

## Introduction

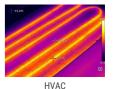
With a built-in self-developed high-sensitivity IR detector with a maximum resolution of 640x480, a 13MP visible light camera, and 5 focusing modes, Hammer Series, the high-precision thermal camera designed specifically for the industrial field helps users intuitively view high-definition images and temperature details of the target, with the classic "hammer" shape. 30Hz 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
- 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**





Oil and Petrochemical

**Electronic Information** 

## **Specifications**

Product model	H2	Н3	H3+	H4	Н6
Imaging and optics					
Detector type			VOx, 7.5 to 14μm		
Infrared resolution	256×192@12μm	320×240@12μm	384×288@12µm	480×360@12μm	640×480@12μm
Super resolution	Yes, Upgrade to 512×384	Yes, Upgrade to 640×480	Yes, Upgrade to 768×576	Yes, Upgrade to 960×720	Yes, Upgrade to 1280×960
NETD	45mK 40mK				
Frame rate	30Hz/9Hz				
Focal length	10.5mm 17.7mm				
Field of view	25°×19°				
IFOV	1.70mrad	1.36mrad	1.13mrad	0.91mrad	0.68mrad
Min. object distance	0.	1m		0.15m	
D:S	588:1	735:1	885:1	1099:1	1470:1
Focusing mode	Manual / Automatic / Touch autofocus / Continuous autofocus				
Digital zoom	1.1x to 8x				
Measurement and analy					
Measurement range	Support auto-switching: - 40°C to 150°C, 0°C to 650°C  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	5 in total (Spot/Line/Area)	8 in total (Spot/Line/Area)	10 in total (Spot/Line/Area)	12 in total (Spot/Line/Area)	16 in total (Spot/Line/Area)
Alarm	, ,	Full screen te	emperature threshold alarm (image, v	oice and flash)	,
Parameter settings	Emissivity, reflected temperature, target distance, humidity, atmospheric temperature, optical transmittance, dew point				
Others	Isothermals, Intelligently calculate the area  Isothermals, Smart Stroke, Intelligently calculate the area				
Image display	iounomale, memgenty eareaste are area				
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			1, Fulgurite, Medical, Tint, Bla	c, Rainbow 2, Hot Iron, Rainbow ack Hot, Blue Hot, Sepia, Green Amber; Customized
Image adjustment	Level span mode: Automatic, Semi-automat				,
Digital camera	51	лР	8MF		13MP
Functions		<u></u>			
Laser			aser (Indication, Ranging 0.1m to 40	m)	
Recording function	Photo and Video Photo (image stitching) and Video (infrared & visible light)				
Cloud Services	Available				
Others		C	customized physical button, OTA upd	ate	
Storage and transmission	n .		automized physical batton, o m upu	utc	
Storage media		Puilt-in (64.)	CP) and external SD eard (64 CP and	up to 256 CP)	
Image storage	Built-in (64 GB) and external SD card (64 GB and up to 256 GB)  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					
WIFI	USB-C, SD card slot, Tripod socket				
	Yes, it can be connected to the mobile terminal for image and real-time video transmission  Bluetooth 5.0, support image transmission (only for Android)				
Bluetooth		Biuetootii 3	o.o, support image transmission (only	/ TOT ATIUTOIU)	
Power system					
Battery type	Lithium-ion rechargeable battery				
Operating time	5 hours 4 hours				
Charging mode	USB-C charging; PC/portable charger; Capable of charging while using				
Charging time	90% of full charge in 2.5 hours				
Environmental paramete	ers				
Working temperature	-20°C to 50°C				
IP rating	IP54				
Drop	2m drop test				
Certification	CE, FCC, RoHS, KCC, Anatel, Damp heat test, Vibration test, Shock test, Impact test, UN38.3, MSDS				
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), Power adapter, Adapter plug, USB-C to USB-C Cable, USB-A to USB-C Cable, RJ45 Ethernet Patch Cable, USB-C to USB-C Cable, USB-A to USB-C Cable, RJ45 Ethernet Patch Cable, USB-C to USB-C Cable, USB-A to USB-C Cable, USB-C to Ethernet Patch Cable, USB-C to Ethernet Adapter, Squick Start Guide, Data download card (analysis software & user manual), Certificate of approval, Factory certificate				
Options	Desktop charger, Battery, Optional lens (44°, 15°, 7°), Carrying bag, Tripod, Bluetooth earphone, Docking station  Desktop charger, Battery, Optional lens (44°, 15°, 7°, hightemperature lens), Carrying bag, Tripod, Bluetooth earphone, Docking station  Battery, Optional lens (44°, 15°, 7°, hightemperature lens), Carrying bag, Tripod, Bluetooth earphone, Docking station  Docking station			5°, 7°, high-temperature lens, Tripod, Bluetooth earphone,	