

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. 50Hz Frame rate for fast and accurate access to more temperature data of moving targets, far beyond the same level of products.

Features

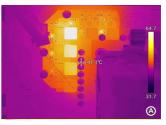
- The new generation of self-developed IR detectors with a maximum resolution of 640x480
- · ASIC algorithms for pixel point details and hidden hazards
- A 13MP visible light camera and dual illumination for easy location of faults
- Up to 50Hz IR video frame rate for temperature analysis by the screenshot
- Dual-FOV lens. One lens, two views wide & narrow switch easily
- Optional wide temperature range (-40°C to 2000°C) with a single lens
- Fast charging supported 90% charge in just 1 hour
- OTA firmware upgrade to keep the device up-to-date

Applications



-|-1540 -|-3950 |-5610 |-5610





Power

HVAC

Oil and Petrochemical

Electronic Information

Specifications

Product model	H2	H3	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		30mK		20	mK			
Frame rate			50Hz/9Hz					
Focal length	6.8mm	8.5mm	10.5mm	13mm	17.7mm			
Field of view			25°×19°					
IFOV	1.70mrad	1.36mrad	1.13mrad	0.91mrad	0.68mrad			
Min. object distance		I	0.15m	I				
D:S	588:1	735:1	885:1	1099:1	1470:1			
Focusing mode		Image Autofocus / Laser Autof	focus / Continuous Autofocus /	Manual Focus / Touch-to-Focu	IS			
Digital zoom		to 8x	1x to 10x	1x to 16x	1x to 20x			
Measurement and analys			17.10.107	17.10.107	17 10 207			
Measurement range		vitching: -40°C to 150°C 0°C to	. 650°C 500°C to 2000°C (Nee	d ontion ultra-wide measureme	nt range lens kit)			
Measurement accuracy	Support auto-switching: -40°C to 150°C, 0°C to 650°C, 500°C to 2000°C (Need option ultra-wide measurement range lens kit) $\pm 2^{\circ}\text{C or } \pm 2^{\circ}\text{W, whichever is greater}$							
Analyzed target	5 in total (Spot/Line/Area)	8 in total (Spot/Line/Area)	10 in total (Spot/Line/Area)		16 in total (Spot/Line/Area)			
Alarm	3 III total (Spot/Lille/Alea)	(1 - 7			To ili total (Spot/Elile/Alea)			
	Full screen temperature threshold alarm (image, voice and flash) Isothermals, Smart Stroke, Intelligently calculate the area							
Others		isotnermais,	Smart Stroke, intelligently calc	urate the area				
Image display			4.011.00.4	20				
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 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; Customized							
Image adjustment	Level span mode: Automatic, Semi-automatic, Manual,Local							
Digital camera	51	MP	81	8MP 13MP				
Functions								
Laser	Laser (Indication, Ranging 0.1m to 40m)							
Recording function	Photo a	nd Video	Photo (image	Photo (image stitching) and Video (infrared & visible light)				
Cloud Services	Available							
Others	Customized physical button, OTA update							
Storage and transmissio	n							
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 50 Hz (optional) for temperature analysis							
External interface	USB-C, SD card slot, Tripod socket							
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 batter	ry				
Operating time		5 hours	. 3		ours			
Environmental paramete	rs							
Working temperature			-20°C to 50°C					
IP rating	IP54							
Drop	2m drop test							
Physical parameters			Zill drop test					
Hardware		Illuminator × 2	Microphone Speaker Floatroni	Compace GDC				
	Illuminator×2, Microphone, Speaker, Electronic Compass, GPS							
Weight	1.24kg (with battery)							
Size	292×125×125mm							
Software kit	PC: ThermoTools; Mobile: Thermography (iOS/Android) A device (with lens), Lens front and rear caps, Lithium-ion batteries (2 pcs), Desktop charger, Power adapter, Adapter plug, USB-C to USB-C cable, USB-C to USB-C cable, USB-C to Ethernet Adapter, SD card (64 GB), Wrist strap, Shoulder strap, Carrying bag, Safety box, Quick start quide, Data download card							
Standard	(aı	nalysis software & user manua	I), Factory inspection report, Ca	libration certificate, Warranty of	eard			
Options	Optional lenses: Wide-angle (44°), Medium telephoto (15°), Telephoto (7°), DFOV (25°+15°/25°+45°), Ultra-wide measurement range lens kit (25°/15°/7°), Macro; Docking station, Tripod, Lab stand, Ethernet cable							

Optional lens information list

Model	H2	H3	H3+	H4	Н6
Standard: Standard Lens (Optional: Ultra-wide meas	25°) urement range lens kit (25°)				
Focal length	6.8mm	8.5mm	10.5mm	13.0 mm	17.7 mm
FOV	25°×19°	25°×19°	25°×19°	25°×19°	25°×19°
IFOV	1.7mrad	1.36mrad	1.14mrad	0.91 mrad	0.68 mrad
Min focus distance	0.15m	0.15m	0.15m	0.15m	0.15m
Option1: Medium Telepho Option2: Ultra-wide measu	to (15°) rement range lens kit (15°)				
Focal length	11.7mm	14.6mm	17.7mm	21.7 mm	29.0 mm
FOV	15°×11°	15°×11°	15°×11°	15°×11°	15°×11°
IFOV	1.02mrad	0.82mrad	0.68mrad	0.55 mrad	0.41 mrad
Min focus distance	1m	1m	1m	1m	1m
Option1: Telephoto (7°) Option2: Ultra-wide measu	rement range lens kit (7°)				
Focal length	25.1mm	31.4mm	37.5mm	40.1 mm	62.9 mm
FOV	7°×5°	7°×5°	7°×5°	7°×5°	7°×5°
IFOV	0.48mrad	0.38mrad	0.32mrad	0.25 mrad	0.19 mrad
Min focus distance	3m	3m	3m	3m	3m
Wide Angle (44°)					
Focal length	4mm	5mm	6mm	7.5 mm	10.0 mm
FOV	44°×33°	44°×33°	44°×33°	44°×33°	44°×33°
IFOV	3.01mrad	2.41mrad	2.00mrad	1.60 mrad	1.20 mrad
Min focus distance	0.1m	0.1m	0.1m	0.1m	0.1m
DFOV Lens (Standard + Me	edium telephoto lens)				
Focal length	6.8mm/11.7mm	8.5mm/14.6mm	10.5mm/11.7mm	13.0mm/21.7mm	17.7mm/29mm
FOV	25°×19°/15°×11°	25°×19°/15°×11°	25°×19°/15°×11°	25°×19°/15°×11°	25°×19°/15°×11°
IFOV	584:1/970:1	730:1/1219:1	885:1/1449: 1	1075:1/1818:1	1470:1/2439:1
Min focus distance	0.15m/1m	0.15m/1m	0.15m/1m	0.15m/1m	0.15m/1m
DFOV Lens (Standard + Wi	ide-angle lens)				
Focal length	6.8mm/4.0mm	8.5mm/5.0mm	10.5mm/6.0mm	13.0mm/7.5mm	17.7mm/10.0mm
FOV	25°×19°/44°×33°	25°×19°/44°×33°	25°×19°/44°×33°	25°×19°/44°×33°	25°×19°/44°×33°
IFOV	1.70mrad/3.00mrad	1.36mrad/2.40mrad	1.10mrad/1.88mrad	0.91mrad/1.64mrad	0.69mrad/1.18mrad
Min focus distance	0.15m/0.1m	0.15m/0.1m	0.15m/0.1m	0.15m/0.15m	0.15m/0.15m
3X Macro Lens	1				
Focal Length			17.9mm	13.4mm	17.9mm
IFOV			63.0um	50.4um	37.8um
Min focus distance		/	50mm	50mm	50mm
F-number			1.1	1.1	1.1
Magnification			0.32x	0.32x	0.32x