

ThermTec

VENTUS Series

Multi-Spectrum Binocular Ventus 635L

Technical Specifications



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VENTUS 635L

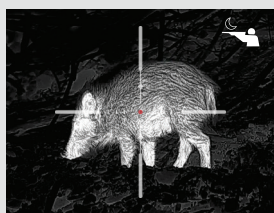
Key Features

-  5-in-1 integrated vision system
-  640×512 thermal resolution with NETD < 15mK
-  Switchable 850nm and 940nm IR for optimized night vision
-  4K UHD resolution of 3536×3536 on a 1600×1200 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 1800m
-  Service & Support all-in-one App

Applications



Day&Night observation



Night hunting



Rescue operation

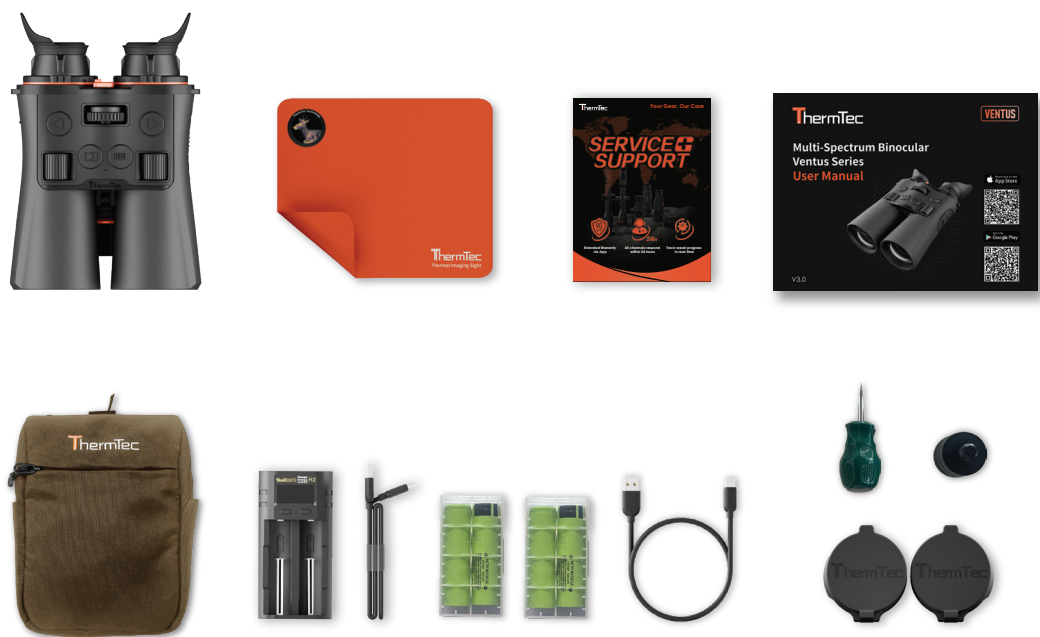


Hiking & traveling

Specifications

Model		Ventus 635L
Thermal Module		
Resolution		640×512
Pixel pitch		12μm
NETD		< 15mK@300K
Spectral range		8-14μm
Objective lens		35mm/F0.9
Field of View/m@100m		12.5°×10° / 21.9×17.6
Frame rate		50Hz
Magnification		2.6X-10.4X(4X)
Detection range		1800m
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℃-+50℃
Protection level		IP67
Weight, g		825
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

