

## 4K Ultra Clarity

The advanced 4K Ultra CMOS sensor offers a 12 Megapixels resolution on a 1600×1200 0.5" OLED display, delivering an exceptional visual experience.



12MP CMOS

## EIS Vision Stability

EIS-enhanced high-magnification CMOS imaging prevents unnecessary movements, providing steady images and reducing glare in vision.



## Refocus-Free Transition

Switching seamlessly from infrared to daylight mode without re-focusing, it minimizes dizziness, ensuring a smooth, consistent, and comfortable viewing experience.



## 5-in-1 Integrated System

By integrating NETD <15mK, 4K Ultra CMOS sensor, dual-band IR illumination and precise laser rangefinder, it provides versatile imaging across diverse lighting conditions and challenging environments.



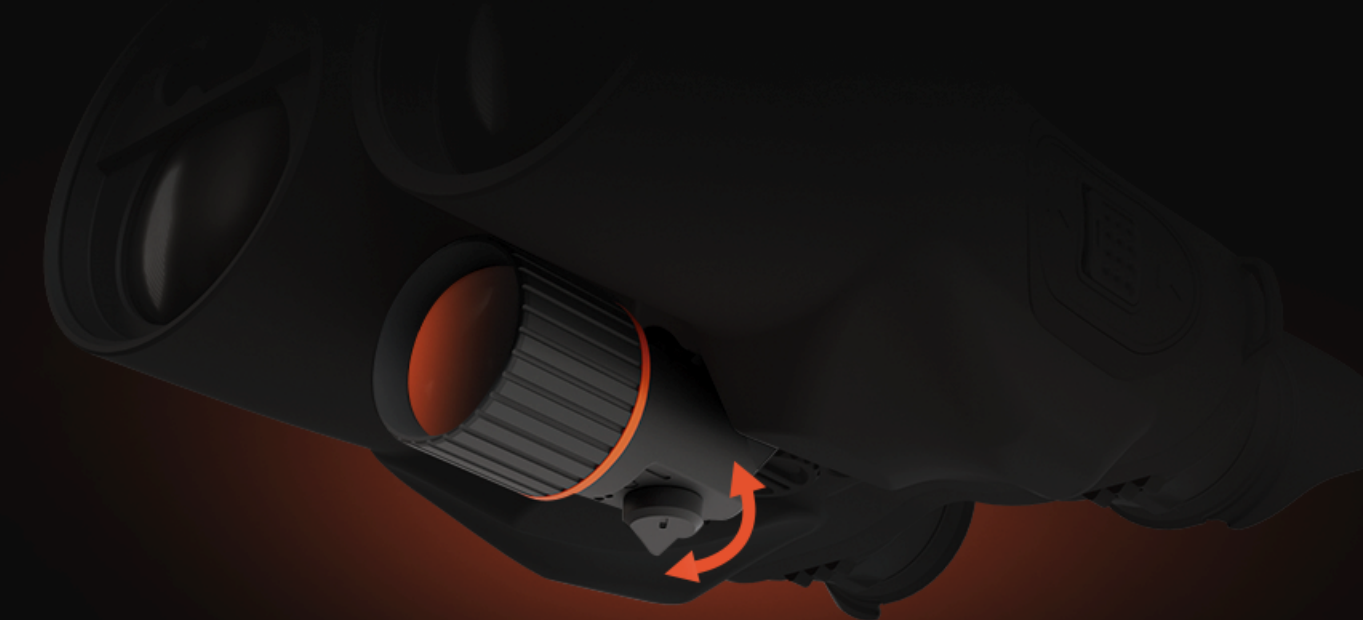
## Thermal Super Resolution

Combining base magnification with continuous digital zoom up to 14.8x, powered by AI-driven Thermal Super Resolution technology, it delivers ultra-detailed images with premium quality.



## Dual-band IR Switch

Featuring switchable 850nm and 940nm wavelengths, this IR illumination optimizes digital monochrome night vision for superior clarity across diverse scenarios.



## Consistently Clear & Stable Image

ThermTec AI Calibration reduces shutter frequency, minimizes image freezing, and ensures stable and consistent images over changing environments.



## Dynamic Power Efficiency

Two 18650 batteries deliver 6 hours of life, while a proximity sensor automatically turns off the screen when no human presence is detected, enhancing energy savings.



## Ergonomic Operation Design

The ergonomic waist and hand support design enable dual focus wheel control with one hand, allowing for easy switching between hands effortlessly.



# Specifications

Model	Ventus635L	Ventus650L
<b>Thermal Module</b>		
Resolution	640x512	
Pixel pitch	12μm	
NETD	15mK@300K	
Spectral range	8-14μm	
Objective lens	35mm/F0.9	50mm/F1.0
Field of view /m@100m	12.5° x 10° 21.9 x 17.6	8.8° x 7.0° 15.4 x 12.3
Frame rate	50Hz	
Magnification	2.6X - 10.4X(4X)	3.7X - 14.8X(4X)
Detection range	1800m	2600m
<b>Optical Module</b>		
Resolution	3536x3536, 2μm	
Field of view /m@100m	8.1° x 8.1° 14.14x14.14	
Objective lens	50mm/F1.4	
IR illuminator wavelength	850nm/940nm switchable	
Viewing range at night	850nm: 400m/940nm:350m	
Magnification	4X-16X(4X)	
<b>Image Display</b>		
Type	AMOLED	
Resolution	1600x1200	
Display size	0.5 inch	
Color palette	6	
EIS	Yes	
Eye relief	20mm	
Exit pupil	8mm	
Diopter	±5D	
Interpupillary adjustment range	60 mm to 72 mm	
Image mode	Forest/Rainy	
TSR algorithm	Yes	
<b>Laser Rangefinder</b>		
Safety class	Class 1	
Wavelength	905nm	
Range	1000m	
Accuracy	±1m	
<b>Function</b>		
Photo/Video playback	Yes	
Audio recording	Yes	
Azimuth	Yes	
Digital magnetic compass	Yes	
Hotspot	Yes	
Language	Multiple-language	
Storage	64GB EMMC	
PIP	Yes	
Heat track	Yes	
Local album	Yes	
OSD recording	Yes	
Burn prevention	Yes	
<b>Power Supply</b>		
Battery type	Replaceable li-ion battery (18650x2)	
Type-C	Data transfer	
Battery life	6h	
<b>Environment</b>		
Working temperature	-20°C~+50°C	
Protection level	IP67	
Weight, g	825	833
Size, mm	164(L)x127.6(W)x73(H)	
Mounting adapter	1/4-20-UNC	



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**ThermTec**

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Featuring a fully integrated vision system with 15mK superior sensitivity, advanced 4K Ultra imaging, switchable 850nm/940nm IR illumination, and precise laser rangefinding, the Ventus delivers exceptional versatility and intuitive ergonomics, redefining your outdoor adventures.

## Taking You to Explore the Nature

-  1600×1200 0.5" AMOLED Display
-  Long Detection Range up to 2600m
-  Integrated LRF Design
-  850nm/940nm IR Illumination
-  6H Durable Operation
-  Service & Support All-in-one App

*Night to Light, Details in Sight*

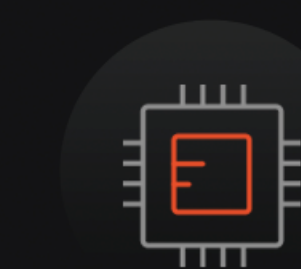
**ThermTec**

# VENTUS

Multi-Spectrum Binocular



**5-in-1**  
Integrated System



NETD<15mK  
Precision



Thermal  
Super Resolution



EIS  
Vision Stability