GUIDE

Refresh the temperature record at 30Hz

Hammer Series Intelligent Thermal Camera

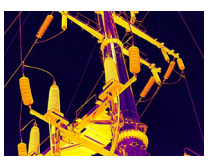
Introduction

With a built-in self-developed high-sensitivity IR detector with a maximum resolution of 640x480, a 13MP visible light camera, and 5 focusing modes, Hammer Series, the high-precision thermal camera designed specifically for the industrial field helps users intuitively view high-definition images and temperature details of the target, with the classic "hammer" shape. 30Hz infrared frame rate for fast and accurate access to more temperature data of moving targets, far beyond the same level of products.

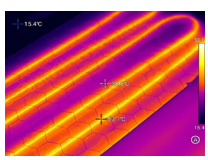
Features

- The new generation of self-developed IR detectors with a maximum resolution of 640x480
- ASIC algorithms for pixel point details and hidden hazards
- A 13MP visible light camera and dual illumination for easy location of faults
- Up to 30Hz IR video frame rate for temperature analysis by the screenshot
- IP54 waterproof and dustproof and 2m drop resistance with military-grade quality
- OTA online upgrades to keep the device in top shape
- Built-in WIFI module for easy transfer of images to the cloud and remote instant download and analysis

Applications



Power



HVAC

Oil and Petrochemical

Electronic Information

Product model	H6
Imaging and optics	
Detector type	VOx, 7.5 to 14μm
Infrared resolution	640×480@12μm
Super resolution	Yes, Upgrade to 1280×960
NETD	30mK
Frame rate	30Hz/9Hz
Focal length	17.7mm
Field of view	25°×19°/24°×18°
IFOV	0.68mrad/0.66mrad
Min. object distance	0.15m
D:S	1470:1
Focusing mode	Manual / Automatic / Touch autofocus / Continuous autofocus
Digital zoom	1.1x to 20x
Measurement and analysis	
Measurement range	Support auto-switching: -40°C to 150°C, 0°C to 650°C, Optional 500°C to 2000°C (High temperature lens is required)
Measurement accuracy	±2°C or ±2%, whichever is greater
Analyzed target	16 in total (Spot/Line/Area)
Alarm	Full screen temperature threshold alarm (image, voice and flash)
Others	Isothermals, Smart Stroke, Intelligently calculate the area
Image display	
Display screen	4.3" LCD, touch screen, 800×480
Image mode	IR, VIS, MIF, PIP
Color palettes	15: White Hot, Iron Red, Arctic, Rainbow 2, Hot Iron, Rainbow 1, Fulgurite, Medical, Tint, Black Hot, Blue Hot, Sepia, Green Hot, Ice and Fire, Amber; Customized
Image adjustment	Level span mode: Automatic, Semi-automatic, Manual
Digital camera	13MP
Functions	
Laser	Laser (Indication, Ranging 0.1m to 40m)
Recording function	Photo (image stitching) and Video (infrared & visible light)
Cloud Services	Available
Others	2 Customized buttons, OTA update
Storage and transmission	
Storage media	Built-in (64 GB) and external SD card (64 GB and up to 256 GB)
Image storage	JPG with temp info
Video storage	MP4 format (without temp info) can be used to record audio synchronously; Irgd (with temp info), up to 30 Hz (optional) for temperature analysis
External interface	USB-C, SD card slot, Tripod socket
WIFI	Yes, it can be connected to the mobile terminal for image and real-time video transmission
Bluetooth	Bluetooth 5.0, support image transmission (only for Android)
Power system	
Battery type	Lithium-ion rechargeable battery
Operating time	4 hours
Environmental parameters	
Working temperature	-20°C to 50°C
IP rating	IP54
Drop	2m drop test
Physical parameters	
Hardware	Illuminator×2, Microphone, Speaker, Electronic Compass, GPS
Weight	1.2kg (with battery)
Size	292×125×125mm
Software kit	PC: ThermoTools; Mobile: Thermography (iOS/Android)
Standard	A device (with lens), Lens front and back cover, Lithium-ion battery (2 pcs), Desktop charger, Power adapter, Adapter plug, USB-C to USB-C Cable, USB-A to USB-C Cable, RJ45 Ethernet Patch Cable, USB-C to Ethernet Adapter, SD card (64 GB) , Wrist strap, Shoulder strap, Safety box, Packaging list, Quick Start Guide, Data download card (analysis software & user manual), Certificate of approval, Factory certificate
Options	Battery, Optional lens (44°, 15°, 7°, high-temperature lens, macro lens), Carrying bag, Tripod, Bluetooth earphone, Docking station