

Introduction

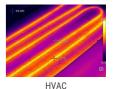
With a built-in self-developed high-sensitivity IR detector with a maximum resolution of 640x480, a 13MP visible light camera, and 5 focusing modes, Hammer Series, the high-precision thermal camera designed specifically for the industrial field helps users intuitively view high-definition images and 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	H6
Imaging and optics					
Detector type			V0x, 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	≤45 mK ≤40 mK				
Frame rate			30 Hz / 9 Hz		
Focal length		10.5 mm		17.	7 mm
Field of view			25°×19°		
IFOV	1.70mrad	1.36mrad	1.13mrad	0.91mrad	0.68mrad
Min. object distance	0.1			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 1.1x to 10x 1.1x to 16x 1.1x to 20x				
Shot recognition			Auto		
Measurement and analy	sis				
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 great	ater	
Analyzed target	Spot×5, Line×5, Area×5	Spot×8, Line×8, Area×8	Spot×10, Line×10, Area×10	Spot×12, Line×12, Area×12	Spot×16, Line×16, Area×16
Tracking / Alarm	Full screen maximum, minimum and average temperature tracking; The maximum, minimum and average temperature tracking of analyzed target; full screen temperature threshold alarm (image, voice and flash)				
Parameter settings	Emissivity, reflected temperature, target distance, humidity, atmospheric transmittance, optical transmittance, dew point				
Others	Isothermals, Smart Stroke, Intelligently calculate the area				
Image display			. 3 .,		
Display screen			4.3", 800×480 pixel touchscreer	LCD	
Digital camera	5 MP		8 MP		13 MP
Image mode	IR, VIS, MIF, PIP				
Image adjustment	Level span mode: Automatic, Semi-automatic, Manual				
Color palettes	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				
Functions	, , , , , , , , , , , , , , , , , , , ,		, g , , ,	,,,,,,	
Recording function	Photo and Video (infrared & visible light) Photo (image stitching) and Video (infrared & visible light)				
Cloud Services	Available				
Others		Customized	physical button, Intelligent diagr	nosis OTA undate	
Storage and transmission	l Nn	Oddioinized	physical batton, intelligent diagi	iosis, ora upuate	
Storage media		Local storage (6	4 GR) and external SD card (64	GR and up to 256 GR)	
Image storage	Local storage (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	Type-C, SD card slot, UNC ¼"-20 (Tripod mounting)				
WIFI					
Bluetooth	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)				
		Diuetootii 5	.u, support illiage transmission	(only for Allarola)	
Power system			1912 2 1 11 1 10		
Battery type	. F harma		Lithium-ion rechargeable batt		
Operating time	≥5 hours		20/	≥4 hours	
Charging mode	TYPE-C charging; PC/portable charger; Capable of charging while using				
Charging time			90% of full charge in 2.5 hou	rs	
Environmental paramete	ers				
Working temperature	-20°C to 50°C				
Storage temperature	-40°C to 60°C				
IP rating	IP54				
Drop	2m drop test				
Certification		CE, FCC, ROHS, KCC, Anatel, Da	amp heat test, Vibration test, Sh	ock test, Impact test, UN38.3, MSE	OS .
Physical parameters					
Hardware	Laser (Indication, Ranging 0.1m to 40m), Illuminator, Microphone, Speaker, Electronic Compass, GPS				
Weight	≤1.15kg (with battery) ≤1.15kG (with battery) ≤1.15kg (with battery)				
Size	292×125×125 mm				
Software kit	PC: ThermoTools; Mobile: Thermography (iOS/Android)				
Standard	A device (with lens), Front and lens covers, Lithium-ion battery (2 pcs), Power adapter, Adapter plug (for China, US, UK, Australia and Europe), Cable (double-headed TYPE-C USB), TYPE-C USB (double-headed TYPE-C USB), TYPE-C USB cable, Ethernet Cable, TYPE-C to RJ45, 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 A device (with lens), Front and lens covers, Lithium-ior pcs), Desktop charger, Power adapter, Adapter plug (for UK, Australia and Europe), Cable (double-headed TYPE-C USB, TYPE-C USB cable, Ethernet Cable, TYPE-C to RJ45, SI GB), Wrist strap, Shoulder strap, Safety box, Packaging list, Quick Start Guide, Data download card (analysis software & u Certificate of approval, Factory certificate				apter, Adapter plug (for China, US le (double-headed TYPE-C USB), ble, TYPE-C to RJ45, SD card (64 , Safety box, Packaging list, Quicl (analysis software & user manual
Options	Desktop charger, Battery, optional lens (44°, 15°, 7°, 25°), Carrying bog, Tripod, Bluetooth earphone, Docking station	temperature lens), Carrying b	onal lens (44°, 15°, 7°, 25°, high- og, Tripod, Bluetooth earphone, g station	macro lens), Carrying bog, Trip	o, 7°, 25°, high-temperature lens, od, Bluetooth earphone, Docking ation