



The AG600U is equipped with a self-developed high thermal sensitivity 640x512 infrared thermal imaging detector. Based on intelligent and precise temperature measurement algorithms, HD image algorithms, and cloud services, it strives to be a professional infrared thermal imaging tool with HD images, a large-screen display, and accurate temperature measurement for applications such as electrical maintenance and circuit design.



Software to perform analytics & to generate reports

Technical Specifications

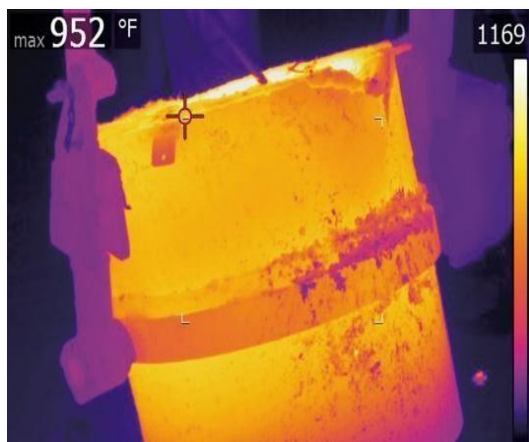
IR Resolution	640 x 512 Pixels
Image Sensor	Uncooled infrared detector
Pixel Pitch	12μm - 17μm
Super Resolution	1280×1024 pixels
Spectral Band	7.5-14μm
Thermal sensitivity (NETD)	<35mK (25°C)
Temperature Measurement Range	-20°C to +650°C
Image Refresh Rate	30 Hz
Optics (FOV)	Standard Lens : 25°×19°; Telephoto Lens : 13° x 10°; Wide-angle lens : 45°×36°.
Identification Lens	Automatic
IFOV	0.68mrad with Standard lens; 0.35mrad with Telephoto lens; 1.26mrad with Wide-angle lens.
Focus	Manual focus, one-button center focus, Automatic center focus, single-touch automatic focus, laser-assisted focus, electric micro focus.
Accuracy	±2°C or ± 2% whichever is greater

Image Display

Digital Zoom	1-10x Continuously
Display	5-inch OLED touch screen, resolution 1280×720
Visual Camera	13 mega Pixels color Image
Image Control	Auto, Level & span
Color Palettes	19 Color Palettes like Iron, White Hot, Black Hot, Lava, Rainbow, Ironbow
Image Mode	Infrared, visible light, (Picture in Picture)PIP, dual-spectrum fusion

Measurement and Analysis

Measurement	Support up to 25 points/lines/areas to analyze more temperature details in the screen with Center spot, Hot & Cold spot, no measurement & User defined Preset up to 5
Color/Measurement Alarm Function	Audio & Visual alarm on Above/Interval/Below User defined Threshold
Area Measurement	Support
Laser Pointer	Available
Voice Annotation	Yes. 60s of voice annotations for every image
Text Annotation	Simplified English/Numbers
Emissivity	User defined from 0.01 to 1
Analysis Report	PDF format. Support editing and template importing on the PC client.
Supporting Software	PC (Infrared Analysis Software), Mobile Device (iOS/Android APP) API & SDK



Video Functions

Radiometric Infrared Video Recording	Support compressed full radiation video recording (.irv), up to 30Hz video recording.
Radiometric Infrared Video Streaming	TYPE-C/WLAN connection to PC, for real-time transmission of radiation infrared video streams

System Functions

Communication Protocol	Wi-Fi, Bluetooth, USB
Voice Control	Voice assistant, quick command recognition
Flashlight	Support

Image Storage

Storage Medium	Standard 64GB upto 7000 images, MicroSD. Support SD,
GPS	GPS location information is automatically added to each static image captured outdoors

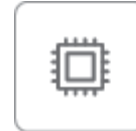
Others

Microphone/Speaker	Support
Languages	15+ Languages
Site Recognition	Available
Battery	10,000mAh lithium-ion battery, field-replaceable, support fast charging
Charging Mode	USB Type-C or desktop charger
Battery Life	Continuous operating time ≥ 6 hours (depending on the actual environment and service conditions)
Interface	USB3.0 Type-C, SD card, SIM card, Mini HDMI
Connectivity	With Android Application with Report Generation
Operating Temperature	-20°C~+55°C
Operating Humidity	10%~95% (non-condensing)
Storage Temperature	-40°C~+70°C
Ingress Protection Rating	IP54
Shock and Vibration	Shock: 25g (IEC 60068-2-27); Vibration: 2.5g (IEC60068-2-6)
Weight and Dimensions	<1.3kgg (with battery), 144×129×307mm
Authentication	CE/RoHS/CMA, etc.
Packing List	Thermal camera×1, standard lens, telephoto lens, lithium-ion battery×2, charging stand, charger (with plug for use in multiple countries), charging cable, SD card 64G, Software, Type-C cable, calibration certificate, hand strap (with buckle), lens cap, Hard Transport Case

Product Highlights

Powerful Detector, Clear Imaging

- Equipped with a 640 x 512 self-developed uncooled infrared detector.
- -20°C~+650°C wide measurement range for monitoring more temperature targets.



Fully-Functional Software

- Support multiple image modes + multiple palettes to meet the needs of temperature measurement under different requirements.
- The PC software supports real-time image analysis.



Hardcore Configuration

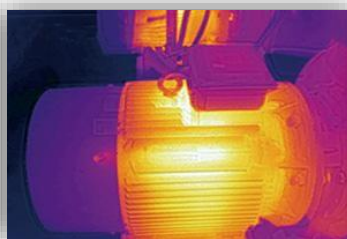
- Equipped with a 5-inch touch screen, supporting center point, hot and cold spot tracking and temperature display.
- IP54, 2m drop protection
- Standard configuration of 2 quick-removal batteries, with a battery life of up to 6h.



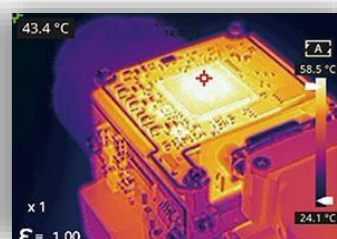
Applications



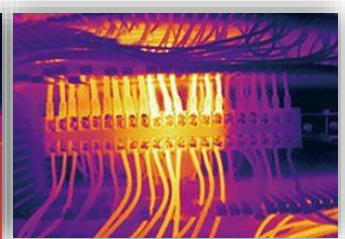
HVAC Maintenance



Equipment Maintenance



Circuit Design



Power Maintenance