

GUIDE

Refresh the temperature record at 30Hz

Hammer Series Intelligent Thermal Camera

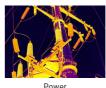
Introduction

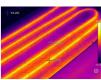
With a built-in self-developed high-sensitivity IR detector with a maximum resolution of 640x480, a 13MP visible light camera, and 5 focusing modes, Hammer Series, the high-precision thermal camera designed specifically for the industrial field helps users intuitively view high-definition images and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





HVAC





Oil and Petrochemical

Electronic Information

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Specifications

-						
Product model	H2	H3	H3+	H4	H6	
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	1		25°×19°	1	1	
IFOV	1.70mrad	1.36mrad	1.13mrad	0.91mrad	0.68mrad	
Min. object distance	0.1	1		0.15m		
D:S	588:1	735:1	885:1	1099:1	1470:1	
Focusing mode			utomatic / Touch autofocus / Contin		1	
Digital zoom	1.1x t	o 8x	1.1x to 10x	1.1x to 16x	1.1x to 20x	
Measurement and analy		1				
Measurement range	Support auto-switching: -40°C to 150°C, 0°C to 650°C	Support auto-switchir	ng: -40°C to 150°C, 0°C to 650°C, Op		nperature lens is required)	
Measurement accuracy			±2°C or ±2%, whichever is greate			
Analyzed target	5 in total (Spot/ Line/ Area)	8 in total (Spot/ Line/ Area)		12 in total (Spot/ Line/ Area)	16 in total (Spot/ Line/ Area)	
Alarm	Full screen temperature threshold alarm (image, voice and flash)					
Parameter settings	Emissivity, reflected temperature, target distance, humidity, atmospheric temperature, optical transmittance, dew point					
Others		Isothern	nals, Smart Stroke, Intelligently calcu	late the area		
Image display						
Display screen	4.3", 800×480 pixel touchscreen LCD					
Image mode	IR, VIS, MIF, PIP					
Color palettes	15: White Hot, Iron Keo, Arctic, Kalindow 2, Hot Iron, Kalindow 1, Fulgurite, Medical, Tint, Black Hot, Plugurite, Medical, Tint, Black				, Rainbow 2, Hot Iron, Rainbow 1 Hot, Blue Hot, Sepia, Green Hot, nber, Customized	
Image adjustment		Levels	span mode: Automatic, Semi-automa	tic, Manual		
Digital camera	5 MP		8 MP		13 MP	
Functions						
Laser	Laser (Indication, Ranging 0.1m to 40m)					
Recording function	Photo and Video		Photo (image stitching) and Video Photo (image stitching) and Video (infrared & visible light)			
Cloud Services			Available	Available		
Others		Customize	d physical button, Intelligent diagnos	sis, OTA update		
Storage and transmissio	n			· •		
Storage media		Built-in (64	GB) and external SD card (64 GB an	d 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	Type-C, SD card slot, UNC ¼"-20 (Tripod mounting)					
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	1		
Operating time	5 hours 4 hours					
Charging mode	TYPE-C charging; PC/portable charger; Capable of charging while using					
Charging time	90% of full charge in 2.5 hours					
Environmental paramete	rs		sele et fan onarge in 2.0 nouis			
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	I	52, 1 55, 1016, 100, Analei,			•	
Hardware	Illuminator×2, Microphone, Speaker, Electronic Compass, GPS					
Weight	1.15kg (with battery)		1.15KG (with battery)		1.15kg (with battery)	
Size	292×125×125mm				in ong (min battery)	
Software kit	PC: ThermoTools; Mobile: Thermography (iOS/Android)					
Software Kit	Adapter plug (for China, US, U cable, Ethernet Cable, TYPE-C Packaging list, Quick Start	ont and back cover, Lithium-io K, Australia and Europe), Type to RJ45, SD card (64 GB) , Wris	n battery (2 pcs), Power adapter, C to C Charger Cable, TYPE-C USB st strap, Shoulder strap, Safety box, nalysis software & user manual),	A device (with lens), Lens fro battery (2 pcs), Desktop charg (for China, US, UK, Australia a Cable, TYPE-C USB cable, Ethe card (64 GB), Wrist strap, Shou list, Quick Start Guide, Data dow	ont and back cover, Lithium-ion ger, Power adapter, Adapter plug nd Europe), Type C to C Charger ernet Cable, TYPE-C to RJ45, SD Ilder strap, Safety box, Packagin wnload card (analysis software a f approval, Factory certificate	
Options	Desktop charger, Battery, Optional lens (44°, 15°, 7°), Carrying bag, Tripod, Bluetooth earphone, Docking station	temperature lens), Carryin	Optional lens (44°, 15°, 7°, high- g bag, Tripod, Bluetooth earphone, king station	Battery, Optional lens (44°, 15°,	7°, high-temperature lens, maci etooth earphone, Docking statio	