



## Triple Light, Total Insight

TL Leo Series

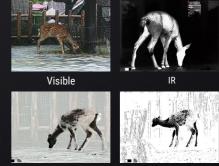
Multispectral Fusion Thermal Monocular

## 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 12µm high-end thermal sensor, 1920×1080 CMOS sensor and 1920×1080 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

- Integrated thermal and night vision for all-day and all-weather observation
- 12μm HD thermal sensor and 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 a more fast observation
- Removable single 18650 battery for 5 hours of battery life
- OTA firmware upgrade by connecting to the APP
- IP67 encapsulation, rugged and durable



Fusion 1

Fusion 2

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## **Specifications**

Product model	TL430	TL450	TL630	TL650
Thermal				
Туре		Uncooled VOx Infrare	ed Detector, 8 to 14 µm	
Resolution	400×300, 12µm 640×480, 12µm			
NETD	≤30mK			
Frame rate		50	)Hz	
Focal length	35mm, F1.0	50mm, F1.2	35mm, F1.0	50mm, F1.2
Field of view	7.8°×5.9°	5.5°×4.1°	12.4°×9.3°	8.7°×6.6°
Optical zoom	2.3x	3.3x	1.5x	2.0x
Digital zoom	1x, 2x, 4x 1x, 2x, 4x, 8x			4x, 8x
Focus	Manual			
Digital				
Туре		CN	NOS	
Resolution	1920×1080, 4µm			
Focal length	22mm, F1.5 17mm, F1.4			
Display				,
Display type		0.39" /	AMOLED	
Resolution	1920×1080			
Eyepiece	Exit pupil distance≥15 mm; Diopter: -4 to +4; Zoom: 13.8x			
Video output	Analog video			
Range Performance			9.1000	
Detection range	1000m	1400m	1000m	1400m
Hardware	1000111	1 Ioom	1000111	
Laser rangefinder		Max measuri	ng range: 600m	
Others	GPS, Compass, Gyroscope, Bluetooth			
Functions		01 0, 00111203, 05	10000pc, Diactootii	
Image modes	IR, Visible, Fusion 1, Fusion 2, Fusion 3			
Scene modes	IR: Enhanced, Highlight and Natural; Visible: Day, Night and Low-light			
Color palettes	IR: White Hot, Black Hot, Red Hot, Iron Red, Blue Hot			
Recording function	Photo/Video			
WIFI	2.4 G			
Supported Application				
Firmware OTA	Upgrade device firmware via app connection			
Others	PIP, Hot spot tracking, Target localization			
Power				
Battery type		Single replaces	hle 18650 hattery	
Operating time	Single, replaceable 18650 battery ≥ 5 hours			
Interface		2 0 1	ilouis	
USB		1100.	TypeC	
Mechanical interface	USB Type-C UNC ¼"-20 (Tripod mounting), Mechanical expansion interface			
System		one 14 -20 (mpou mounting),		
Language settings	Eng	lich Duccian Corman Franch Ital	lian Spanish, Japanese Korean P	olich
Memory capacity	English, Russian, German, French, Italian, Spanish, Japanese, Korean, Polish 64 GB			
Environmental		04		
			to 50 °C	
Operating temperature Storage temperature	-20 °C to 50 °C -40 °C to 60 °C			
Humidity	10 % to 95 % non-condensing			
Shock	30 G at 11 ms half sine pulse (as per IEC60068-2-27)			
Drop				
Encapsulation	I m IP67			
Certification	IP67, FCC, CE, RoHS, EAC, WEEE, un38.3, IEC 60825-1 Class 2			
		1707, FUU, UE, KUHS, EAU, WE	LL, UII30.3, IEC 00023-1 Class 2	
Physical	.500			
Weight	≤530g	≤567g	≤530g	≤567g
Size	170×70×90mm 190×70×90mm 180×70×90mm 190×70×90mm   A device, lens cover and lanyard, Wrist strap, Eye mask, Battery charger, single 18650 battery, USB Type-C cable, Quick use guide, Warranty card Warranty card			
Standard	A device, lens cover and langu			Type o ousie, quick doe guid