



GUIDE

Refresh the temperature record at 30Hz

Hammer Series Intelligent Thermal Camera

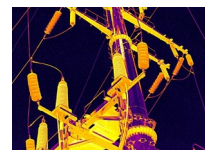
Introduction

With a built-in self-developed high-sensitivity IR detector 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.

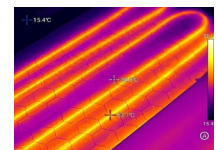
Features

- The new generation of self-developed IR detectors
- ASIC algorithms for pixel point details and hidden hazards
- A 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



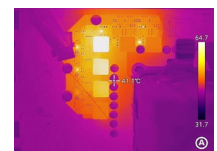
Power



HVAC



Oil and Petrochemical



Electronic Information

Specifications

Product model	H4
Imaging and Optics	
Detector type	Uncooled Microbolometer, Focal Plane Array
Spectral Range Coverage	7.5 to 14µm
Detector resolution	480x360 pixels
NETD at 30 °C	≤0.045 °C (at 30 Hz image frame rate)
Image frame rate	30 Hz, non-interlaced
Field of view	25° x 19°
I FOV	0.91 mrad
Minimum focus distance	0.15 m
Laser Distance Meter	Calculates Distance to target for precisely focused
Laser Alignment	Position is automatically displayed on the infrared image
Focus	Manual / Automatic / Touch autofocus / Continuous autofocus
Atmospheric transmission correction	Input correction for humidity, temperature, and measuring distance
Emissivity correction	Variable from 0.1 to 1.0 or select from listings in pre-defined materials list (at 0.01 step)
Digital Zoom	1.0x to 16x continuous
Measurement and analysis	
Temperature 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% of reading ,whichever is greater at 25 °C ambient
Measurement Mode	12 movable spots, 12 areas, 12 lines (auto maximum and minimum temperature)
Image Storage	Local storage (64 GB) and external SD card (64 GB and up to 256 GB)
Image Display	
Display	4.3" Colour Display , Touchscreen LCD
Visual	Built-in,8 Mpixels, Full color
Image Adjustment	Level Span Mode: Automatic, Semi-Automatic, Manual
Image Presentation Mode	IR(Infrared), VS(Visible Light), PIP (Picture in Picture) IR Resizable and movable, MIF (Auto blend)
Power system and Interface	
Battery	Internal Rechargeable battery, 4 hours operation
Interface	USB, Bluetooth and Wifi for connection between the camera to smartphone, notebook computer, and tablet
Environmental parameter	
Operating temperature	-20°C to 50°C
Vibration	2 G
Shock	25 G
Protection	IP54
Total Weight (Include Battery)	1.15 Kg

Specifications

Product model	H4
Warranty	2 Years
File Format	
Thermal	14 bit fully radiometric IR image
Visual	Visual image shall be linked with corresponding thermal image
Accessories	
The device support 60 seconds voice annotation with each image file, Communication cable, One (1) set battery charger and Two (2) sets battery and optional extra battery, Data analysis and reporting software, Transport case, Instruction manual in English, can be optional in Thai, Other accessories according to manufacturer's design and auxiliary equipment necessary to complete.	
Data Analysis and Reporting Software	
Data analysis and reporting software comprising useful function for Windows OS., iOS, Android OS.etc. operating system, with : thumbnail image viewer, support drag and drop transfer of selected images from PC card to computer independent emissivities correction variable from 0.1 to 1.0 select from listings in pre-defined material list (at 0.01 step), Spot tools, area tools and line tools with maximum, minimum and average temperature, and Delta T calculation function, Voice note replay, Wizard driven report generation, the report can be modified by user.	