

GUIDE

Refresh the temperature record at 30Hz

Hammer Series Intelligent Thermal Camera

Introduction

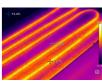
With a built-in self-developed high-sensitivity IR detector with a maximum resolution of 640x480, a 13MP visible light camera, and 5 focusing modes, Hammer Series, the high-precision thermal camera designed specifically for the industrial field helps users intuitively view high-definition images and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

Specifications

Duaduat madal	110	110		114	114
Product model Imaging and optics	H2	H3	H3+	H4	H6
			V0x, 7.5 to 14µm		
Detector type Infrared resolution	2E6×102@12um	320×240@12µm	384×288@12µm	480×360@12µm	640×480@12µm
Super resolution	256×192@12µm 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	res, upgrade to 512×364	res, opyrade to 040×460	45mK		40mK
			30Hz/9Hz		40111K
Frame rate		10 5	30HZ/9HZ	17	7
Focal length	10.5mm 17.7mm 17.7mm				
Field of view IFOV	1.70m rad	1.06 marcad		0.01mm	0.60mmad
-	1.70mrad	1.36mrad	1.13mrad	0.91mrad	0.68mrad
Min. object distance D:S	0.1		005-1	0.15m	1470.1
-	588:1 735:1 885:1 1099:1 1470:1 Manual / Automatic / Touch autofocus / Continuous autofocus Manual / Automatic / Touch autofocus Manual / Automaticus Manual / Automaticus Manual				
Focusing mode	1 1				1 1+- 00
Digital zoom	1.1x t	28X	1.1x to 10x	1.1x to 16x	1.1x to 20x
Measurement and analy	Support auto-switching: -40°C				
Measurement range	to 150°C, 0°C to 650°C	Support auto-switchi	ng: -40°C to 150°C, 0°C to 650°C, Op	tional 500°C to 2000°C (High ter	nperature lens is required)
Measurement accuracy			$\pm 2^{\circ}$ C or $\pm 2\%$, whichever is greated	er	
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		(1) /	temperature threshold alarm (image,		(
Parameter settings	Emissivity, reflected temperature, target distance, humidity, atmospheric temperature, optical transmittance, dew point				
Others	Isothermals, Smart Stroke, Intelligently calculate the area				
Image display		lootien	nalo, omar otione, menigentij oaloe		
Display screen			4.3", 800×480 pixel touchscreen L	CD	
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, Rhun Hot, Sonia, Groon Hot, Ico, and Fire, Amber				Hot, Blue Hot, Sepia, Green Hot
Image adjustment	ice and Fire, Amber, Customized				
Digital camera			span mode: Automatic, Semi-automatic, Manual		13 MP
Functions	5 MP		8 MP		I S IVIP
			Leser (Indiantian Danging 0.1m to)	10m)	
Laser	Laser (Indication, Ranging 0.1m to 40m) Photo and Video Photo (image stitching) and Video Photo (image stitching) and Video				
Recording function	Photo and	a video	Photo (image stitching) and Video Photo (image stitching) and Video (infrared & visible light)		
Cloud Services	Available Customized physical button, Intelligent diagnosis, OTA update				
Others		Customize	a physical button, intelligent diagnos	sis, UTA update	
Storage and transmissio		Duilt in (C)			
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	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 (or	ily for Android)	
Power system					
Battery type	Lithium-ion rechargeable battery				
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	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, Shoc	k test, Impact test, UN38.3, MSD	S
Physical parameters					
Hardware		Illuminato	r×2, Microphone, Speaker, Electronic	Microphone, Speaker, Electronic Compass, GPS	
Weight	1.15kg (wit	h battery)	1.15KG (wit	1.15KG (with battery) 1.15kg (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 (for China, US, UK, Australia and Europe), Type C to C Charger Cable, 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), Lens front and back cover, L battery (2 pcs), Desktop charger, Power adapter, A (for China, US, UK, Australia and Europe), Type C to Cable, TYPE-C USB cable, Ethernet Cable, TYPE-C card (64 GB), Wrist strap, Shoulder strap, Safety box, Certificate of approval, Factory certificate User manual), Certificate of approval, Factory certificate				jer, 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
Options	Desktop charger, Battery, Optional lens (44°, 15°, 7°), Carrying bag, Tripod, Bluetooth earphone, Docking station Desktop charger, Battery, Optional lens (44°, 15°, 7°, high- temperature lens), Carrying bag, Tripod, Bluetooth earphone, Docking station Battery, Optional lens (44°, 15°, 7°, high- temperature lens), Carrying bag, Tripod, Bluetooth earphone, Docking station				7°, high-temperature lens, mac