20mK
- o Full-HD 1920×1080 AMOLED display
- o Laser Range Finder up to 1000m
- o Unique button and battery design enables blind operation in the dark
- o Adaptable for left- and right-handed use
- o Video recording including sound
- o IP67, 12 hours of operation

Applications

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



Specifications



Product model	TJ420L	TJ430L	TJ630L	TJ650L
Sensor				
Type	Uncooled VOx Infrared Detector, 8 to 14μm			
Resolution	400×300@12μm		640×512@12μm	
NETD	25mK		20mK	
Frame rate	50Hz			
Lens				
Objective lens	25mm, F1.0	35mm, F1.0		50mm, F1.0
Field of view	11.0°×8.2°	7.9°×5.9°	12.5°×10.0°	8.8°×7.0°
FOV m@100m	19×14	14×10	22×17	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
Display				
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 16 mm; Diopter: -6 to +6; Zoom: 18x			
Hardware				
Laser rangefinder	1000m/1090yd			
WIFI	2.4G, 5G			
Interface	USB Type-C (Power supply/USB2.0)			
Others	Microphone, Compass, Gyroscope, Bluetooth			
System				
Recording function	Photo/Video (Audio recording included)			
Memory capacity	32GB		64GB	
Power				
Battery type	2 replaceable 18650 batteries			
Operating time	12 hours		10 hours	
Environmental				
Operating temp.	-20°C to 50°C / -4°F to +122°F			
Encapsulation	IP67			
Physical				
Weight (g/oz)	558/19.68	583/20.56	581/20.49	625/22.05
Size (mm/in)	234×97×66/ 9.21×3.82×2.60	243×97×66/ 9.57×3.82×2.60	234×97×66/ 9.21×3.82×2.60	243×97×66/ 9.57×3.82×2.60
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			

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TJ LRF Zoom Series

Handheld Thermal Imaging Monocular

Dual Focus.

Infinite Views

outdoor

Introduction

TJ LRF Zoom Series adapts an integrated 20mm/60mm DFOV lens, allowing you to switch the focal length accordingly, whether it is a large-scale search or a long-distance target identification. The high-sensitivity 12 μ m infrared detector and full HD display enable clear night vision. Two-handed operation, laser ranging, video recording, and up to 10 hours of battery life make it an ideal partner for your nighttime adventures.

Features

- o Thermal detector: 640 \times 512@12 μ m, NETD<20mK
- o 3x optical zoom, wide/narrow FOV switch in one step
- o Full-HD 1920 \times 1080 AMOLED display
- o Built-in laser range finder up to 1000m
- o Unique button and battery design enables blind operation in the dark
- o Adaptable for left- and right-handed use
- o Video recording including sound
- o IP67, 10 hours of operation

Applications

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



Specifications

Product model	TJ660LZ
Sensor	
Type	Uncooled VOx Infrared Detector, 8 to 14μm
Resolution	640×512@12μm
NETD	20mK
Frame rate	50Hz
Lens	
Objective lens	20mm, F0.9; 60mm, F1.1
Field of view	21.7×17.5; 7.3×5.9
FOV m@100m	38×31; 13×10
Magnification	1.5x~12.0x; 4.5x~36x
Detection range	1000m/1090yd; 3100m/3350yd
Display	
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 16 mm; Diopter: -6 to +6; Zoom: 18x
Hardware	
Laser rangefinder	1000m/1090yd
WIFI	2.4G, 5G
Interface	USB Type-C (Power supply/USB2.0)
Others	Microphone, Compass, Gyroscope, Bluetooth
System	
Recording function	Photo/Video (Audio recording included)
Memory capacity	64GB
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)	784/27.65
Size (mm/in)	259×97×66/10.20×3.82×2.60
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

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or

TJ LRF Pro Series

Handheld Thermal Imaging Monocular

Laser Sharp at 1500m

outdoor

Introduction

TJ LRF Pro Series has fully upgraded its hardware configuration and software functions, bringing it to new heights in picture clarity, observation comfort, and intelligent operation. It is equipped with a 12μm high-sensitivity infrared detector, making your targets in the dark clearly visible and lifelike. 0.5" ultra-large AMOLED display presents you with a stunning visual effect like a home theater. Built-in 1500m laser rangefinder, triggered with one button, makes your adventure more secure and smooth.

Features

- o 12μm advanced thermal detector, NETD down to 18mK
- o Stunning visual effects like a 90" home theater at 2.5m distance
- o Laser Range Finder up to 1500m
- o Unique button and battery design enables blind operation in the dark
- o Adaptable for left- and right-handed use
- o Video recording including sound

Applications

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



Specifications

Product model	TJ630LP	TJ650LP	TJ1250LP
Sensor			
Type	Uncooled VOx Infrared Detector, 8 to 14μm		
Resolution	640×512@12μm	1280×1024@12μm	
NETD	20mK	18mK	
Frame rate	50Hz		
Lens			
Objective lens	35mm, F1.0	50mm, F1.0	
Field of view	12.5°×10.0°	8.8°×7.0°	17.5°×14.0°
FOV m@100m	22×17	15×12	31×25
Magnification	3.31x-26.48x	4.73x-37.84x	2.36x-37.76x
Detection range	1800m/1950yd	2600m/2800yd	
Display			
Display type	0.5" AMOLED 1600×1200		
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia		
Eyepiece	Exit pupil distance 16 mm; Diopter: -6 to +6; Zoom: 18x		
Hardware			
Laser rangefinder	1500m/1630yd		
WIFI	2.4G, 5G		
Interface	USB Type-C (Power supply/USB2.0)		
Others	Microphone, Compass, Gyroscope, Bluetooth		
System			
Recording function	Photo/Video (Audio recording included)		
Memory capacity	64GB	256GB	
Power			
Battery type	2 replaceable 18650 batteries		
Operating time	9 hours	6 hours	
Environmental			
Operating temp.	-20°C to 50°C / -4°F to +122°F		
Encapsulation	IP67		
Physical			
Weight (g/oz)	584/20.60	618/21.80	689/24.30
Size (mm/in)	247×101×70/9.72×3.98×2.76		
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.



TB Series

Thermal Imaging Attachment

outdoor

Wind and Rain

Introduction

The TB Series perfectly balances precision and portability. The magnesium alloy housing decreases weight while increasing precision. The weights are over 20% lighter than those of other similar products. It is also more compact than our previous clip-on. Meanwhile, a Full-HD AMOLED display is capable, a wider viewing angle, and richer color. It is the ideal partner for relax hunting.

Features

- 12μm advanced thermal detector, NETD down to 20mK
- Full-HD 1920×1080 AMOLED display
- Magnesium alloy housing, compact design, lightweight but powerful
- Two standard 18650 batteries provide up to 12 hours of operation
- Double side focus knob for easy operation
- Video recording including sound
- IP68, Shock resistance up to 1000G

Applications

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



Specifications



Product model	TB420	TB430	TB630
Sensor			
Type	Uncooled VOx Infrared Detector, 8 to 14μm		
Resolution	400×300@12μm		640×512@12μm
NETD	25mK		20mK
Frame rate	50Hz		
Lens			
Objective lens	25mm, F1.0	35mm, F1.0	
Field of view	11.0°×8.2°	7.8°×5.9°	12.5°×10.0°
FOV m@100m	19×14	14×10	22×17
Magnification	1x		
Detection range	1300m/1400yd	1800m/1950yd	
Display			
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 20mm		
Hardware			
WIFI	2.4G, 5G		
Interface	USB Type-C (Power supply/USB2.0)		
Others	Microphone, Bluetooth		
System			
Recording function	Photo/Video (Audio recording included)		
Memory capacity	32GB		64GB
Power			
Battery type	2 replaceable 18650 batteries		
Operating time	12 hours		10 hours
Environmental			
Operating temp.	-20°C to 50°C / -4°F to +122°F		
Shock	1000G (as per IEC60068-2-27)		
Encapsulation	IP68		
Physical			
Weight (g/oz)	420/14.82	425/14.99	440/15.52
Size (mm/in)	128×79×79/5.04×3.11×3.11		
Standard	A device, Battery charger, 18650 battery×2, 5V2A adapter (US, Britain, Australia and Europe), USB Type-C cable, Quick use guide, Warranty card		
Optional	18650 battery, Bluetooth remote control, Cover ring adapter		

Cover ring adapter	
A	Weighs 70g, compatible with 38/40/42/44/46mm
B	Weighs 80g, compatible with 48/50/52/54mm
C	Weighs 90g, compatible with 56/58/60/62/64mm

* 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.



TB LRF Series

Thermal Imaging Attachment

outdoor

Ultra-light,

Ultra-strong

Introduction

The TB LRF Series perfectly balances precision and portability. The magnesium alloy housing decreases weight while increasing precision. The weights are over 20% lighter than those of other similar products. It is also more compact than our previous clip-on. Meanwhile, a Full-HD AMOLED display is capable, a wider viewing angle, and richer color. It is the ideal partner for relax hunting.

Features

- o Thermal detector: 640×512@12μm, NETD<20mK
- o Full-HD 1920×1080 AMOLED display
- o Magnesium alloy housing, compact design, lightweight but powerful
- o Laser Range Finder up to 1000m
- o Double side focus knob for easy operation
- o Video recording including sound
- o IP68, shock resistance up to 1000G

Applications

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



Specifications



Product model	TB630 LRF (Version A)	TB630 LRF (Version B)
Sensor		
Type	Uncooled VOx Infrared Detector, 8 to 14μm	
Resolution	640×512@12μm	
NETD	20mK	
Frame rate	50Hz	
Lens		
Objective lens	35mm, F1.0	
Field of view	12.5°×10.0°	
FOV m@100m	22×17	
Magnification	1x	
Detection range	1800m/1950yd	
Display		
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 20mm	
Hardware		
Laser rangefinder	1000m/1090yd	
WIFI	2.4G, 5G	
Interface	USB Type-C (Power supply/USB2.0)	
Others	Microphone, Bluetooth	
System		
Recording function	Photo/Video (Audio recording included)	
Memory capacity	64GB	
Power		
Battery type	Single, replaceable 18650 battery	
Operating time	6 hours	
Environmental		
Operating temp.	-20°C to 50°C / -4°F to +122°F	
Shock	1000G (as per IEC60068-2-27)	
Encapsulation	IP68	
Physical		
Weight (g/oz)	450/15.87	447/15.77
Size (mm/in)	130×86×79/5.12×3.39×3.11	130×80×79/5.12×3.15×3.11
Standard	A device, Rail, Battery charger, 18650 battery×2, 5V2A adapter (US, Britain, Australia and Europe), USB Type-C cable, Quick use guide, Warranty card	A device, Battery charger, 18650 battery×2, 5V2A adapter (US, Britain, Australia and Europe), USB Type-C cable, Quick use guide, Warranty card
Optional	18650 battery, Bluetooth remote control, Cover ring adapter	

Cover ring adapter	
A	Weighs 70g, compatible with 38/40/42/44/46mm
B	Weighs 80g, compatible with 48/50/52/54mm
C	Weighs 90g, compatible with 56/58/60/62/64mm



or

TB Pro Series

Thermal Imaging Attachment

outdoor

all in Control

Introduction

The TB Pro Series perfectly balances precision and portability. The magnesium alloy housing decreases weight while increasing precision. The weights are over 20% lighter than those of other similar products. It is also more compact than our previous clip-on. Meanwhile, a Full-HD AMOLED display is capable, a wider viewing angle, and richer color. It is the ideal partner for relax hunting.

Features

- o 12 μ m advanced thermal detector, NETD down to 18mK
- o 50mm focal length with a maximum detection range of 2600m
- o Full-HD 1920 \times 1080 AMOLED display
- o Magnesium alloy housing, compact design, lightweight but powerful
- o Double side focus knob for easy operation
- o Video recording including sound
- o IP68, shock resistance up to 1000G

Applications

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



Specifications

Product model	TB650P	TB1250P
Sensor		
Type	Uncooled VOx Infrared Detector, 8 to 14 μ m	
Resolution	640×512@12 μ m	1280×1024@12 μ m
NETD	20mK	18mK
Frame rate	50Hz	
Lens		
Objective lens	50mm, F1.0	
Field of view	8.8°×7.0°	17.5°×14.0°
FOV m@100m	15×12	31×25
Magnification	1x	
Detection range	2600m/2800yd	
Display		
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 20mm	
Hardware		
WIFI	2.4G, 5G	
Interface	USB Type-C (Power supply/USB2.0)	
Others	Microphone, Bluetooth	
System		
Recording function	Photo/Video (Audio recording included)	
Memory capacity	64GB	256GB
Power		
Battery type	2 replaceable 18650 batteries	
Operating time	9 hours	6 hours
Environmental		
Operating temp.	-20°C to 50°C / -4°F to +122°F	
Shock	1000G (as per IEC60068-2-27)	
Encapsulation	IP68	
Physical		
Weight (g/oz)	582/20.53	617/21.76
Size (mm/in)	161×89×97/6.34×3.50×3.82	
Standard	A device, Battery charger, 18650 battery×2, 5V2A adapter (US, Britain, Australia and Europe), USB Type-C cable, Quick use guide, Warranty card	
Optional	18650 battery, Bluetooth remote control, Cover ring adapter	

Cover ring adapter	
A	Weighs 70g, compatible with 38/40/42/44/46mm
B	Weighs 80g, compatible with 48/50/52/54mm
C	Weighs 90g, compatible with 56/58/60/62/64mm





or

TB LRF Pro Series

Thermal Imaging Attachment

outdoor

in Your Reach

Introduction

After an in-depth hardware upgrade and software optimization, the TB LRF Pro Series combines precision and portability. Its appearance remains light without reducing professionalism at all: built-in laser rangefinder can reach an ultra-long distance of up to 1,500 meters; two batteries empower a longer operating time; full HD AMOLED display brings a rich and detailed visual experience; it also supports intelligent functions such as image tracing, automatic recording after each shot, etc.

Features

- o 12μm advanced thermal detector, NETD down to 18mK
- o Full-HD 1920×1080 AMOLED display
- o Built-in laser rangefinder up to 1500m
- o Support image tracing, automatic recording
- o Double side focus knob for easy operation
- o Video recording including sound
- o IP68, shock resistance up to 1000G

Applications

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



Specifications

Product model	TB630LP	TB650LP	TB1250LP
Sensor			
Type	Uncooled VOx Infrared Detector, 8 to 14μm		
Resolution	640×512@12μm		1280×1024@12μm
NETD	20mK		18mK
Frame rate	50Hz		
Lens			
Objective lens	35mm, F1.0	50mm, F1.0	
Field of view	12.5°×10.0°	8.8°×7.0°	17.5°×14.0°
FOV m@100m	22×17	15×12	31×25
Magnification	1x		
Detection range	1800m/1950yd	2600m/2800yd	
Display			
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 20mm		
Hardware			
Laser rangefinder	1000m/1090yd		1500m/1630yd
WIFI	2.4G, 5G		
Interface	USB Type-C (Power supply/USB2.0)		
Others	Microphone, Bluetooth		
System			
Recording function	Photo/Video (Audio recording included)		
Memory capacity	64GB		256GB
Power			
Battery type	2 replaceable 18650 batteries		
Operating time	9 hours		6 hours
Environmental			
Operating temp.	-20°C to 50°C / -4°F to +122°F		
Shock	1000G (as per IEC60068-2-27)		
Encapsulation	IP68		
Physical			
Weight (g/oz)	561/19.79	582/20.53	617/21.76
Size (mm/in)	161×89×97/6.34×3.50×3.82		
Standard	A device, Battery charger, 18650 battery×2, 5V2A adapter (US, Britain, Australia and Europe), USB Type-C cable, Quick use guide, Warranty card		
Optional	18650 battery, Bluetooth remote control, Cover ring adapter		

Cover ring adapter	
A	Weighs 70g, compatible with 38/40/42/44/46mm
B	Weighs 80g, compatible with 48/50/52/54mm
C	Weighs 90g, compatible with 56/58/60/62/64mm



* 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.



or

TR Series

Thermal Imaging Scope

Enduring Performance,
Day and Night

outdoor

Introduction

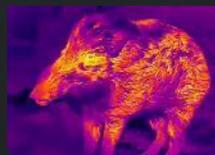
TR Series is an economical civilian infrared thermal imaging scope that adopts high sensitivity thermal detector with three different lens options of 25 mm, 35 mm, 50 mm. The TR Series offers sharp and detailed images while retaining the accuracy. TR thermal scope also features with compact size, waterproof and dustproof, high shock resistance, rugged and durable, which performs impressively in any harsh weather.

Features

- o Fast and easy replaceable 18650 battery for 8 hours of operation
- o 1024x768 resolution HD AMOLED display for image detail
- o Video recording including sound
- o Connect mobile APP for OTA firmware upgrade and ballistic calculation
- o Screen freezing for quick and easy zeroing
- o Get precise 600m laser ranging using an external range finder
- o A wide range of operating temperatures (-30°C to 50°C)
- o IP 67 dustproof and waterproof rated

Applications

- o Night Hunting
- o Search & Rescue
- o Law Enforcement
- o Personal security



Specifications

Product model	TR420	TR430	TR450	TR620	TR630	TR650
Sensor						
Type	Uncooled VOx Infrared Detector, 8 to 14μm					
Resolution	400×300@12μm			640×512@12μm		
NETD	25mK			20mK		
Frame rate	50 Hz					
Lens						
Objective lens	25mm, F1.0	35mm, F1.0	50mm, F1.0	25mm, F1.0	35mm, F1.0	50mm, F1.0
Field of view	11°×8.2°	7.8°×5.9°	5.5°×4.1°	17.5°×14.0°	12.5°×10.0°	8.8°×7.0°
FOV m@100m	19×14	14×10	10×7	31×25	22×17	15×12
Magnification	2.3x~9.2x	3.3x~13.2x	4.7x~18.8x	1.5x~12.0x	2.1x~16.8x	2.9x~23.2x
Detection range	1300m/1400yd	1800m/1950yd	2600m/2800yd	1300m/1400yd	1800m/1950yd	2600m/2800yd
Display						
Display type	0.39" AMOLED 1024×768					
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia					
Eyepiece	Exit pupil distance 48 mm; Diopter ± 4; Zoom: 14x					
Hardware						
WIFI	2.4G					
Interface	USB Type-C					
Others	Microphone, Bluetooth					
System						
Recording function	Photo/Video (Audio recording included)					
Memory capacity	32GB					
Power						
Battery type	Single, replaceable 18650 battery					
Operating time	8 hours					
Environmental						
Operating temp.	-30°C to 50°C / -22°F to +122°F					
Shock	800G (as per IEC60068-2-27)					
Encapsulation	IP67					
Physical						
Weight (g/oz)	564/19.89	565/19.93	638/22.50	578/20.39	575/20.28	682/24.06
Size (mm/in)	201×89×66/ 7.91×3.50×2.60	206×89×66/ 8.11×3.50×2.60	219×92×70/ 8.62×3.62×2.76	201×89×66/ 7.91×3.50×2.60	206×89×66/ 8.11×3.50×2.60	219×92×70/ 8.62×3.62×2.76
Standard	Device, Quick-release scope mount, Type-C cable, 5V2A adapter (US, Britain, Australia and Europe), 18650 battery, Battery charger, Lens cover, Eye mask, Quick start guide, Warranty card					
Optional	18650 battery, Dovetail guide, Bluetooth remote control, Laser rangefinder					

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TL Series

Multispectral Fusion Thermal Monocular

outdoor

Total Insight

Introduction

The TL Series is the first multispectral fusion thermal monocular of Guide Sensmart whose all-in-one design meets the needs of all-day and all-weather observation. Equipped with a 12 μ m high-end thermal sensor, 1920 \times 1080 CMOS sensor and 1920 \times 1080 AMOLED display, the TL Series offers significantly sharp and richly contrasted images with an integrated laser rangefinder with up to 600m accurate ranging. Integrated with a built-in GPS, laser rangefinder, and gyroscope, target latitude and longitude, target distance, and device angle information can be obtained for quick aiming.

Features

- o Integrated thermal and night vision for all-day and all-weather observation
- o 12 μ m HD thermal sensor and AMOLED display for reduced visual fatigue
- o Built-in laser rangefinder for 600m accurate target detection
- o Built-in GPS for accurate target positioning
- o Combined multispectral viewing modes for a more fast observation
- o Removable single 18650 battery for 5 hours of battery life
- o OTA firmware upgrade by connecting to the APP
- o IP67 encapsulation, rugged and durable



Visible



IR



Fusion
1



Fusion
2

Specifications

Product model	TL430	TL450	TL630	TL650
Sensor				
Type	Thermal: Uncooled VOx Infrared Detector, 8 to 14 μ m; Digital: CMOS			
Resolution	Thermal: 400 \times 300@12 μ m; Digital: 1920 \times 1080@4 μ m		Thermal: 640 \times 480@12 μ m Digital: 1920 \times 1080@4 μ m	
NETD	30mK			
Frame rate	50Hz			
Lens				
Objective lens	Thermal: 35mm, F1.0; Digital: 22mm, F1.5	Thermal: 50mm, F1.2; Digital: 22mm, F1.5	Thermal: 35mm, F1.0; Digital: 17mm, F1.4	Thermal: 50mm, F1.2; Digital: 17mm, F1.4
Field of view	7.8 \times 5.9 $^\circ$	5.5 \times 4.1 $^\circ$	12.4 \times 9.3 $^\circ$	8.7 \times 6.6 $^\circ$
FOV m@100m	14 \times 10	10 \times 7	22 \times 16	15 \times 12
Magnification	2.3x~9.2x	3.3x~13.2x	1.5x~12x	2.0x~16.0x
Detection range	1800m/1950yd	2600m/2800yd	1800m/1950yd	2600m/2800yd
Display				
Display type	0.39" AMOLED 1920x1080			
Color palettes	IR: White Hot, Black Hot, Red Hot, Iron Red, Blue Hot			
Scene modes	Visible: Day, Night, Low-light			
Image modes	IR, Visible, Fusion 1, Fusion 2, Fusion 3			
Eyepiece	Exit pupil distance 15 mm; Diopter: -4 to +4; Zoom: 13.8x			
Hardware				
Laser rangefinder	600m/650yd			
WIFI	2.4G			
Interface	USB Type-C			
Others	GPS, Compass, Gyroscope, Bluetooth			
System				
Recording function	Photo/Video			
Memory capacity	64GB			
Power				
Battery type	Single, replaceable 18650 battery			
Operating time	5 hours			
Environmental				
Operating temp.	-20 $^\circ$ C to 50 $^\circ$ C / -4 $^\circ$ F to +122 $^\circ$ F			
Encapsulation	IP67			
Physical				
Weight(g/oz)	530/18.70	567/20.00	530/18.70	567/20.00
Size(mm/in)	170 \times 70 \times 90/ 6.69 \times 2.76 \times 3.54	190 \times 70 \times 90/ 7.48 \times 2.76 \times 3.54	180 \times 70 \times 90/ 7.09 \times 2.76 \times 3.54	190 \times 70 \times 90/ 7.48 \times 2.76 \times 3.54
Standard	A device, Wrist strap, Battery charger, single 18650 battery, 5V2A adapter (US, Britain, Australia and Europe), USB Type-C cable, Quick use guide, Warranty card			
Optional	Bluetooth remote control, 18650 battery, Dovetail guide			

* 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.



or

DR Series

Digital Day & Night Vision Scope

Full-Screen Vision, See Beyond the Dark

outdoor

Introduction

The DR Series is a powerful and professional day and night vision scope with outstanding night vision capability, featuring an excellent 1920×1080@4μm CMOS sensor with a 35mm lens to create a large field of view of 12.5°×7.06° while the 1920×1080 full HD AMOLED display ensures your viewing experience. The 18650 Li-ion battery lasts up to 6 hours max depending on usage, ever worry about insufficient power during a hunting trip. Elevate your vision with the DR Series!

Features

- o 1920×1080@4μm CMOS sensor with a 35mm lens
- o 1920×1080 full HD AMOLED display for a better viewing experience
- o The 18650 Li-ion rechargeable battery lasts up to 6 hours max
- o Screen freeze for quick and easy zeroing
- o Screen recording to record the whole operation process for sharing
- o OTA firmware upgrade by connecting to TargetIR APP
- o IP67 encapsulation, rugged and durable

Applications

- o Night Hunting
- o Search & Rescue
- o Law Enforcement
- o Personal security



Specifications

Product model	DR30
Sensor	
Type	CMOS
Resolution	1920×1080@4μm
Frame rate	50Hz
Lens	
Objective lens	35mm, F1.2
Field of view	12.52°×7.06°
FOV m@100m	22×12
Magnification	2.175x-17.4x
Detection range	500m/550yd (850nm); 450m/500yd (940nm)
Display	
Display type	0.39" AMOLED 1920x1080
Scene modes	Day, Night, Low-light
Eyepiece	Exit pupil distance ≥ 48 mm; Diopter ± 4; Zoom: 14x
Hardware	
IR illuminator	850nm/940nm (Alternative)
WIFI	2.4G
Interface	USB Type-C
System	
Recording function	Photo/Video
Memory capacity	32 GB
Power	
Battery type	Single, replaceable 18650 battery
Operating time	6 hours
Environmental	
Operating temp.	-30 °C to 50 °C / -22°F to +122°F
Shock	800G IEC60068-2-27
Encapsulation	IP67
Physical	
Weight(g/oz)	565/19.93
Size(mm/in)	218×88×66/8.58×3.46×2.60
Standard	Device, Sight base (Choose from two specifications), Type-C cable, 5V2A adapter (US, Britain, Australia and Europe), 18650 battery, Battery charger, Lens cover, Eye mask, IR illuminator, IR illuminator bracket, Quick start guide, Warranty card
Optional	18650 battery, Bluetooth remote control, Laser rangefinder

* 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.



or

DU Series

Digital Day & Night Vision Scope

The Ideal Nighttime Hunting Partner

outdoor

Introduction

DU Series is a high-performance Digital Day & Night Vision Scope designed for professional hunting. The high-sensitivity 1920x1080 CMOS Sensor that offers outstanding image quality. The full-color HD 1920x1080 AMOLED display guarantees the smallest image detail with meticulous care to respect users' wishes. The advanced dual battery system provides up to 15 hours of non-stop use from day to night.

Features

- o Highly Sensitive 1920x1080 Sensor for image acquisition
- o Full HD AMOLED Display for image detail
- o Day, Low-light and Night modes
- o 15 hours super long battery life
- o Mounting on standard 30 mm rings
- o 10 distinct reticles with 6 color schemes and 10 levels of brightness
- o Compact and lightweight
- o Encapsulation IP67

Applications

- o Night Hunting
- o Search & Rescue
- o Law Enforcement
- o Personal security



Specifications

Product model	DU50
Sensor	
Type	CMOS
Resolution	1920×1080@4μm
Frame rate	50 Hz
Lens	
Objective lens	50mm, F1.2
Field of view	9°×5.2°
FOV m@100m	16×9
Magnification	3.125x~25x
Detection range	600m/650yd (850nm); 550m/600yd (940nm)
Display	
Display type	0.39" AMOLED 1920x1080
Scene modes	Day, Night, Low-light
Eyepiece	Exit pupil distance ≥ 48 mm; Diopter ± 4; Zoom: 14x
Hardware	
IR illuminator	850nm/940nm (Alternative)
WIFI	2.4G
Interface	USB Type-C
Tube diameter	Standard 30 mm
System	
Recording function	Photo/Video
Memory capacity	32 GB
Power	
Battery type	Single 18650 battery (built-in) and customized battery (external)
Operating time	15 hours
Environmental	
Operating temp.	-30 °C to 50 °C / -22°F to +122°F
Shock	800G IEC60068-2-27
Encapsulation	IP67
Physical	
Weight(g/oz)	980/34.57
Size(mm/in)	371×107×68/14.60×4.21×2.68
Standard	Device, Lens cover, Eye mask, 5V2A adapter (US, Britain, Australia and Europe), Customized battery×2, Customized battery charger, USB Type-C cable, Micro HDMI cable, Clip×2, IR illuminator, IR illuminator bracket, Quick start guide, Warranty card
Optional	Customized battery, Laser rangefinder, Bluetooth controller, Dovetail rail

* 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.



or

TN Series

Handheld Thermal Imaging Binoculars

Fearless the darkness,
All in your eyes

outdoor

Introduction

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 AMOLED 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

- o IR resolution up to 640 × 480, Superior image quality
- o Quick location, laser ranger finder with 1000m/1500m accuracy
- o Full color AMOLED 1024×768 high-definition display, easy observation
- o Adjustable interpupillary distance between 60mm~70mm
- o Well-designed PIP mode, highlighting the target
- o Realize live image and remote control via WIFI connection

Applications

- o Night Hunting
- o Search & Rescue
- o Law Enforcement
- o Personal security



Specifications

Product model	TN430	TN450	TN630	TN650
Sensor				
Type	Uncooled VOx Infrared Detector, 8 to 14μm			
Resolution	400×300@17μm		640×480@12μm	
NETD	30mK			
Frame rate	50Hz			
Lens				
Objective lens	35mm, F1.2	50mm, F1.2	35mm, F1.2	50mm, F1.2
Field of view	11.1°×8.33°	7.78°×5.84°	12.52°×9.41°	8.78°×6.59°
FOV m@100m	19×15	14×10	22×16	15×12
Magnification	2.3x-9.2x	3.2x-12.8x	2.0x-16.0x	2.8x-22.4x
Detection range	1300m/1400yd	1800m/1950yd		2600m/2800yd
Display				
Display type	0.39" AMOLED 1024×768			
Color palettes	Black Hot, White Hot, Adjustable Red Hot, Iron Red, Blue Hot, Green Hot			
Eyepiece	Exit pupil distance 16 mm; Diopter: -6 to +6; Interpupillary distance adjustment: 60mm to 70mm; Zoom: 13.8x			
Hardware				
Laser rangefinder	1000m/1090yd		1500m/1630yd	
WIFI	2.4G			
Interface	USB Type-C; Micro HDMI			
Others	GPS, Compass, Gyroscope, Bluetooth			
System				
Recording function	Photo/Video			
Memory capacity	16GB			
Power				
Battery type	2 replaceable 18650 batteries			
Operating time	5.5 hours			
Environmental				
Operating temp.	-30 °C to 50 °C / -22°F to +122°F			
Encapsulation	IP66			
Physical				
Weight(g/oz)	860/30.34	880/31.04	860/30.34	880/31.04
Size(mm/in)	162×146×70/6.38×5.75×2.76			
Standard	Device, lens cap, 2 detachable eye masks, carry bag, shoulder strap, 5V2A adapter (US, Britain, Australia and Europe), 2 replaceable 18650 batteries, Battery charger, USB Type-C cable, micro HDMI cable, quick start guide			
Optional	Extended bracket, Bluetooth remote control			

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or

DN Series

Handheld Digital Binoculars

4K UHD imaging
day and night servicing

outdoor

Introduction

Experience 4K ultra-high-definition visuals with the DN Series. Its 3840x2160@2µm moonlight low-light CMOS sensor and 1920x1080 AMOLED display create stunning images day and night. In the case of sufficient light, the 4K low-light detector has a strong color rendition ability, presenting more delicate and colorful images; and in the morning, dusk, and night when there is insufficient light, turn on the infrared fill light, and you can “see through” the dark night from a long distance to observe, identify, and monitor hidden targets ahead.

Features

- o 4K UHD Clarity: 3840x2160@2µm CMOS sensor + 1920x1080 AMOLED display.
- o Day/Night Versatility: Day/Low-light/Night image modes, HD full-color display anytime.
- o Effortless Evidence Collection: Easily capture photos and record videos with one click.
- o Laser Range: Pinpoint target locations with accuracy, up to 1000m.
- o WIFI: The connected app via WIFI for remote control, live image and video transmission.
- o OTA Upgrade: Support device firmware updates by connecting TargetIR APP.
- o Ergonomic Design: Binocular design with adjustable 60mm-70mm pupil distance.
- o Extended Endurance: Enjoy up to 6 hours of continuous outdoor use.

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



Specifications

Product model	DN30
Sensor	
Type	CMOS
Resolution	3840×2160@2μm
Frame rate	50Hz
Lens	
Objective lens	35mm, F1.0
Field of view	12.57°×7.12°
FOV m@100m	22×12
Magnification	1.96x~15.68x
Detection range	600m/650yd
Display	
Display type	0.39" AMOLED 1920x1080
Scene modes	Day, Night, Low-light
Eyepiece	Exit pupil distance 16 mm; Diopter: -4 to+2; Interpupillary distance adjustment: 60mm to 70mm; Zoom: 13.8x
Hardware	
Laser rangefinder	1000m/1090yd
IR illuminator	940 nm
WIFI	2.4G
Interface	USB Type-C
Others	GPS, Compass, Gyroscope, Bluetooth
System	
Recording function	Photo/Video
Memory capacity	32GB
Power	
Battery type	2 replaceable 18650 batteries
Operating time	6 hours
Environmental	
Operating temp.	-30 °C to 50 °C / -22°F to +122°F
Encapsulation	IP66
Physical	
Weight(g/oz)	940/33.16
Size(mm/in)	162×146×70/6.38×5.75×2.76
Standard	Device, lens cap, 2 detachable eye masks, carry bag, shoulder strap, 5V2A adapter (US, Britain, Australia and Europe), 2 replaceable 18650 batteries, Battery charger, USB Type-C cable, micro HDMI cable, quick start guide
Optional	Bluetooth remote control, Extended bracket

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or

TU Gen2 Series

Thermal Imaging Scope

Unlock Hidden Detail

with HD AMOLED Display

outdoor

Introduction

The TU Gen2 Series is equipped with a high-sensitivity thermal sensor of 12μm and a 1440×1080 HD AMOLED display. Paired with the robust PureIR image algorithm, it provides users with a more vivid and detailed visual experience. The product has undergone meticulous optimization in its detailed design, elevating user-friendly operation. Furthermore, the battery life has seen a substantial extension, resulting in a 20% increase in duration.

Features

- o 0.49" AMOLED display for higher image quality and reduced visual fatigue
- o The PureIR algorithm for high-sensitivity thermal images
- o Super long battery life of up to 12 hours
- o Connect mobile APP for OTA firmware upgrade and ballistics calculation
- o Video recording including sound
- o IP67 encapsulation, resistant to 800G shock
- o User-friendly improved left-hand operation experience and optimized opening direction of USB cover

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



Specifications

Product model	TU431	TU451	TU631	TU651
Sensor				
Type	Uncooled VOx Infrared Detector, 8 to 14μm			
Resolution	400×300@12μm		640×512@12μm	
NETD	25mK		20mK	
Frame rate	50 Hz			
Lens				
Objective lens	35mm, F1.0	50mm, F1.0	35mm, F1.0	50mm, F1.0
Field of view	7.8°×5.9°	5.5°×4.1°	12.5°×10.0°	8.8°×7.0°
FOV m@100m	14×10	10×7	22×17	15×12
Magnification	3.3x~13.2x	4.7x~18.9x	2.1x~16.6x	3.0x~23.6x
Detection range	1800m/1950yd	2600m/2800yd	1800m/1950yd	2600m/2800yd
Display				
Display type	0.49" AMOLED 1440×1080			
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia			
Eyepiece	Exit pupil distance 48 mm; Diopter ± 4; Zoom: 14x			
Hardware				
WIFI	2.4G			
Interface	USB Type-C; Micro HDMI			
Tube diameter	Standard 30 mm			
Others	Microphone, Bluetooth			
System				
Recording function	Photo/Video (Audio recording included)			
Memory capacity	128GB			
Power				
Battery type	Single 18650 battery (built-in) and customized battery (external)			
Operating time	12 hours			
Environmental				
Operating temp.	-30°C to 50°C / -22°F to +122°F			
Shock	800G (as per IEC60068-2-27)			
Encapsulation	IP67			
Physical				
Weight (g/oz)	981/34.60	987/34.82	971/34.25	1000/35.27
Size (mm/in)	368×106×68/14.49×4.17×2.68	381×106×68/15.00×4.17×2.68	368×106×68/14.49×4.17×2.68	381×106×68/15.00×4.17×2.68
Standard	Device, Lens cover, Eye mask, 5V2A adapter (US, Britain, Australia and Europe), Customized battery×2, Customized battery charger, USB Type-C cable, Micro HDMI cable, Clip×2, Quick start guide, Warranty card			
Optional	Bluetooth remote control, Customized battery			

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TU Gen2 LRF Series

Thermal Imaging Scope

Redefine Hunting
by Laser Ranging

outdoor

Introduction

With the laser rangefinder seamlessly integrated into a slim-design scope, the TU Gen2 LRF Series enables precise detection of targets at distances of up to 1500 meters, empowering hunters with a reliable perception of distance at the hunting site to make accurate shots. The product has undergone meticulous optimization in its detailed design, elevating user-friendly operation. Furthermore, the battery life has seen a substantial extension, resulting in a 20% increase in duration.

Features

- o 0.49" AMOLED display for higher image quality and reduced visual fatigue
- o The PureIR algorithm for high-sensitivity thermal images
- o Built-in laser rangefinder for 1500m accurate target detection
- o Super long battery life of up to 12 hours
- o Connect mobile APP for OTA firmware upgrade and ballistics calculation
- o Video recording including sound
- o IP67 encapsulation, resistant to 800G shock
- o User-friendly improved left-hand operation experience and optimized opening direction of USB cover

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



Specifications

Product model	TU431 LRF	TU451 LRF	TU631 LRF	TU651 LRF
Sensor				
Type	Uncooled VOx Infrared Detector, 8 to 14µm			
Resolution	400×300@12µm		640×512@12µm	
NETD	25mK		20mK	
Frame rate	50 Hz			
Lens				
Objective lens	35mm, F1.0	50mm, F1.0	35mm, F1.0	50mm, F1.0
Field of view	7.8°×5.9°	5.5°×4.1°	12.5°×10.0°	8.8°×7.0°
FOV m@100m	14×10	10×7	22×17	15×12
Magnification	3.3x~13.2x	4.7x~18.9x	2.1x~16.6x	3.0x~23.6x
Detection range	1800m/1950yd	2600m/2800yd	1800m/1950yd	2600m/2800yd
Display				
Display type	0.49" AMOLED 1440×1080			
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia			
Eyepiece	Exit pupil distance 48 mm; Diopter ± 4; Zoom: 14x			
Hardware				
Laser rangefinder	1500m/1630yd			
WIFI	2.4G			
Interface	USB Type-C; Micro HDMI			
Tube diameter	Standard 30 mm			
Others	Microphone, Bluetooth			
System				
Recording function	Photo/Video (Audio recording included)			
Memory capacity	128GB			
Power				
Battery type	Single 18650 battery (built-in) and customized battery (external)			
Operating time	12 hours			
Environmental				
Operating temp.	-30°C to 50°C / -22°F to +122°F			
Shock	800G (as per IEC60068-2-27)			
Encapsulation	IP67			
Physical				
Weight (g/oz)	1151/40.60		1141/40.25	1171/41.31
Size (mm/in)	368×106×99/14.49×4.17×3.9	381×106×99/15.00×4.17×3.9	368×106×99/14.49×4.17×3.9	381×106×99/15.00×4.17×3.9
Standard	Device, Lens cover, Eye mask, 5V2A adapter (US, Britain, Australia and Europe), Customized battery×2, Customized battery charger, USB Type-C cable, Micro HDMI cable, Clip×2, Quick start guide, Warranty card			
Optional	Bluetooth remote control, Customized 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.

or



TD Gen2 Series

Handheld Thermal Imaging Monocular

outdoor

Delight with AMOLED

Introduction

TD Gen2 Series follows the design of traditional optical equipment. It is a lightweight, portable, simple operation with a wide range of application scenarios for handheld thermal imaging monoculars. With a high-brightness AMOLED display, TD Gen2 Series provides clear imaging and a comfortable viewing experience with a battery life of up to 10 hours, making it the ideal equipment for outdoor night vision.

Features

- o Boot up in 2 seconds and ready to use
- o High-brightness AMOLED display for a comfortable observation
- o Upgraded image algorithm for richer details
- 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 Night Hunting
- o Law Enforcement
- o Wild Adventure
- o Search & Rescue
- o Personal security
- o Livestock Breeding



Specifications

Product model	TD211	TD411	TD421	TD431
Sensor				
Type	Uncooled VOx Infrared Detector, 8 to 14μm			
Resolution	256×192@12μm	384×288@12μm		
NETD	50mK	35mK		
Frame rate	50Hz			
Lens				
Objective lens	10mm, F1.0	19mm, F1.0	25mm, F1.1	35mm, F1.0
Field of view	17.5°×13.2°	13.6°×10.3°	10.4°×7.9°	7.5°×5.6°
FOV m@100m	31×23	24×18	18×14	13×10
Magnification	1.1x~2.2x	1.4x~5.6x	1.9x~7.6x	2.6x~10.4x
Detection range	500m/550yd	1000m/1090yd	1300m/1400yd	1800m/1950yd
Focus	Focus-free	Manual		
Display				
Display type	0.23" AMOLED 640×400			
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia			
Eyepiece	Eye relief: 12mm; Diopter: -4 to +2; Zoom: 18x			
Hardware				
WIFI	2.4G			
Interface	USB Type-C			
Power				
Battery type	Single, replaceable 18650 battery			
Operating time	12 hours	10 hours		
Environmental				
Encapsulation	IP66			
Physical				
Weight (g/oz)	280/9.88	330/11.64	325/11.46	345/12.17
Size (mm/in)	140×45×74/5.51×1.77×2.91	150×45×74/5.91×1.77×2.91		150×49×74/5.91×1.93×2.91
Standard	Device, Lens cover and lanyard, Wrist strap, Carry bag, Eye mask, Battery charger, Single 18650 battery, USB Type-C cable, Quick use guide, Warranty card			

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TD Gen2 LRF Series

Handheld Thermal Imaging Monocular

outdoor

Ranging, All in Your Control

Introduction

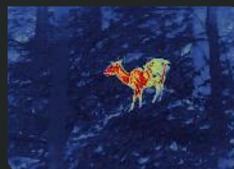
The TD Gen2 Series laser rangefinder version is the industry's first entry-level full-featured handheld thermal imaging monoculars. While inheriting the characteristics of the previous generation, such as being lightweight, portable, easy to operate, and durable, it integrates a high-precision laser 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

- o Boot up in 2 seconds and ready to use
- o High-brightness AMOLED 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 Night Hunting
- o Law Enforcement
- o Wild Adventure
- o Search & Rescue
- o Personal security
- o Livestock Breeding



Specifications

Product model	TD411 LRF	TD421 LRF	TD431 LRF	TD631 LRF
Sensor				
Type	Uncooled VOx Infrared Detector, 8 to 14μm			
Resolution	384×288@12μm		640×480@12μm	
NETD	35mK			
Frame rate	50Hz			
Lens				
Objective lens	19mm, F1.0	25mm, F1.1	35mm, F1.0	
Field of view	13.6°×10.3°	10.4°×7.9°	7.5°×5.6°	12.5°×9.4°
FOV m@100m	24×18	18×14	13×10	22×16
Magnification	1.4x~5.6x	1.9x~7.6x	2.6x~10.4x	1.7x~13.6x
Detection range	1000m/1090yd	1300m/1400yd	1800m/1950yd	
Focus	Manual			
Display				
Display type	0.23" AMOLED 640×400			
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia			
Eyepiece	Eye relief: 12mm; Diopter: -4 to +2; Zoom: 18x			
Hardware				
Laser rangefinder	600m/650yd			
WIFI	2.4G			
Interface	USB Type-C			
Power				
Battery type	Single, replaceable 18650 battery			
Operating time	10 hours		8 hours	
Environmental				
Encapsulation	IP66			
Physical				
Weight (g/oz)	383/13.51	360/12.70	393/13.86	399/14.07
Size (mm/in)	150×75×74/5.91×2.95×2.91		150×77×74/5.91×3.03×2.91	153×77×74/6.02×3.03×2.91
Standard	Device, Lens cover and lanyard, Wrist strap, Carry bag, Eye mask, Battery charger, Single 18650 battery, USB Type-C cable, Quick use guide, Warranty card			

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