

ThermTec

VENTUS Series

Multi-Spectrum Binocular Ventus 650L

Technical Specifications



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VENTUS 650L

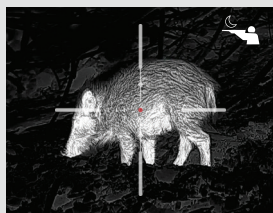
Key Features

-  5-in-1 integrated vision system
-  640x512 thermal resolution with NETD < 15mK
-  Switchable 850nm and 940nm IR for optimized night vision
-  4K UHD resolution of 3536x3536 on a 1600x1200 0.5" AMOLED display
-  EIS-enhanced CMOS imaging stability under high magnification
-  Switch from infrared to daylight mode without the need of re-focusing
-  Thermal Super Resolution technology for ultra-detailed thermal images
-  ThermTec AI Calibration for consistently stable and clear images
-  Ergonomic design for dual focus wheel control with one hand
-  Anti-slip, rubber-coated frame with widely adjustable eyepieces
-  A proximity sensor enables automatic screen-off for energy savings
-  Two replaceable batteries provide 6-hour durability
-  Integrated LRF precision up to 1000m
-  Long detection range up to 2600m
-  Service & Support all-in-one App

Applications



Day&Night observation



Night hunting



Rescue operation



Hiking & traveling

Specifications

Model	Ventus 650L
Thermal Module	
Resolution	640×512
Pixel pitch	12μm
NETD	< 15mK@300K
Spectral range	8-14μm
Objective lens	50mm/F1.0
Field of View/m@100m	8.8°× 7.0° / 15.4×12.3
Frame rate	50Hz
Magnification	3.7X-14.8X(4X)
Detection range	2600m
Optical Module	
Resolution	3536×3536, 2μm
Field of view/m@100m	8.1°×8.1° / 14.14×14.14
Objective lens	50mm/F1.4
IR illuminator wavelength	850nm/940nm switchable
Viewing range at night	850nm: 400m/940nm:350m
Magnification	4X-16X(4X)
Image Display	
Type	AMOLED
Resolution	1600×1200
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
Laser Rangefinder	
Safety class	Class 1
Wavelength	905nm
Range	1000m
Accuracy	±1m
Function	
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
Power Supply	
Internal battery	Replaceable Li-ion battery (18650*2)
Type-C power supply	Data transfer
Battery life	6h
Environment	
Working temperature	-20°C~+50°C
Protection level	IP67
Weight, g	833
Size, mm	164(L)×127.6(W)×73(H)
Mounting adapter	1/4-20-UNC

Accessories



Content	Quantity
Binocular	1
User manual	1
18650 battery	4
USB cable	1
Lens cloth	1
Charger	1
Service and support card	1
Bag	1
Screw driver	1
Tripod connector	1
Lens cover	2

Dimension

Unit: mm

