

AS600

Flagship Thermal Camera

Equipped with a new-generation 12μm detector with a thermal sensitivity as low as 25mK, AS600 can present more delicate and clearer thermal images. Based on Android OS and integrated intelligent hardware, the device enables various professional and intelligent functions such as trend analysis, variable diaphragm lens, 25 points, lines, and areas, image freezing, intelligent electrical image stabilization (EIS), 5.5-inch touch screen.



Product Highlights

Clear Thermal Images, Precise Temperature Measurement

- Equipped with a 12μm VOX detector, resolution of 640×512, supporting super-resolution up to 1280×1024.
- Capable of distinguishing the temperature difference of 0.025°C, with high measurement accuracy and more delicate thermal images.



Various Lenses and Fast Focusing

- Standard 25° lens, with optional wide-angle, long-focus, ultra-long-focus, and macro lenses, flexible for diverse scenarios.



Functional Upgrade to Improve Efficiency

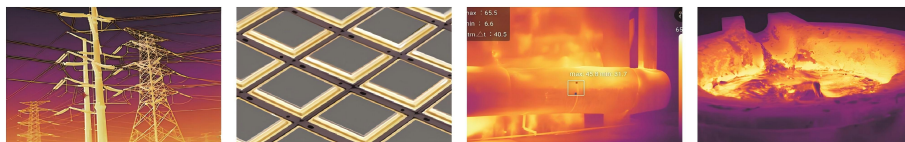
- Android operating system, more convenient to operate.
- Support intelligent image stabilization, making temperature measurement images more stable.
- Support laser rangefinding and area measurement.



Intelligent Analysis, Efficient Temperature Measurement

- Support up to 25 points/lines/areas to analyze more temperature details in the screen.
- Support customized isotherms to highlight temperature segments or areas that need more attention.
- Support intelligent routine inspection, enabling import and editing of general task packages, etc.

Applications



Electric Routine Inspection

High-End Scientific Research

Chemical Routine Inspection

High-Temperature Material Testing

Specifications

Thermal Imaging	
Detector Type	12μm uncooled infrared detector
Infrared Resolution	640×512
Super Resolution	1280×1024
Spectral Band	7.5-14μm
Thermal Sensitivity (NETD)	<25mK (25°C, F1.0)
Frame Rate	25Hz
FOV	Standard lens: 17.7mm; super telephoto lens: 60.9mm; telephoto lens: 31.5mm; wide-angle lens: 9.5mm; macro lens (0.2X): 13mm; super macro lens (0.4X): 14.8mm.
Spatial Resolution (IFOV)	Standard lens: 25°×20°; super telephoto lens: 7°×5.6°; telephoto lens: 14°×11.2°; wide-angle lens: 45°×36°. Standard lens: 0.68mrad; super telephoto lens: 0.2mrad; telephoto lens: 0.38mrad; wide-angle lens: 1.26mrad; Macro lens: One pixel corresponds to 60μm; super macro lens: One pixel corresponds to 30μm.
Focus Mode	Manual focus, one-button center focus, automatic center focus, single-touch automatic focus, laser-assisted focus, electric micro focus
Minimum Imaging Distance	Standard lens: 0.4m; super telephoto lens: 4m; telephoto lens: 3m; wide-angle lens: 0.2m; macro lens: 39mm; super macro lens: 19mm
Measurement Range	-20°C~+150°C, 100°C~650°C, optional: 400°C~+1500°C
Measurement Accuracy	±2°C or ±2% of readings, whichever is greater.
Image Display	
Display	5.5-inch LCD touch screen, resolution 1920×1080
Visible Light Camera	13 megapixels
Digital Zoom	1X~10X
Palettes	19 options
Image Mode	Infrared, visible light, PIP, dual-spectrum fusion
Temperature Width Stretch	Support
Measurement and Analysis	
Analysis Functions on the Device	Support up to 25 movable points, lines, frames, circles and polygons, and up to 5 preset modes
Laser Rangefinding	Support
Area Measurement	Support
Hygrothermograph	Support
Positioning	Support
Temperature Difference Analysis	Support
Trend Analysis	Support temperature trend recording and analysis
Image Freezing	Support
Analysis Report	PDF format. Support template editing and importing on the PC client
Supporting Software	PC (Infrared analysis software) & Mobile Device (iOS/Android app)
Image Storage	
Storage Medium	Standard 64GB Micro SD. Support SD, SDHC, and SDXC, up to 2TB
Text Notes	Support
Voice Notes	Support
Video Functions	
Radiate Infrared Video Recording	Support compressed full radiation video recording (.irv), up to 25Hz video recording.
Non-radiate Infrared or Visible Light Video Recording	Standard MP4 video recording
Radiate Infrared Video Stream Transmission	TYPE-C/WLAN connection to PC, for real-time transmission of radiation infrared video streams
Non-radiate Infrared Video Stream Transmission	RTSP H.264
Video Resolution	1920x1080
System Functions	
Intelligent Image Stabilization	Support
Intelligent Panoramic Stitching	Support
Intelligent Routine Inspection	Supported. General task package import and editing, standard and automatic naming of images
Non-radiate Infrared Video Stream Transmission	Support
Dual-Spectrum Video Recording	Simultaneous infrared video and visible light video recording, in MP4 format.
Communication Protocol	Wi-Fi, Bluetooth, USB
Voice Control	Voice assistant, quick command recognition
Flashlight	Support
Others	
Microphone/Speaker	Support
Battery	9000mAh lithium-ion battery, field-replaceable, fast charging
Charging Mode	USB Type-C or desktop charger
Battery Life	Continuous operating time ≥ 3 hours (depending on the actual environment and service conditions)
External Interface	USB3.0 Type-C, SD card, SIM card, Mini HDMI
Tripod Socket	UNC 1/4-20 interface for tripod
Operating Temperature	-15°C~+50°C
Operating Humidity	10%~95% (non-condensing)
Storage Temperature	-40°C~+70°C
IP Grade	IP54
Shock and Vibration	Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)
Weight and Dimensions	About 1.3kg (with battery), 278×116×113mm
Authentication	CE/RoHS/CMA, etc.
Packing List	Thermal camera×1, manual, calibration certificate, quick operation guide, data download card, certificate of qualification, multi-country adapter, USB data cable×1, lithium-ion battery×3, portable bag, charging cradle×1, HDMI cable×1, hand strap, backpack strap, SD card, charging stand, standard lens.