

# SM3819U/3825U/3835U Infrared Thermal Imager Technology Data



Suzhou Grand Sensor Inc.

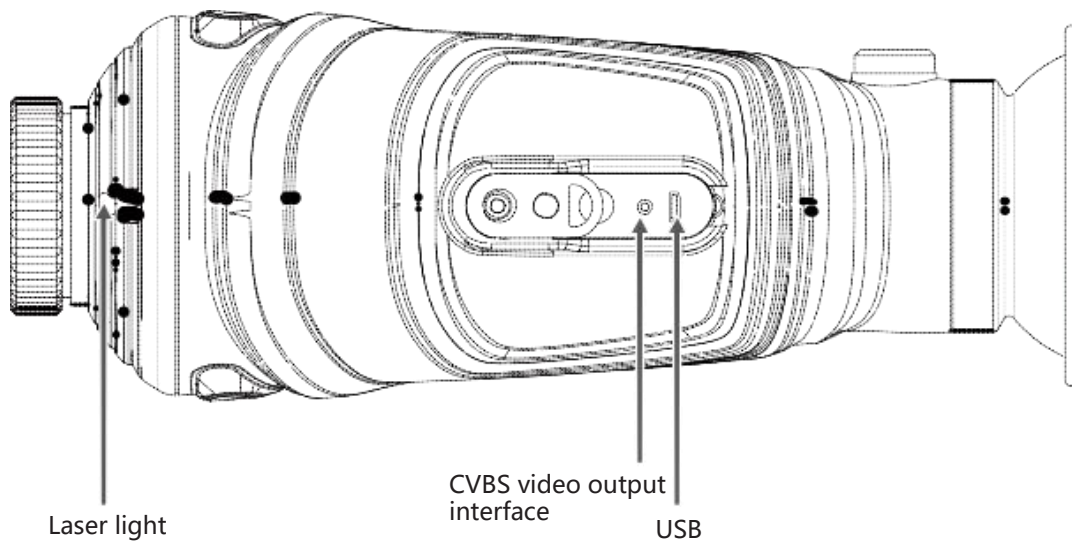
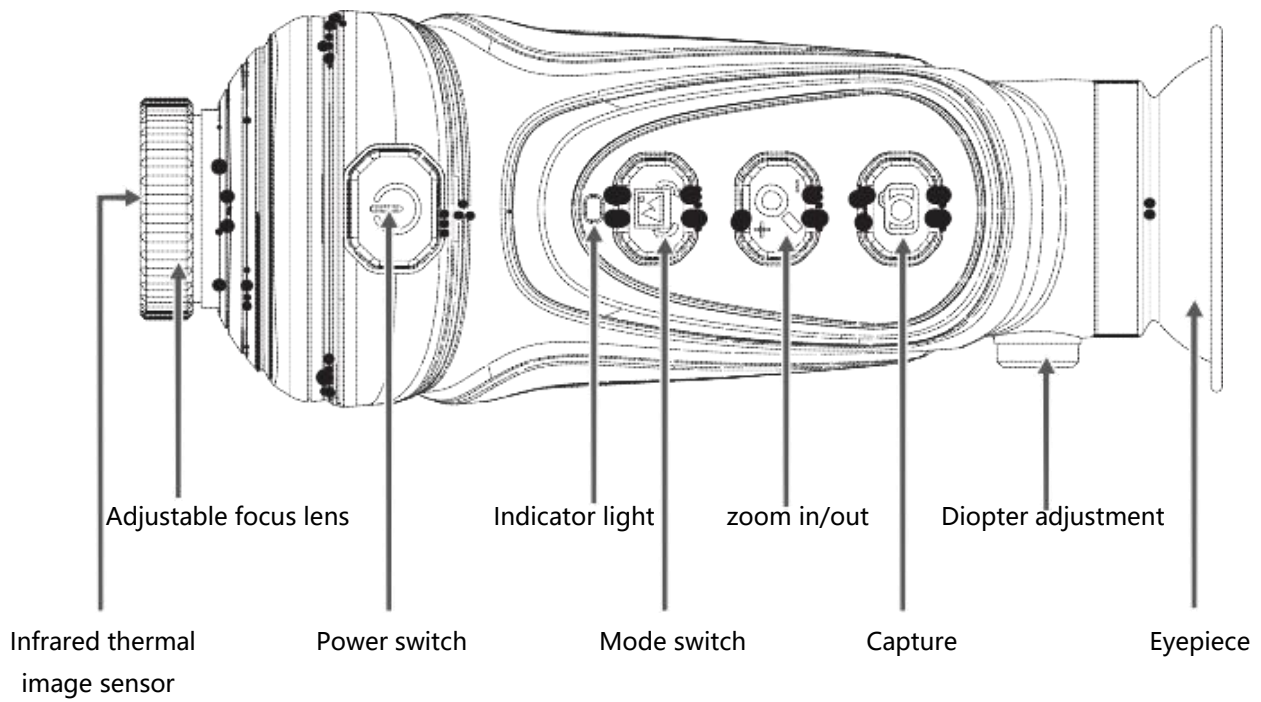
## Introduction

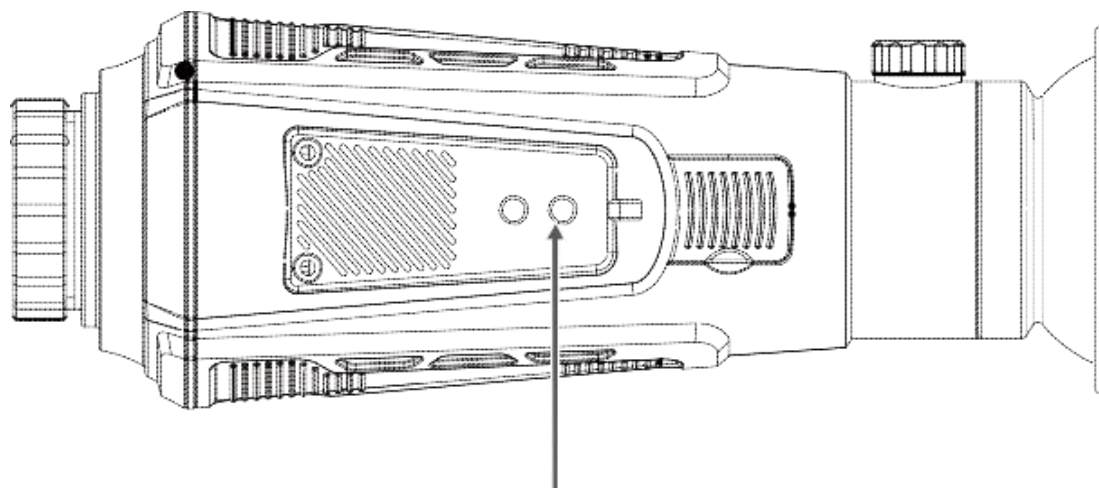
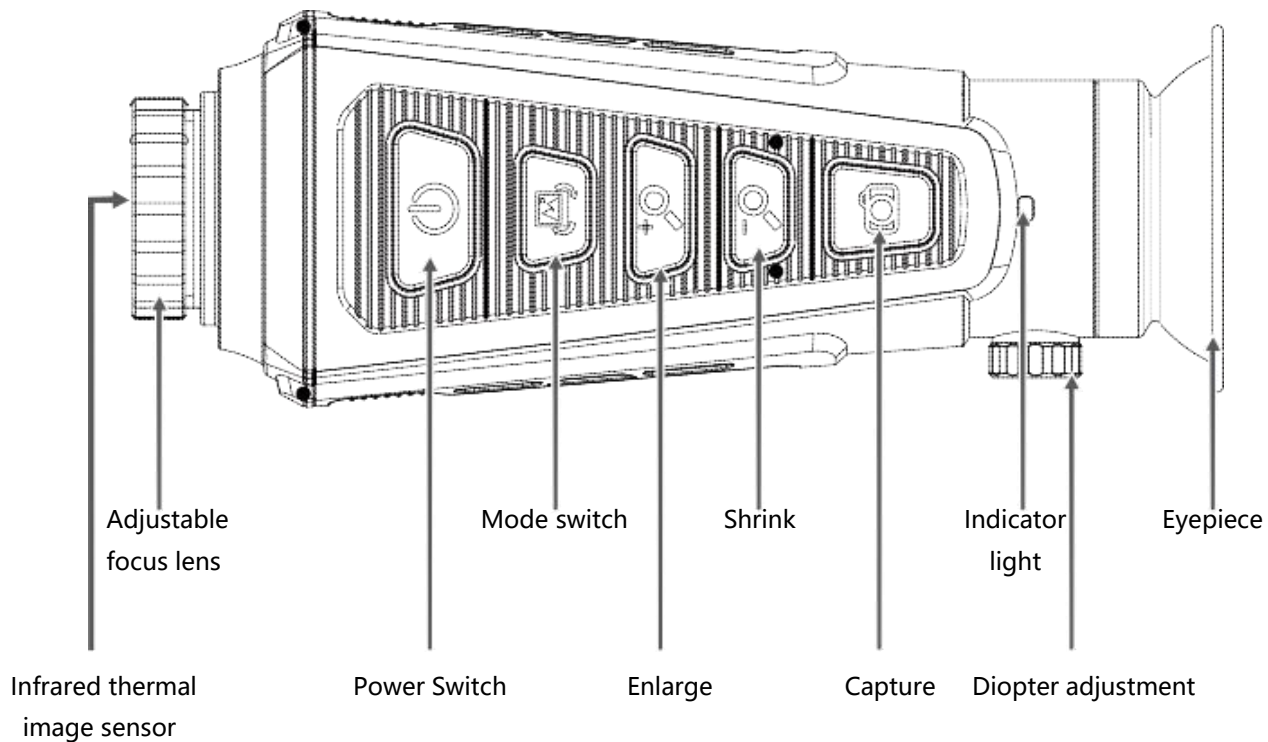
This product is an outdoor thermal imaging telescope, with an advanced uncooled focal plane infrared detector and high-quality optical lens as the core, combined with a convenient and quick operating system, a compact design, and a fully functional expansion spare part. Long battery life, sturdy and durable, and suitable for various environments. It has created an ideal temperature measurement tool for users with "clear imaging, accurate measurement, simple operation and easy to carry". It is the best tool for on-site inspection, preventive maintenance and other applications. Best choice. This product is used in wild animal observation, search and rescue, police law enforcement investigation, night patrol, outdoor sports, personal security, etc. This product has a camera function, which can be connected to a computer via USB to browse the photos taken, which is convenient for multiple people to observe at the same time, creating possibilities for more applications.

## Data sheet

Probe Type	Uncooled focal plane
Resolution Ratio	384×288 infrared focal plane
LCD Resolution	720×540
Focus Length	19mm, 25mm, 35mm
Eyepiece	Single eyepiece display (the dioptic compensation is adjustable)
Field Angle	19.5°×14.7°, 14.9°×11.2°, 10.7°×8°
Digital Zoom	2X, 4X
Wavelength Coverage	8μm-14μm
Frame Rate of Thermal Images	50Hz
Color Palette	Rainbow/ Hot metal/ White heat/ Black heat
Focusing Mode	Adjustable
Image Storage	BMP
Battery	Built-in rechargeable batteries
USB	Micro USB
Operating Time	≥4 hours
Operating Temperature	0°C-45°C
Storage Temperature	-20°C-60°C
Weight	400g (Optional upgraded version is 541.2g, with laser light)
Size	186mm x 69mm x 68mm (Optional upgraded version:187.3mm x 68mm x 68.2mm)

## Structure





CVBS video output interface, USB interface  
 Note: Only upgrade version have laser lights