TU Gen2 LRF Series Thermal Imaging Scope Redefine Hunting by Laser Ranging

1500m





Detailed Explanation of Upgrades

BI



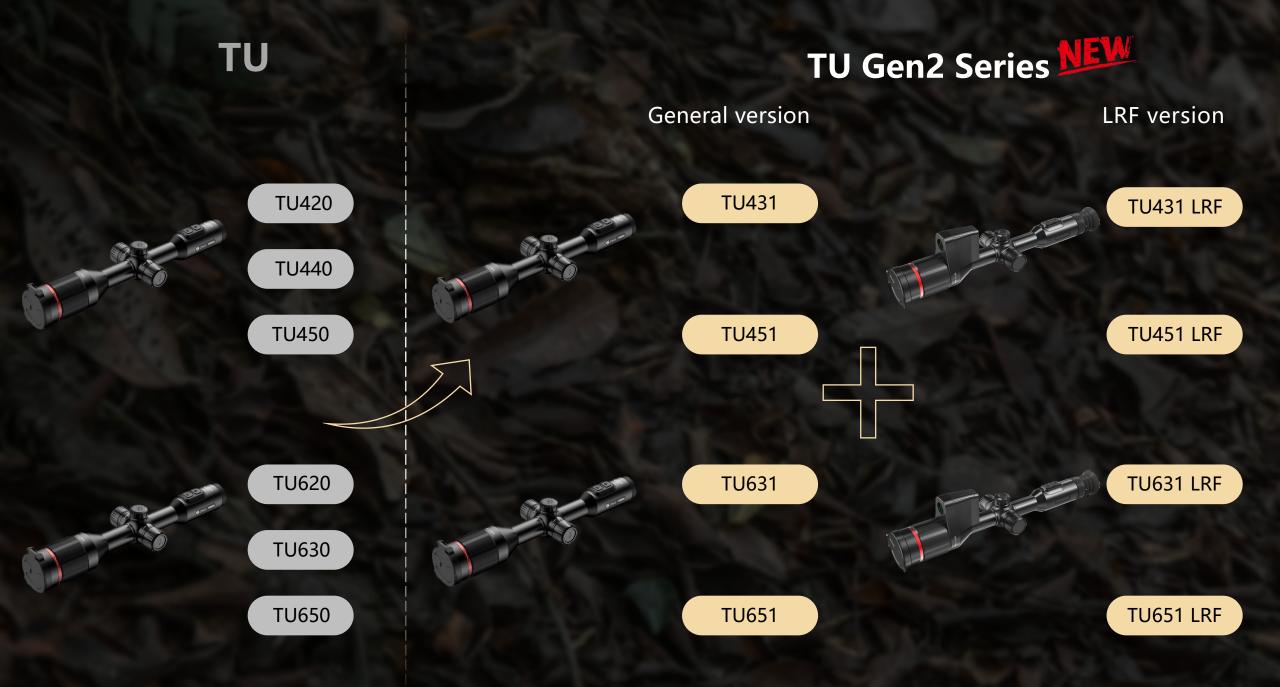
Technical Specification

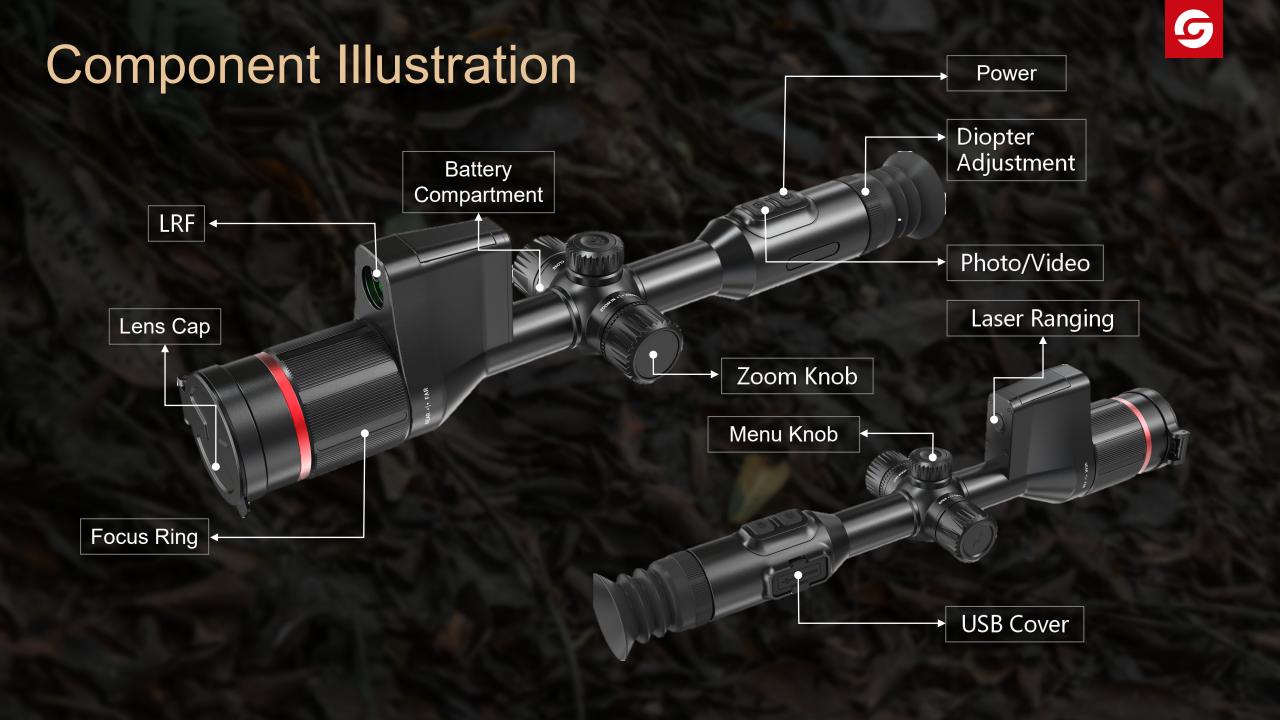


Applications

↓ TU Gen2

The TU Gen2 Series is equipped with a highsensitivity 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 userfriendly operation. Furthermore, the battery life has seen a substantial extension, resulting in a 20% increase in duration.







Product Profile



Detailed Explanation of Upgrades

AI



Technical Specification



Applications

What are the upgrades in the full TU Gen2 Series?

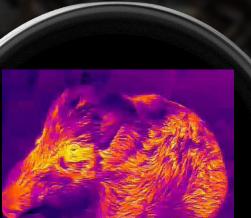
Upgraded Detectors

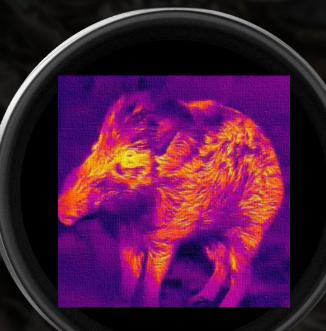
Th	erma	al Sensor			
40 64	0×30 0×48	0°120	lm	Aim farther and see better	· · · · · · · · · · · · · · · · · · ·
	TU Rang	e performances		TU Gen2 Range performances	_
Ŷ	35mm TU430	Detection Recognition	1000m 500m	35mm TU431 TU431LRFDetection1400m 700m	
	50mm TU450	Detection Recognition	■ 1400m 700m	50mm TU451 TU451LRFDetection2000mRecognition1000m	

Upgraded Display Image: State of the state o









TU

Higher resolution More delicate visuals

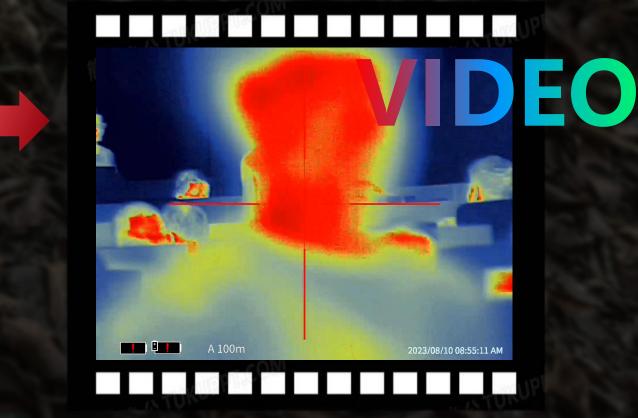
1024×768 0.39-inch AMOLED **1440×1080** 0.39-inch AMOLED



Screen Recording



0.39-inch AMOLED display provides with excellent viewing experience



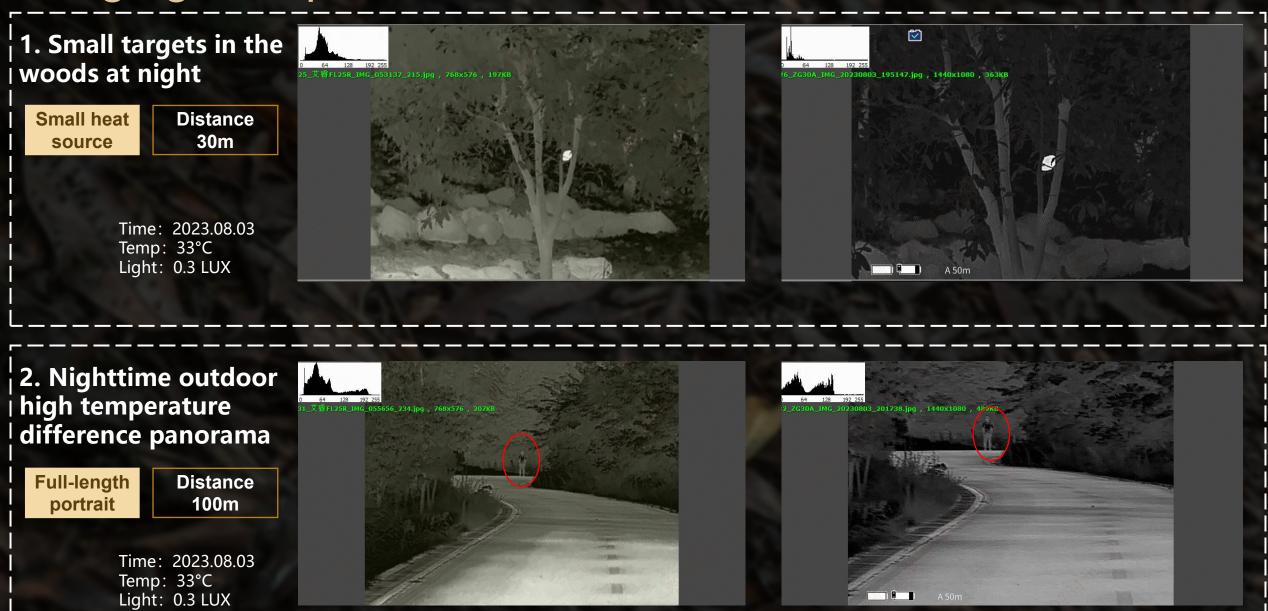
Screen recording to record the whole operation process for sharing

Optimized Algorithms

- Highlighting high-temperature targets
- Sharper image edges with more details

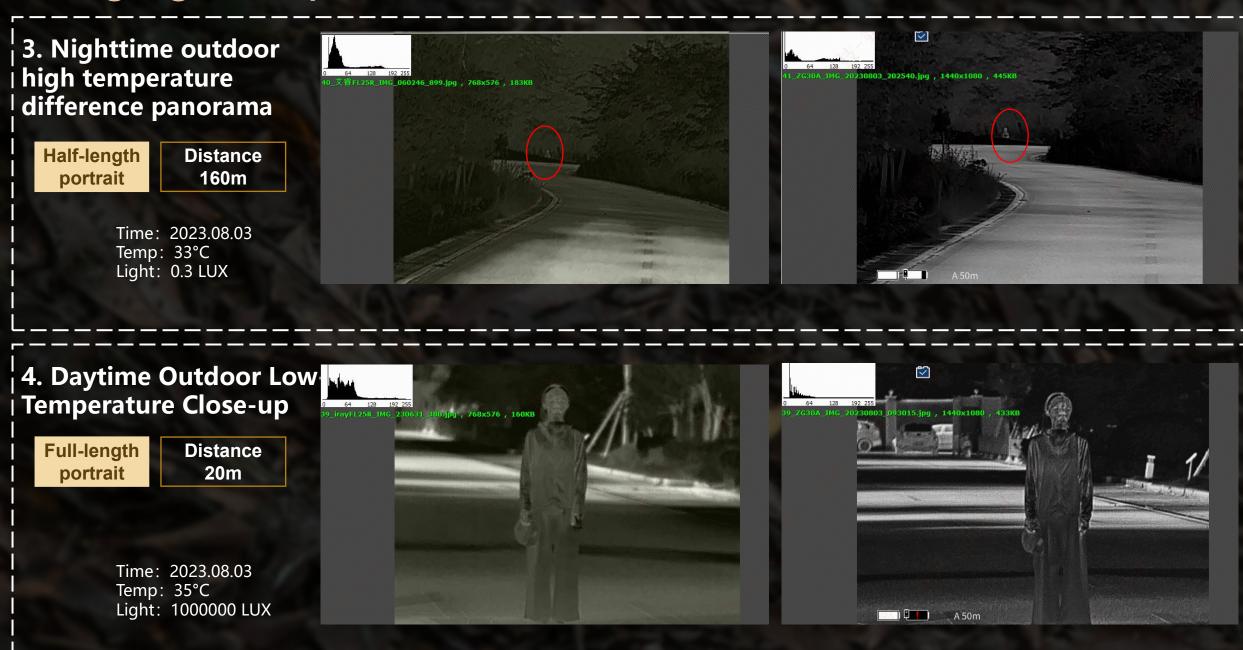
Imaging Comparison Competitor

TU2



Imaging Comparison Competitor

TU2



Safe and Durable



Battery life 20000 improved by

Compared to the first generation TU, the battery life has been increased from 10 hours to 12 hours.

*Battery Life = One Built-in + Two External (Support continuous power exchange)

2

1

Improved Experience

NEAR ≺|≻ FAR

TU Series

Improved Left-Hand Operation Experience

by swapping the positions of the zoom knob and the battery compartment

NEAR < |> FAR

TU Gen2 Series

Battery Compartment



Zoom Knob

Zoom Knob

Z	
ZOOM IN	Ê
ZOOM OUT	and

r		U.		
Statistics .	: > CLOSE			
l	OPEN <			

Battery Compartment

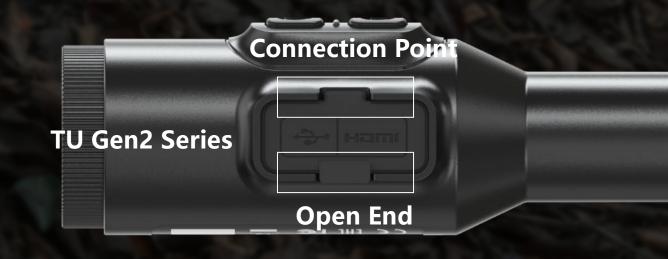
② Optimized USB Port Protective Cover Opening Direction

by swapping the positions of the open end and the connection point



Solve the problem that the USB cover is prone to drooping after impact







One-touch Freeze





This operation prevents the deviation caused by the artificial movement of the scope when adjusting the trajectory.

< Abo	out the device	5	Ē
	TU631 Connected		
Current Version			
Version NO.	١	/XX.XX.XX_YYY	Y.MM.DD
Latest Version			
Version NO. 🕑	Upgradeable to N	/XX.XX.XX_YYY	Y.MM.DD
File Size			200M
	Update	\supset	
*Please make sure	your device has enough po	ower and memo	ry

OTA Upgrade

Connect to the APP (Android or iOS) for OTA upgrade, quick and convenient



Target IR

TU Gen2 LRF Series Unique Feature





1500m Max.

• Detection range: 5~1000m(400)/ 1500m(640)

Laser wavelength: 905nm Class I

Built-in laser rangefinder

for the precise distance information of targets without calibration

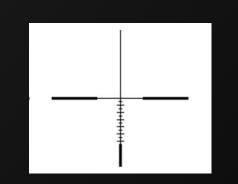
Summary of Upgrades

	TU Gen2 Series	TU Gen2 LRF Series
Hardware		
	Display	Display
		LRF
Structure ———		
	Impact Resistant Button Logic	Impact Resistant Button Logic
Overall Performance –		
	Upgrade Way	Upgrade Way
	Battery Life	Battery Life

Continued Advantages









30mm ringsMultiple color palettes10 kinds of reticlesIP67



Product Profile



Detailed Explanation of Upgrades

AI



Technical Specification



Applications

Technical Specification

Product model	TU431	TU451	TU631	TU651	TU431 LRF	TU451 LRF	TU631 LRF	TU651 LRF
Laser rangefinder			1	100	Max. measurin	g range: 1000m	Max. measurin	g range: 1500m
IR Detector	400×300, 12 μm		640×480, 12 μm		400×300, 12 μm		640×480, 12 μm	
Focal length	35 mm, F1.0	50 mm, F1.0	35 mm, F1.0	50 mm, F1.0	35 mm, F1.0	50 mm, F1.0	35 mm, F1.0	50 mm, F1.0
Field of angle	7.8°×5.9°	5.5°×4.1°	12.5°×9.4°	8.8°×6.6°	7.8°×5.9°	5.5°×4.1°	12.5°×9.4°	8.8°×6.6°
Optical zoom	2.65x	3.78x	1.65x	2.36x	2.65x	3.78x	1.65x	2.36x
Digital zoom	1x ~ 4x		1x ~ 8x		1x ~ 4x		1x ~ 8x	
Display	0.39" AMOLED, 1440×1080							
Eyepiece	Exit pupil distance ≥ 48 mm; Diopter ± 4; Zoom: 14x							
Detection range	1000 m 140		00 m 2000 m		1000 m	140	0 m	2000 m
Color palettes	White Hot, Black Hot, adjustable Red Hot , Green Hot, Iron Red, Blue Hot							
Recording function	Photo/Video							
Battery type	Single 18650 battery (built-in) and customized battery (external)							
Operating time	≥ 12 hours							
Memory capacity	128GB							
Operating temperature	-30°C to 50°C							
Shock	800 G at 1 ms half sine pulse (as per IEC60068-2-27)							
Weight	≤990g (without eye mask and battery) ≤1250 g (without eye mask and battery)					tery)		
Size	≤377×107×69 mm (without eye mask) ≤377×107×99 mm (without eye mask)					ask)		

Standard Configuration



Guide Thermal Scope

Packing Box



Device (with lens cover and eye mask)



1

5V2A adapter x1

Type C cable x1



Customized battery ×2

Charger ×1

Micro HDMI Cable x1



Clip×2 (30mm Diameter)



Quick Start Guide x1

Carry Bag x1

G



Product Profile



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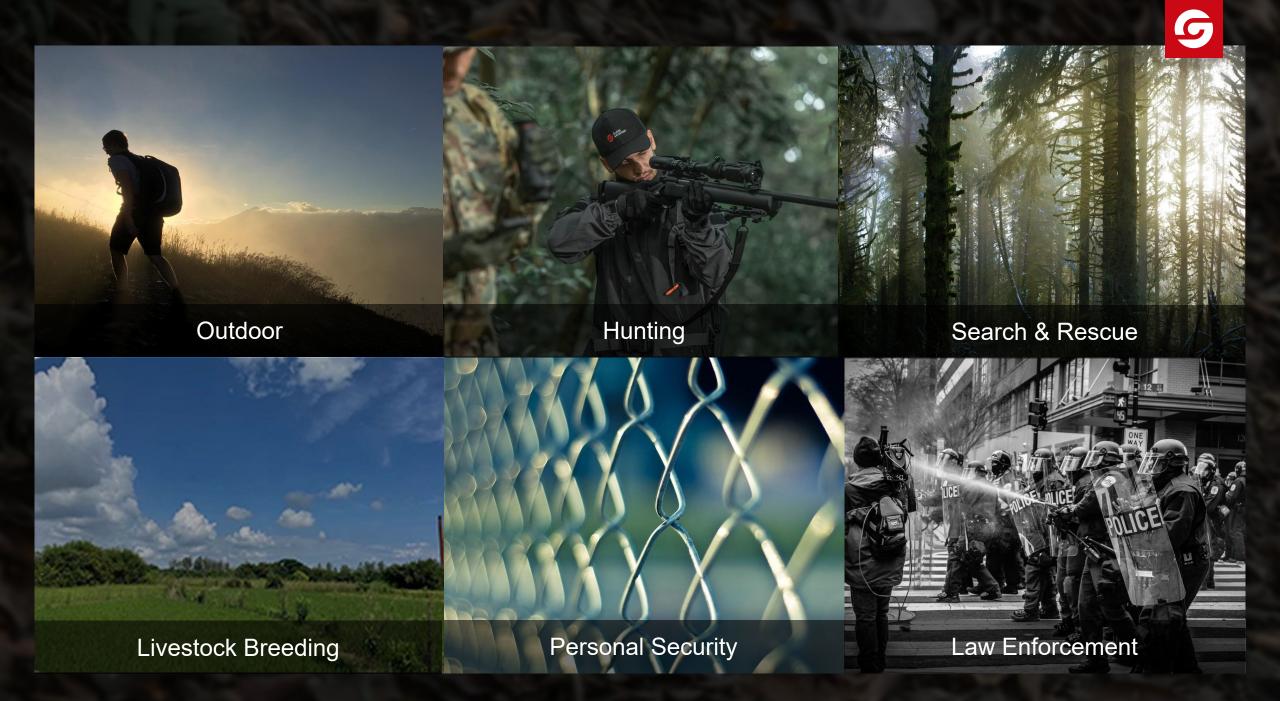
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Technical Specification



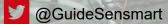
Applications



Guide Sensmart Tech Co., Ltd.

Loeffelholzstrasse 20, Haus 12 Eingang Nord, 90441 Nuremberg, Germany T +49 911 2170 7934 E enquiry@guide-infrared.com

@GuideSensmart



www.guideir.com