

ThermTec

VENTUS Series

Multi-Spectrum Binocular Ventus 635L

Technical Specifications



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ThermTec Technology Co., Ltd.
Email: info@thermteytec.com
Website: <https://www.thermteytec.com>

VENTUS 635L

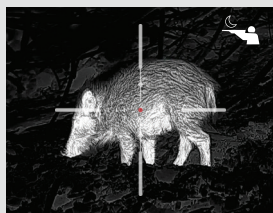
Key Features

-  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 | 640x512 |
| Pixel pitch | 12μm |
| NETD | < 15mK@300K |
| Spectral range | 8-14μm |
| Objective lens | 35mm/F0.9 |
| Field of View/m@100m | 12.5°x10° / 21.9x17.6 |
| Frame rate | 50Hz |
| Magnification | 2.6X-10.4X(4X) |
| Detection range | 1800m |
| Optical Module | |
| Resolution | 3536x3536, 2μm |
| Field of view/m@100m | 8.1°x8.1° / 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) |
| Image Display | |
| 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 |
| 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 | 825 |
| Size, mm | 164(L)x127.6(W)x73(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

