

A large stag with impressive antlers stands in a grassy field, facing right. The background is a dense forest of tall evergreen trees. The lighting is soft, suggesting early morning or late afternoon. In the distance, another smaller stag is visible through the trees.

OUTDOOR PRODUCTS

2025

Smarter Infrared, Smarter Future



GiM (Guide Intelligent Manufacturing) is an OEM/ODM brand under Wuhan Guide Sensmart Tech Co., Ltd., specializing in intelligent manufacturing of thermal imaging technologies. Committed to delivering customized services and cost-effective optoelectronic solutions for global clients, GiM leverages proprietary infrared core technologies and large-scale production capabilities to rapidly respond to the diverse needs as hunting, outdoor sports, animal research, and law enforcement. Our portfolio includes customized development of a wide range of products, including thermal monoculars, binoculars, thermal scopes, clip-on accessories, and multispectral devices.

With a state-of-the-art smart factory, GiM integrates AGV intelligent logistics, SMT production lines, automated assembly, and multi-dimensional inspection systems to enable full-process automation and intelligent production control—ensuring efficient and precise manufacturing. Backed by over 20 years of industry experience and robust supply chain integration, GiM provides high-quality products with delivery efficiency and cost advantages, helping clients optimize productivity and accelerate industry growth.

20+ Years of Expertise

Custom OEM/ODM solutions with proven reliability.

One-Stop R&D & Manufacturing

Full infrared industry chain for streamlined development.

1.5M+ Annual Capacity

Certified by CE, FCC, and other global standards.

Global Support

Professional service from pre-sales to after-sales.

ABOUT GiM



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TE Mini Series

Touch and Enjoy

Handheld Thermal Imaging Monocular

Features

- Ultra-Lightweight: Only 205 grams, effortlessly portable.
- Comfortable Viewing: Integrated 1.43" touchscreen, reducing eye fatigue.
- Extended Battery: 6h runtime, 20W quick charging.
- Smooth Operation: One-button & one-ring design, for simply operation.
- Audio-Visual Sync: Record video with synced audio.
- Rugged Design: IP66-rated for all-weather durability.
- Smart Connectivity: Control via mobile APP, OTA firmware updates.



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	IP66
Physical	
Weight (g/oz)	205/7.23
Size (mm/in)	49×49×111/1.93×1.93×4.37
Standard	Device, Wrist Strap, USB-A to USB-C Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth Remote Control, Quick Charging Adapter, USB-C to USB-C Cable

TE Series

Smaller Yet Sharp

Handheld Thermal Imaging Monocular

Features

- Ultra-Lightweight: Only 200+ grams, effortlessly portable.
- Comfortable Viewing: 0.32-inch screen for clear and smooth visuals.
- Extended Battery: 6h runtime, 20W quick charging.
- Smooth Operation: One-button & one-ring design, for simply operation.
- Audio-Visual Sync: Record video with synced audio.
- Rugged Design: IP66-rated for all-weather durability.
- Smart Connectivity: Control via mobile APP, OTA firmware updates.



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	IP66		
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, Wrist Strap, USB-A to USB-C Cable, Quick Start Guide, Warranty Card	Device, Wrist Strap, Quick Charging Adapter (US, UK, Australia, and Europe), USB-C to USB-C Cable, Quick Start Guide, Warranty Card	
Optional	Bluetooth Remote Control, Quick Charging Adapter, USB-C to USB-C Cable	Bluetooth Remote Control, USB-A to USB-C Cable	

TD Gen3 Series

Fingertip focus

Handheld Thermal Imaging Monocular

Features

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



Specifications

Product model	TD413	TD423	TD433	TD623	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	19mm, F1.0	25mm, F1.0	35mm, F1.0	25mm, F1.0	35mm, F1.0	50mm, F1.0
Field of view	14.4°×10.8°	11.0°×8.2°	7.9°×5.9°	17.5°×13.1°	12.5°×9.4°	8.8°×6.6°
FOV m@100m	25x19	19x14	14×10	31x23	22×17	15×12
Magnification	1.6x~6.4x	2.1x~8.4x	2.9x~11.6x	1.3x~10.4x	1.8x~14.4x	2.6x~20.8x
Detection range	1000m/1090yd	1300m/1400yd	1800m/1950yd	1300m/1400yd	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)	349/12.31	343/12.10	355/12.52	350/12.35	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, Hand Strap, Battery Charger, 18650 Battery ×1, 5V 2A Adapter (US, UK, Australia and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card					
Optional	Bluetooth Remote Control, 18650 Battery					

TD Gen3 LRF Series

Handheld Thermal Imaging Monocular

Seize the Hunt

Features

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



Specifications

Product model	TD413L	TD423L	TD433L	TD623L	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	19mm, F1.0	25mm, F1.0	35mm, F1.0	25mm, F1.0	35mm, F1.0	50mm, F1.0
Field of view	14.4°×10.8°	11.0°×8.2°	7.9°×5.9°	17.5°×13.1°	12.5°×9.4°	8.8°×6.6°
FOV m@100m	25x19	19x14	14×10	31x23	22×17	15×12
Magnification	1.6x~6.4x	2.1x~8.4x	2.9x~11.6x	1.3x~10.4x	1.8x~14.4x	2.6x~20.8x
Detection range	1000m/1090yd	1300m/1400yd	1800m/1950yd	1300m/1400yd	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)	361/12.73	357/12.59	370/13.05	364/12.84	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, Hand Strap, Battery Charger, 18650 Battery ×1, 5V 2A Adapter (US, UK, Australia and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card					
Optional	Bluetooth Remote Control, 18650 Battery					

TJ Series

Indulge in A Visual Feast

Handheld Thermal Imaging Monocular

Features

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



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°×8.2°	7.9°×5.9°	12.5°×10°	8.8°×7°
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
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			
Eyeiece	Eye relief: 16mm; Diopter: -6 to +6; Zoom: 18x			
Hardware				
WIFI	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	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	Device, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card			
Optional	Bluetooth Remote Control, 18650 Battery			

TJ LRF Series

Welcome to the Big Screens

Handheld Thermal Imaging Monocular

Features

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



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°×8.2°	7.9°×5.9°	12.5°×10°	8.8°×7°
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
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: 16mm; Diopter: -6 to +6; Zoom: 18x			
Hardware				
Laser rangefinder	1000m/1090yd			
WIFI	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	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	Device, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card			
Optional	Bluetooth Remote Control, 18650 Battery			

TJ LRF Pro Series

Laser Sharp at 1500m

Handheld Thermal Imaging Monocular

Features

- 12μm advanced thermal detector, NETD down to 18mK.
- Stunning visual effects like a 90" home theater at 2.5m distance.
- Laser Range Finder up to 1500m.
- Button and battery design allows blind installation in the dark.
- Adaptable for left-and right-handed use.
- Video recording including synced audio.



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		50Hz/120Hz
Lens			
Objective lens	35mm, F1.0	50mm, F1.0	
Field of view	12.5°×10°	8.8°×7°	17.5°×14°
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	
Focus	Manual		
Display			
Display type	0.5" AMOLED 1600×1200		
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia		
Eyepiece	Eye relief: 16mm; Diopter: -6 to +6; Zoom: 18x		
Hardware			
Laser rangefinder	1500m/1630yd		
WIFI	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	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	Device, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card		
Optional	Bluetooth Remote Control, 18650 Battery		

TJ LRF Zoom Series

Dual Focus, Infinite Views

Handheld Thermal Imaging Monocular

Features

- 640×512@12μm detector with 20mm/60mm dual FOV lens.
- Full-HD 1920×1080 AMOLED display.
- Laser Range Finder up to 1000m.
- Button and battery design allows blind installation in the dark.
- Adaptable for left-and right-handed use.
- Video recording including synced audio.
- IP67, 10 hours of operation.



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
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: 16mm; Diopter: -6 to +6; Zoom: 18x
Hardware	
Laser rangefinder	1000m/1090yd
WIFI	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	128GB
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	Device, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth Remote Control, 18650 Battery

TL Series

Triple Light, Total Insight

Multispectral Fusion Thermal Monocular

Features

- Integrated thermal and night vision for all-day and all-weather observation.
- 12μm HD thermal sensor and 1920x1080 AMOLED display for reduced visual fatigue.
- Built-in laser rangefinder for 600m accurate target detection.
- Built-in GPS for accurate target positioning.
- Combined multispectral viewing modes for faster observation.
- Removable single 18650 battery for 5 hours of battery life.
- OTA firmware upgrade by connecting to the TargetIR APP.
- IP67 encapsulation, rugged and durable.



Specifications

Product model	TL430	TL450	TL630	TL650
Sensor				
Type	Thermal: Uncooled VOx Infrared Detector, 8 to 14μm; Digital: CMOS			
Resolution	Thermal: 400×300@12μm; Digital: 1920×1080@4μm		Thermal: 640×480@12μm; Digital: 1920×1080@4μm	
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°×5.9°	5.5°×4.1°	12.4°×9.3°	8.7°×6.6°
FOV m@100m	14×10	10×7	22×16	15×12
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
Focus	Manual			
Display				
Display type	0.39" AMOLED 1920×1080			
Color palettes	IR: White Hot, Black Hot, Red Hot, Iron Red, Blue Hot; Visible: Day, Night, Low-light			
Image modes	IR, Visible, Fusion 1, Fusion 2, Fusion 3			
Eyepiece	Eye relief: 15mm; Diopter: -4 to +4; Zoom: 13.8x			
Hardware				
Laser rangefinder	600m/650yd			
WIFI	2.4G			
Interface	USB-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°C to 50°C / -4°F to +122°F			
Encapsulation	IP67			
Physical				
Weight (g/oz)	530/18.70	567/20.00	530/18.70	567/20.00
Size (mm/in)	170×70×90/6.69×2.76×3.54	190×70×90/7.48×2.76×3.54	180×70×90/7.09×2.76×3.54	190×70×90/7.48×2.76×3.54
Standard	Device, Battery Charger, 18650 Battery ×1, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card			
Optional	Bluetooth Remote Control, 18650 Battery			

TN 2.0 Series

One Finger Focus, Ready for Action

Handheld Thermal Imaging Binoculars

Features

- Classic slim binocular structure with stepless adjustable 58–72mm interpupillary distance.
- 12μm thermal detector + 18mK NETD with Hyper-light enhancement algorithm.
- Precision focus wheel for effortless one-handed use; customizable mute buttons for a personalized user experience.
- Pinpoint target locations with accuracy, up to 1500m.
- Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP.
- IP67-rated with auto screen-off for both energy saving and discreet use.



Specifications

Product model	TN435L 2.0	TN450L 2.0	TN635L 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	35mm, F1.0	50mm, F1.0	35mm, F1.0	50mm, F1.0
Field of view	7.4°×4.4°	5.2°×3.1°	11.8°×7.1°	8.2°×5.0°
FOV m@100m	13x8	9×5	21x12	14×9
Magnification	4.4x~17.6x	6.2x~24.8x	2.7x~21.6x	3.9x~31.2x
Detection range	1800m/1950yd	2600m/2800yd	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			
Eyeiece	Eye relief: 20mm; Diopter: -6 to +6; Interpupillary distance adjustment: 58~72mm; Zoom: 13.8x			
Hardware				
Laser rangefinder	1200m/1310yd	1500m/1630yd	1200m/1310yd	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)	632/22.29	722/25.47	641/22.61	712/25.11
Size (mm/in)	191×134×64/7.52×5.28×2.52	208×137×68.5/8.2×5.39×2.69	191×134×64/7.52×5.28×2.52	208×137×68.5/8.2×5.39×2.69
Standard	Device, Neck Strap, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card			
Optional	Bluetooth Remote Control, 18650 Battery			

TN Muo 2.0 Series

Fusion Vision, Zero Blind Spot

Multispectral Fusion Thermal Binoculars

Features

- 640×512 high-sensitivity thermal detector + 3840×2160 low-light CMOS sensor.
- 12μm thermal detector + 18mK NETD with Hyper-light enhancement algorithm.
- Classic slim binocular structure with stepless adjustable 58–72mm interpupillary distance.
- Precision focus wheel for effortless one-handed use; customizable mute buttons for a personalized user experience.
- Integrated rangefinder, GPS, and digital compass to support informed decision-making.
- IP67-rated with auto screen-off for both energy saving and discreet use.



Specifications

Product model	TN635M 2.0	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: 35mm, F1.0; Digital:22mm, F1.5	Thermal: 50mm, F1.0; Digital: 33mm, F1.4
Field of view	Thermal: 11.8°×7.1°; Digital: 18.6°×11.2°	Thermal: 8.2°×5.0°; Digital: 12.5°×7.5°
FOV m@100m	Thermal: 21×12; Digital: 33×20	Thermal: 14×9; Digital: 22×13
Magnification	Thermal: 2.7x~21.6x; Digital: 1.7x~13.6x	Thermal: 3.9x~31.2x; Digital: 2.6x~20.8x
Detection range	Thermal: 1800m/1950yd; Digital: 660m/720yd	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	
Eyeiece	Eye relief: 20mm; Diopter: -6 to +6; Interpupillary distance adjustment: 58~72mm; Zoom: 13.8x	
Hardware		
Laser rangefinder	1200m/1310yd	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)	825/29.10	865/30.51
Size (mm/in)	226×133×64/8.90×5.24×2.52	
Standard	Device, Neck Strap, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card	
Optional	Bluetooth Remote Control, 18650 Battery	

DN Muo 2.0 Series

Less Mass, More Might

Multispectral Fusion Digital Binoculars

Features

- Integrated thermal imaging and visible-light sensor for seamless 24-hour observation.
- Slim binocular design with stepless 58–72mm interpupillary adjustment.
- Precision focus wheel for effortless one-handed use; customizable mute buttons for a personalized user experience.
- Easily capture photos and record 4K videos with one click.
- Integrated rangefinder, GPS, and digital compass to support informed decision-making.
- Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP.
- IP67-rated with auto screen-off for both energy saving and discreet use.



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
Eyeiece	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, Neck Strap, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth Remote Control, 18650 Battery

DN 2.0 Series

4K Clarity, Smart Choice

Handheld Digital Binoculars

Features

- Slim binocular design with stepless 58–72mm interpupillary adjustment.
- 3840×2160 low-light CMOS sensor paired with a 1920×1080 AMOLED display.
- Precision focus wheel for effortless one-handed use; customizable mute buttons for a personalized user experience.
- Pinpoint target locations with accuracy, up to 1200m.
- Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP.
- IP67-rated with auto screen-off for both energy saving and discreet use.



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/1310yd
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, Neck Strap, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth Remote Control, 18650 Battery

TB Series

IP68: Conquering Wind and Rain

Thermal Imaging Attachment

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 synced audio.
- IP68, Shock resistance up to 1000G.



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°×8.2°	7.8°×5.9°	12.5°×10°
FOV m@100m	19×14	14×10	22×17
Magnification	1x		
Detection range	1300m/1400yd	1800m/1950yd	
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		
Hardware			
WIFI	2.4G, 5G		
Interface	USB-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	Device, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), 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	B / Weighs 80g	C / Weighs 90g
Type	Compatible with 38/40/42/44/46mm	Compatible with 48/50/52/54mm	Compatible with 56/58/60/62/64mm

TB LRF Series

Ultra-light, Ultra-strong

Thermal Imaging Attachment

Features

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



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°		
FOV m@100m	22×17		
Magnification	1x		
Detection range	1800m/1950yd		
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		
Hardware			
Laser rangefinder	1000m/1090yd		
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	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	Device, Rail, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card		Device, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), 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	B / Weighs 80g	C / Weighs 90g
Type	Compatible with 38/40/42/44/46mm	Compatible with 48/50/52/54mm	Compatible with 56/58/60/62/64mm

TB Pro Series

50mm Vision, all in Control

Thermal Imaging Attachment

Features

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



Specifications

Product model	TB650P		TB1250P
Sensor			
Type	Uncooled VOx Infrared Detector, 8 to 14μm		
Resolution	640×512@12μm		1280×1024@12μm
NETD	20mK		18mK
Frame rate	50Hz		50Hz/120Hz
Lens			
Objective lens	50mm, F1.0		
Field of view	8.8°×7°		17.5°×14°
FOV m@100m	15×12		31×25
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		
Hardware			
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		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	Device, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), 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	B / Weighs 80g	C / Weighs 90g
Type	Compatible with 38/40/42/44/46mm	Compatible with 48/50/52/54mm	Compatible with 56/58/60/62/64mm

TB LRF Pro Series

1500m, in Your Reach

Thermal Imaging Attachment

Features

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



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		50Hz/120Hz
Lens			
Objective lens	35mm, F1.0	50mm, F1.0	
Field of view	12.5°×10°	8.8°×7°	17.5°×14°
FOV m@100m	22×17	15×12	31×25
Magnification	1x		
Detection range	1800m/1950yd	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		
Hardware			
Laser rangefinder	1000m/1090yd		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		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	Device, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), 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	B / Weighs 80g	C / Weighs 90g
Type	Compatible with 38/40/42/44/46mm	Compatible with 48/50/52/54mm	Compatible with 56/58/60/62/64mm

TB 2.0 Series

Silky Imaging, Far-Range Command

Thermal Imaging Attachment

Features

- True zero-shutter calibration for seamless, uninterrupted visuals.
 - Powered by Hyper-light algorithm and high-sensitivity detectors.
 - Replaceable, rechargeable battery with low-power design for extended runtime.
 - 1.2cm@100m per-click adjustment, compatible with 15x daylight optics.
 - Integrated laser rangefinder in the lens elevates ranging accuracy.
- (Exclusive to TB650P 2.0)



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		
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)	470/16.58	485/17.11	
Size (mm/in)	138.5x92x79.5/5.45×3.62×3.13	145x92x79.5/5.71×3.62×3.13	
Standard	Device, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), 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	B / Weighs 80g	C / Weighs 90g
Type	Compatible with 38/40/42/44/46mm	Compatible with 48/50/52/54mm	Compatible with 56/58/60/62/64mm

TR Series

Enduring Performance, Day and Night

Thermal Imaging Scope

Features

- Fast and easy replaceable 18650 battery for 8 hours of operation.
- 1024x768 resolution HD AMOLED display for image detail.
- Video recording including synced audio.
- Connect mobile APP for OTA firmware upgrade, Ballistic APP for ballistic solutions.
- Screen freezing for quick and easy zeroing.
- Get precise 600m laser ranging using an external range finder.
- IP 67 dustproof and waterproof rated.



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°	12.5°×10°	8.8°×7°
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
Focus	Manual					
Display						
Display type	0.39" AMOLED 1024×768					
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia					
Eyepiece	Eye relief: 48mm; Diopter -4 to +4; Zoom: 14x					
Hardware						
WIFI	2.4G					
Interface	USB-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, 18650 Battery, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card					
Optional	Bluetooth Remote Control, Laser Rangefinder, 18650 Battery					

TU Cute 3.0 Series

Big Vision, Smart Touch

Thermal Imaging Scope

Features

- High-sensitivity thermal sensor × Hyper-light algorithm.
- Integrated 1.43" touchscreen to reduce eye fatigue.
- Shutterless 3.0 design ensures smooth, uninterrupted visuals.
- Only 438g, effortlessly portable.
- IP68-rated, shock resistance up to 6000J.
- Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP, ballistic solutions via Ballistic APP.



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, Quick-Release Scope Mount, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth Remote Control, Laser Rangefinder, 18650 Battery

TU SE 3.0 Series

LPV0, Small but Mighty

Thermal Imaging Scope

Features

- High-sensitivity thermal sensor × Hyper-light algorithm.
- Shutterless 3.0 design ensures smooth, uninterrupted visuals.
- Center-mounted focus wheel and zoom lever for ergonomic control.
- Only 575g, effortlessly portable.
- IP68-rated, shock resistance up to 6000J.
- Auto-saves video/photo per shot, capturing shooting moments.
- OTA upgrade via TargetIR APP, ballistic solutions via Ballistic APP.



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
Eyeiece	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, Quick-Release Scope Mount, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth Remote Control, Laser Rangefinder, 18650 Battery

TU 3.0 Series

Travel Light, Perform Strong

Thermal Imaging Scope

Features

- 12μm thermal detector with 18mK NETD for exceptional sensitivity.
- Hyper-light algorithm delivers ultra-detailed infrared imaging.
- Shutterless 3.0 design ensures smooth, uninterrupted visuals.
- Center-mounted focus wheel and zoom lever for ergonomic control.
- IP68-rated, shock-resistant up to 6000J.
- Dual-band 2.4G/5G Wi-Fi for faster data transfer.
- OTA upgrade via TargetIR APP, ballistic solutions via Ballistic APP.



Specifications

Product model	TU435 3.0	TU635 3.0	TU650 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°	11.8°×7.1°	8.2°×5.0°
FOV m@100m	13×8	21×12	14×9
Magnification	4.4x~17.6x	2.8x~22.4x	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	745/26.28	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, Quick-Release Scope Mount, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card		
Optional	Bluetooth Remote Control, Laser Rangefinder, 18650 Battery		

TU LRF 3.0 Series

Excellence through Clarity

Thermal Imaging Scope

Features

- 12μm thermal detector, NETD reaches 18mK.
- Hyper-light algorithm delivers ultra-detailed infrared imaging.
- Shutterless 3.0 design ensures smooth, uninterrupted visuals.
- Center-mounted focus wheel and zoom lever for ergonomic control.
- Pinpoint target locations with accuracy, up to 1500m.
- IP68-rated, shock resistance up to 6000J.
- OTA upgrade via TargetIR APP, ballistic solutions via Ballistic APP.



Specifications

Product model	TU435L 3.0	TU635L 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°	11.8°×7.1°	8.2°×5.0°
FOV m@100m	13×8	21×12	14×9
Magnification	4.4x~17.6x	2.8x~22.4x	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		
Eyeiece	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	785/27.69	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, Quick-Release Scope Mount, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card		
Optional	Bluetooth Remote Control, 18650 Battery		

TU Pro 3.0 Series

Engineered for Compact Precision

Thermal Imaging Scope

Features

- 12μm thermal detector, NETD reaches 18mK.
- Hyper-light algorithm delivers ultra-detailed infrared imaging.
- QHD 2560×2560 AMOLED display for clear, smooth visuals.
- Shutterless 3.0 design ensures smooth, uninterrupted visuals.
- Center-mounted focus wheel and zoom lever for ergonomic control.
- Built-in LRF lens design delivers precise targeting up to 1500m.
- IP68-rated, shock resistance up to 6000J.
- 14 hours of operation, and supports hot-swappable batteries.



Specifications

Product model	TU650P 3.0
Sensor	
Type	Uncooled VOx Infrared Detector, 8 to 14μm
Resolution	640×512@12μm
NETD	18mK
Frame rate	50 Hz
Lens	
Objective lens	50mm, F0.9
Field of view	8.8°×7.0°
FOV m@100m	15×12
Magnification	3.7x~29.6x
Detection range	2600m/2800yd
Focus	Manual
Display	
Display type	1.03" AMOLED 2560×2560
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia
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 ×2 Battery (Built-in) and 18650 ×1 Battery (External)
Operating time	14 hours
Environmental	
Operating temp.	-20°C to 50°C / -4°F to +122°F
Shock	6000J
Encapsulation	IP68
Physical	
Weight (g/oz)	923/32.56
Size (mm/in)	451×90×79/17.75×3.54×3.11
Standard	Device, Quick-Release Scope Mount, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth Remote Control, 18650 Battery

TU Muo 3.0 Series

Brilliance in Thermal & Optical

Multispectral Thermal Imaging Scope

Features

- Integrated thermal and night vision for all-day, all-weather targeting.
- 12μm detector + 18mK NETD + Hyper-light algorithm — Exceptional clarity.
- QHD 2560×2560 AMOLED display for clear, smooth visuals.
- Shutterless 3.0 design ensures smooth, uninterrupted visuals.
- Center-mounted focus wheel and zoom lever for ergonomic control.
- Pinpoint target locations with accuracy, up to 1500m.
- IP68-rated, shock resistance up to 6000J.



Specifications

Product model	TU650M 3.0	TU1250M 3.0
Sensor		
Type	Thermal: Uncooled VOx Infrared Detector, 8 to 14μm; Digital: CMOS	
Resolution	Thermal: 640×512@12μm (NETD 18mK); Digital: 1920×1080@2.9μm	Thermal: 1280×1024@12μm (NETD 18mK); Digital: 1920×1080@2.9μm
Frame rate	50 Hz	
Lens		
Objective lens	Thermal: 50mm, F1.0; Digital: 35mm, F4.0	
Field of view	Thermal: 8.8°×7.0°; Digital: 6.4°×5.1°	Thermal: 17.5°×14.0°; Digital: 6.4°×5.1°
FOV m@100m	Thermal: 15×12; Digital: 11×9	Thermal: 31×25; Digital: 11×9
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 2560×2560	
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 ×2 Battery (Built-in) and 18650 ×1 Battery (External)	
Operating time	14 hours	12 hours
Environmental		
Operating temp.	-20°C to 50°C / -4°F to +122°F	
Shock	6000J	
Encapsulation	IP68	
Physical		
Weight (g/oz)	1013/35.73	1090/38.45
Size (mm/in)	457×90×84/17.99×3.54×3.30	
Standard	Device, Quick-Release Scope Mount, Carry Bag, IR Illuminator, IR Illuminator Bracket, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card	
Optional	Bluetooth Remote Control, 18650 Battery	

DR Series

Full-Screen Vision, See Beyond the Dark

Digital Day & Night Vision Scope

Features

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



Specifications

Product model	DR30
Sensor	
Type	CMOS
Resolution	1920×1080@4μm
Frame rate	50Hz
Lens	
Objective lens	35mm, F1.2
Field of view	12.5°×7°
FOV m@100m	22×12
Magnification	2.175x~17.4x
Detection range	500m/550yd (850nm); 450m/500yd (940nm)
Focus	Manual
Display	
Display type	0.39" AMOLED 1920×1080
Color palettes	Day, Night, Low-light
Eyepiece	Eye relief: 48mm; Diopter -4 to +4; Zoom: 14x
Hardware	
IR illuminator	850nm/940nm (Alternative)
WIFI	2.4G
Interface	USB-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 (as per 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, Scope mount (Choose from two specifications), IR Illuminator, IR Illuminator Bracket, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth Remote Control, 18650 Battery

DU Series

The Ideal Nighttime Hunting Partner

Digital Day & Night Vision Scope

Features

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



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)
Focus	Manual
Display	
Display type	0.39" AMOLED 1920×1080
Color palettes	Day, Night, Low-light
Eyepiece	Eye relief: 48mm; Diopter -4 to +4; Zoom: 14x
Hardware	
IR illuminator	850nm/940nm (Alternative)
WIFI	2.4G
Interface	USB-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 (as per IEC60068-2-27)
Encapsulation	IP67
Physical	
Weight (g/oz)	980/34.57
Size (mm/in)	371×107×68/14.61×4.21×2.68
Standard	Device, Clip×2, IR Illuminator, IR Illuminator Bracket, Customized battery×2, Customized Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Micro HDMI to HDMI Cable, Quick Start Guide, Warranty Card
Optional	Bluetooth controller, Customized battery

Mobile Applications

See Smart, Shoot Sharp



TargetIR

TargetIR is a dedicated mobile app for infrared thermal imaging and night vision devices.



GET IT ON
Google Play

1. Supports real-time infrared image preview.
2. Enables remote control of all camera functions.
3. Offers video recording, local playback, and file management.
4. Support OTA firmware upgrade.



TargetIR Ballistics

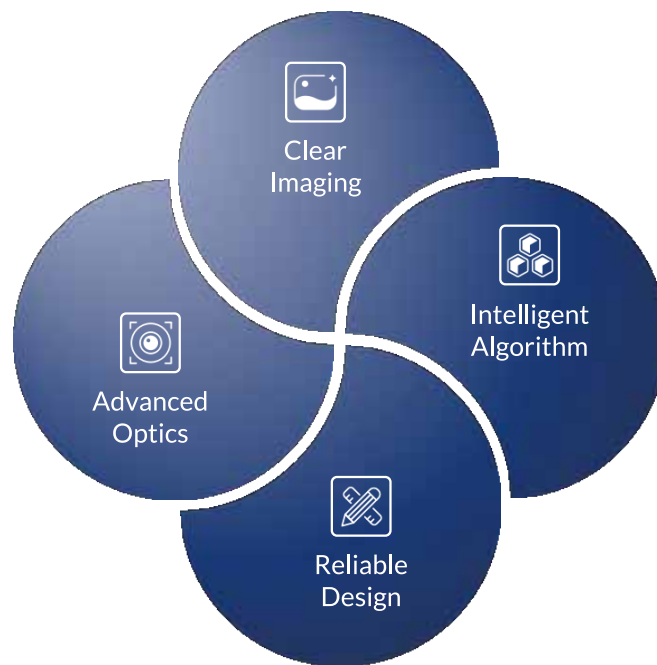
TargetIR Ballistics is a user-friendly ballistic calculation tool designed to help shooters achieve precise accuracy.



GET IT ON
Google Play

1. Set bullet and weather parameters.
2. Transmit data from the app to the device for ballistic calculations.
3. Employs a precise ballistic algorithm for accurate corrections.
4. Includes a comprehensive and regularly updated ammunition database.





Guide Intelligent
Manufacturing

Wuhan Guide Sensmart Tech Co., Ltd.

✉ gim-mkt@guideir.com

🌐 www.gim-thermal.com



Data Download

* 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.