BH480

Flagship Thermal Camera

Equipped with a new-generation 12μm detector with a thermal sensitivity as low as ＜40mK, BH480 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 640X512, supporting super-resolution up to 1280X1024.
- Capable of distinguishing the temperature difference if 0.025°C, with high measurement accuracy and more delicate thermal images.

Various Lenses and Fast Focusing

- Standard 25° lens, telephoto 8° lens and with optical wide-angle, long-focus, ultra-long-focus, and macro lenses flexible for diverse scenarios.

Functional Upgrade to Improve Efficiency

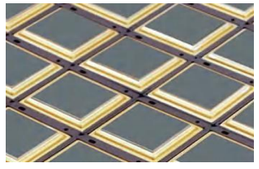
- Android operating system, more in line with users habits and more convenient to operate.
- Support intelligent image stabilization, making temperature measurement image more stable.
- Support laser range-finding and area measurement.

Intelligent Analysis, Efficient Temperature Measurement

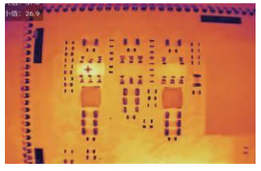
- Support up to 25 points/lines/areas to analyze more temperature details in the screen.
- Support customized isotherms to highlight temperature segments or areas that need more attention.
- Support intelligent routine inspection, enabling import and editing of general task packages, etc.

APPLICATION:

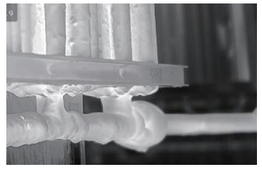
Electric Routine Inspection



Scientific Research



Microelectronics



Nondestructive Testing

Specifications:

Thermal Imaging	
Detector Type	12μm uncooled infrared detector
Infrared Resolution	640 X 512
Super Resolution	1280 X 1024
Spectral Band	7.5~14μm
Thermal Sensitivity (NETD)	＜40mK @ 30°C
Frame Rate	30Hz
Minimum Focus Distance	Standard lens: 30cm, Telephoto lens: 2m
FOV	Standard lens: 25°×20°; telephoto lens: 8°×5.6°; wide-angle lens: 45°×36°
Pixel Pitch	17μm.
Focus Mode	Manual mode, one-button center focus, automatic center focus, single-touch automatic focus, laser-assisted focus, electric micro focus
IFOV	Standard lens: 0.70 mrad/pixel; telephoto lens: 0.35 mrad/pixel
Measurement Range	-20°C~+150°C, 100°C~650°C; optional: 400°C~1500°C
Measurement Accuracy	±2°C or ±2% of the reading or better
Image Visualization	
Display	5.5-inch LCD touch screen, resolution 1920X1080
Display Type	Touch Screen
Digital Zoom	1x-10x
Palettes	19 Palettes
Image Mode	Infrared, visible light, PIP, dual-spectrum fusion
Temperature Width Stretch	Support
Measurement and Analysis	
Analysis Functions on the Device	Standard up to 25 movable points, lines, frames, circles and polygons, and up to 5 preset modes
Laser Range finding	Support
Area Measurement	Support
Positioning	Support
Temperature Difference Analysis	Support
Baseline Temperature	Support
Image Freezing	Support
Emissivity Adjustment	Automatic temperature correction and on-screen guidance, adjustable from 0.01 to 1.0
Analysis Report	PDF format. Support editing and template importing on the PC client.
Supporting Software	PC (Infrared Analysis Software) & Mobile Device (iOS/Android APP)
Image Storage	
Storage Medium	Standard 16GB Micro SD
Text Notes	Support
Voice Notes	Support
GPS	Built in GPS
Video Functions	
Radiate Infrared Video Recording	Support
Non-radiate Infrared or Visible Light Video Recording	Standard MP4 video recording
Radiate Infrared Video Stream Transmission	Analysis at about 30Hz on PC
Non-radiate Infrared Video Stream Transmission	RTSP H.264
Video Resolution	1.3 MP
Data transfer interfaces	
Interfaces	USB, Bluetooth, Wi-Fi
Video out	Port of the display
Audio	Supported. Both microphone & speaker for voice annotation
Non-radiate Infrared Video Stream Transmission	Support
USB	Type-C
USB standard	2.0 High Speed
Voice Control	Voice assistant, quick command recognition
Bluetooth	Supported. To communicate with headset
Others	
Microphone/Speaker	Support
Battery	Lithium-ion battery, fast charging
Charging Mode	USB Type-C or desktop charger
Battery Life	Continuous operating time ≥ 2 hours (depending on the actual environment and service conditions)
External Interface	USB Type-C, SD card
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: 2g (IEC60068-2-6)
Weight and Dimensions	<1.7kg (with battery), 140×210×115mm
Color	Black
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×2, portable bag, charging cradle×1, hand strap, backpack strap, SD card, charging stand, standard lens.