



See Heat, See More.

MobIR 3.0

The Smallest Dual-Vision Thermal Camera for iOS & Android Smartphone.

Introduction

MobIR 3.0 Series smartphone thermal camera is available in three configurations: 120 × 90, 256 × 192, and 256 × 192 dual-vision. Powered by proprietary ApexVision imaging technology, it delivers enhanced image clarity and reveals finer thermal details. With seamless compatibility for both iOS and Android, MobIR 3.0 connects easily to smartphones, enabling home monitoring, HVAC inspection, electrical fault diagnosis, equipment maintenance, outdoor adventure and more. Its compact plug-and-play design makes it highly portable and easy to operate anytime, anywhere.

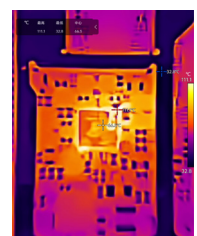
Features

- Proprietary ApexVision imaging technology for sharper, clearer thermal images with enhanced detail
- Available in 120×90, 256×192, and 256×192 dual-vision configurations
- Seamless compatibility with iOS and Android devices
- 5-second startup for instant and efficient inspections
- AI-powered multilingual assistant for easy operation and quick onboarding
- Aerospace-grade metal housing with IP54 protection and 2 m drop resistance for reliable durability

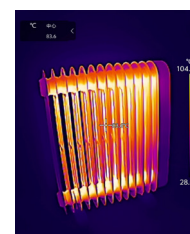
Applications



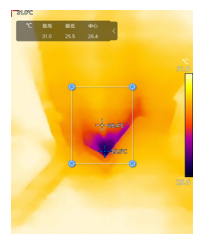
Electrical Diagnosis



PCBA Detection



HVAC Inspection



Building inspection

Specifications



Product model	ES1	ES2	ES2+
Imaging and optics			
Core technology	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + Platform Nexus 1.0 + Algorithm SharpIR 2.0		
Detector type	VOx, 7.5 to 14μm		
Infrared resolution	120×90@12μm	256×192@12μm	
Super resolution	Support real-time super-resolution reconstruction, upgrade to 480×360	Support real-time super-resolution reconstruction, upgrade to 512×384	
NETD	≤15mK (@30℃)		
Frame rate	25Hz	30Hz	
Focal length	1.6mm	3.2mm	
Field of view	50°×38°	56°×42°	
IFOV	7.27mrad	3.82mrad	
Min. object distance	0.1m	0.3m	
D:S	138:1	262:1	
Focusing mode	Focus-free		
Measurement and analysis			
Measurement range	Support auto-switching: -20℃ to 150℃, 0℃ to 550℃		
Measurement accuracy	±2℃ or ±2%, whichever is greater		
Analyzed target	Spot, line, area		
Alarm	Available		
Image display			
Image mode	IR, PIP (Access to Mobile Phone Camera)		IR, VIS, MIF, PIP
Color palettes	12 and 1 customized		
Digital camera	/		800×600
Functions			
Recording function	Photo and Video		
Others	OTA update		
Storage and transmission			
External interface	USB Type-C Male Connector		
Power system			
Battery type	Battery-free (Powered by mobile phone), Power consumption: 310mW	Battery-free (Powered by mobile phone), Power consumption: 400mW	Battery-free (Powered by mobile phone), Power consumption: 620mW
Environmental parameters			
Working temperature	-20℃ to 50℃		
IP rating	IP54		
Drop	2m drop test		
Physical parameters			
Weight	25g	31g	32g
Size	51×24×15.1mm	58×24×17.6mm	
Software kit	FocusIR (iOS/Android)		
Standard	A device, Interface protective case, Carrying bag, Quick Start Guide, Warranty card		
Options	USB-C to Lightning Adapter (USB-C Female to Lightning Male), Magnetic macro lens (30x)	USB-C to Lightning Adapter (USB-C Female to Lightning Male), Magnetic macro lens (15x)	

MobIR 3.0 Smartphone & Tablet Compatibility

MobIR 3.0 supports a wide range of smartphones and tablets with a plug-and-play experience. Devices with a Lightning port require an optional USB-C to Lightning adapter (USB-C female to Lightning male), available from our official channels.

iPhone: iPhone 15 series and later models support direct connection via USB-C; iPhone 14 series and earlier models require a USB-C to Lightning adapter.

iPad: iPad models with a USB-C port support direct connection; iPad models with a Lightning port require a USB-C to Lightning adapter.

Android / HarmonyOS: Supports direct USB-C connection with Android devices and HarmonyOS devices based on the Android ecosystem; currently not compatible with HarmonyOS NEXT devices.



USB-C to Lightning Adapter

Thermal

Easy, Efficient, Extraordinary

EasIR Series Tool-like Thermal camera

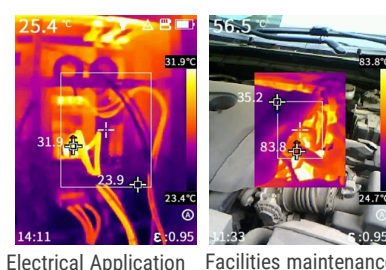
Introduction

EasIR Series tool-like thermal camera provides two configuration options of 120x90 and 256x192 IR detectors. It adopts the new real-time IR-Perfclear technology to enhance the details and reduce noise of the image and present a clearer image in real time. Equipped with a series of professional functions such as 2MP visible light camera, video streaming and recording, WIFI, and OTA upgrade, etc., EasIR Series brings a clearer, more powerful and smoother work experience for users.

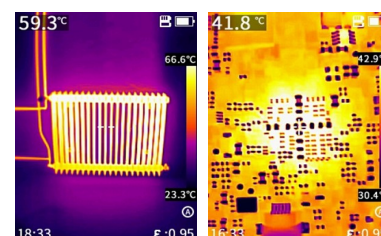
Features

- Next-gen infrared imaging system APEXVISION for ultra-clarity & precision
- High-sensitive infrared detector, resolution 120x90/256x192
- Real-time IR-Perfclear technology, 4 times better image quality
- -20°C~550°C wide temperature measurement range, automatic switch
- Photo and video recording, convenient sharing via mobile APP
- Video streaming, real-time data transmission with PC analysis software
- OTA firmware upgrade to keep the device up-to-date

Applications



Electrical Application Facilities maintenance



HVAC Inspection PCBA detection

Specifications

Product model	E1S	E1+S	E2S	E2+S
Imaging and optics				
Core technology	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + Platform Nexus 1.0 + Algorithm SharpIR 2.0			
Detector type	VOx, 7.5 to 14μm			
Infrared resolution	120×90@12μm		256×192@12μm	
Super resolution	Support real-time super-resolution reconstruction, upgrade to 240×180		Support real-time super-resolution reconstruction, upgrade to 512×384	
NETD	≤15mK (@30°C)			
Frame rate	25Hz/9Hz			
Focal length	1.6mm		3.2mm	7mm
Field of view	50°×38°		56°×42°	25°×19°
IFOV	7.27mrad		3.82mrad	1.71mrad
Min. object distance	0.1m			
D:S	138:1		262:1	585:1
Focusing mode	Focus-free			Automatic
Measurement and analysis				
Measurement range	Support auto-switching: -20°C to 150°C, 0°C to 550°C			
Measurement accuracy	±2°C or ±2%, whichever is greater			
Analyzed target	Center spot; Three Fixed Areas: Small, Medium, Large (Alternative)			
Alarm	Full screen temperature threshold alarm (Image and Flash)			
Image display				
Display screen	2.4" LCD			
Image mode	IR, VIS, MIF, PIP			IR, VIS, MIF and PIP
Color palettes	6: Iron Red, White Hot, Arctic, Rainbow 2, Hot Iron, Rainbow 1			
Image adjustment	Level span mode: Automatic, Semi-automatic, Manual			
Digital camera	2MP			
Functions				
Laser	Laser Indication			
Recording function	Photo and Video			
Storage and transmission				
Storage media	Built-in (16 GB)			
Image storage	JPG with temp info			
Video storage	Video storage format in Irgd (with temp info)	Supports real-time video streaming, video storage format in Irgd (with temp info)		
External interface	USB-C, Tripod socket			
Wi-Fi	/	Yes, it can be connected to the mobile terminal for image and real-time video transmission		
Power system				
Battery type	Rechargeable lithium-ion battery, non-removable			
Operating time	8 hours		11 hours	
Environmental parameters				
Working temperature	-15°C to 50°C			
IP rating	IP54			
Drop	2m drop test			
Physical parameters				
Hardware	Illuminator	Wi-Fi, Illuminator		
Weight	355g		375g	
Size	194×61.5×76mm			
Software kit	PC: ThermoTools	PC: ThermoTools; Mobile: FocusIR (iOS/Android)		
Standard	A device, Wrist strap, Power adapter, Adapter plug, USB-A to USB-C cable, Quick Start Guide, Warranty card			
Options	Tripod			

* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors.
All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.

Thermal

**3.5-inch super large screen,
extra long battery life for
peace of mind**

EasIR Max Series Tool-like Thermal camera

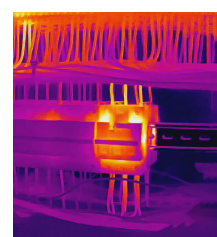
Introduction

EasIR Max Series offers high-resolution detectors (256×192 or 384×288) for precise capture of minute temperature variations. Featuring IR-Perfclear technology, it optimizes image details and reduces noise in real time, delivering exceptionally clear thermal imaging. The device is equipped with a 3.5-inch bright HD display and a 2 MP visible-light camera, supporting both synchronous display or image fusion of thermal and visible-light. Enhanced with smart capabilities including live video streaming, recording, Wi-Fi connectivity, and OTA upgrades, it significantly boosts work efficiency.

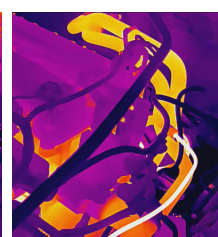
Features

- Next-gen infrared imaging system APEXVISION for ultra-clarity & precision
- High-sensitive infrared detector, resolution 256x192/ 384x288
- Real-time IR-Perfclear technology, 4 times better image quality
- -20°C~550°C wide temperature measurement range, automatic switch
- Photo and video recording, convenient sharing via mobile APP
- Video streaming, real-time data transmission with PC analysis software
- OTA firmware upgrade to keep the device up-to-date

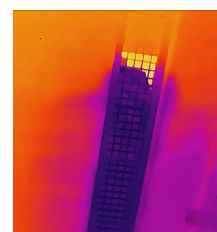
Applications



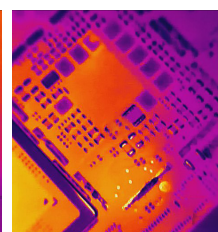
Electrical Application



Facilities maintenance



HVAC Inspection



PCBA detection

Specifications

Product model	E3S	E4S
Imaging and optics		
Core technology	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + Platform Nexus 1.0 + Algorithm SharpIR 2.0	
Detector type	VOx, 7.5 to 14μm	
Infrared resolution	256×192@12μm	384×288@12μm
Super resolution	Support real-time super-resolution reconstruction, Upgrade to 512×384	Support real-time super-resolution reconstruction, Upgrade to 768×576
NETD	≤15mK (@30°C)	
Frame rate	30Hz/9Hz	
Focal length	3.2mm	7mm
Field of view	56°×42°	38°×28°
IFOV	3.82mrad	1.73mrad
Min. object distance	0.3m	
D:S	262:1	578:1
Focusing mode	Focus-free	
Measurement and analysis		
Measurement range	Support auto-switching: -20°C to 150°C, 0°C to 550°C	Support auto-switching: -20°C to 150°C, 0°C to 650°C
Measurement accuracy	±2°C or ±2%, whichever is greater	
Analyzed target	Center spot; Three Fixed Areas: Small, Medium, Large (Alternative)	
Alarm	Full screen temperature threshold alarm (Image and Flash)	
Image display		
Display screen	3.5" LCD, 640×480	
Image mode	IR, VIS, MIF, PIP	
Color palettes	6: Iron Red, White Hot, Arctic, Rainbow 2, Hot Iron, Rainbow 1	
Image adjustment	Level span mode: Automatic, Semi-automatic, Manual	
Digital camera	2MP	
Functions		
Laser	Laser Indication	
Recording function	Photo and Video	
Others	OTA update	
Storage and transmission		
Storage media	Built-in (32 GB)	
Image storage	JPG with temp info	
Video storage	Supports real-time video streaming, video storage format in Irgd (with temp info)	
External interface	USB-C, Tripod socket	
Wi-Fi	Yes, it can be connected to the mobile terminal for image and real-time video transmission	
Power system		
Battery type	Rechargeable lithium-ion battery, non-removable	
Operating time	12 hours	10 hours
Environmental parameters		
Working temperature	-15°C to 50°C	
IP rating	IP54	
Drop	2m drop test	
Physical parameters		
Hardware	Wi-Fi, Illuminator	
Weight	440g	460g
Size	227×81×77.5mm	
Software kit	PC: ThermoTools; Mobile: FocusIR (iOS/Android)	
Standard	A device, Wrist strap, Carrying bag, Power adapter, Adapter plug, USB-A to USB-C cable, Quick Start Guide, Warranty card	
Options	Macro lenses (10x/5x), Tripod	

* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors.
All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.



Thermal

Operating with great facility



PF Series Pocket-sized Thermal Camera

Introduction

The PF Series pocket-sized thermal camera is a non-contact inspection tool for diagnosing problems and finding hidden deficiencies of electrical equipment, thanks to its 256×192 pixel infrared detector, -20°C to 550°C temperature range, 5 MP visible light camera and 3.5-inch LCD touchscreen. The extraordinary thermal imaging detail, easy operation and built-in Wi-Fi allow users to quickly and easily share the professional reports that document the problem.

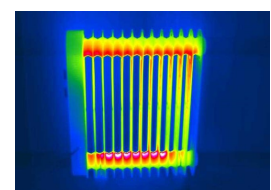
Features

- Next-gen infrared imaging system APEXVISION for ultra-clarity & precision
- The IR, VIS, PIP and MIF reveal temperature details
- -20°C to 550°C temperature range with auto-switching capability
- Laser ranging and intelligent area calculation of rectangle objects
- Fast image lookback and search for desired functions
- 4 hours of operation and standard Type-C for fast charging

Applications



Electrical Application



HVAC Inspection

Specifications

Product model	PF210S
Imaging and optics	
Core technology	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + Platform Nexus 1.0 + Algorithm SharpIR 2.0
Detector type	VOx, 7.5 to 14μm
Infrared resolution	256×192@12μm
NETD	≤15mK (@30°C)
Frame rate	25Hz/9Hz
Focal length	3.2mm
Field of view	56°×42°
IFOV	3.82mrad
Min. object distance	0.3m
D:S	262:1
Focusing mode	Focus-free
Digital zoom	1.1x to 8x
Measurement and analysis	
Measurement range	Support auto-switching: -20°C to 150°C, 100°C to 550°C
Measurement accuracy	±2°C or ±2%, whichever is greater
Analyzed target	Spot×2 (Include Center spot), Area×3
Alarm	Full screen temperature threshold alarm (Image and Flash)
Others	Intelligently calculate the area
Image display	
Display screen	3.5" LCD, touch screen
Image mode	IR, VIS, MIF, PIP
Color palettes	6: White Hot, Black Hot, Iron Red, Hot Iron, Rainbow, Arctic
Image adjustment	Level span mode: Automatic, Semi-automatic, Manual
Digital camera	5MP
Functions	
Laser	Laser (Indication, Ranging)
Recording function	Photo
Cloud Services	Available
Others	Customized physical button×2
Storage and transmission	
Storage media	Built-in (16 GB)
Image storage	JPG with temp info
External interface	USB-C, Tripod socket
Wi-Fi	Yes, it can be connected to the mobile terminal for image transmission
Power system	
Battery type	Rechargeable lithium-ion battery, non-removable
Operating time	4 hours
Environmental parameters	
Working temperature	-10°C to 50°C
IP rating	IP54
Drop	1m drop test
Physical parameters	
Hardware	Wi-Fi, Illuminator
Weight	296g
Size	138×89×34mm
Software kit	PC: ThermoTools; Mobile: FocusIR (iOS/Android)
Standard	A device, Wrist strap, Carrying bag, Power adapter, Adapter plug, USB-A to USB-C cable, Quick Start Guide, Warranty card
Options	Tripod

* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors.
All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.



**APEX
VISION**

Thermal

**50Hz - Unprecedented
real-time temperature
data update speed**

Hammer II Series Intelligent Thermal Camera

Introduction

Hammer II Series -- High-Precision Hammer-Style Infrared Camera is specifically designed for industrial inspections and electrical grid maintenance. Equipped with a proprietary self-developed high-sensitivity detector, its 50Hz high frame rate and wide temperature measurement range ensure precise capture of abnormal heating points. Equipped with a single-lens dual-FOV design, it instantly switches between wide-angle and narrow-angle views without lens changes. This enables seamless adaptation to complex scenarios, efficiently handling both long-distance inspections and close-range temperature measurements.

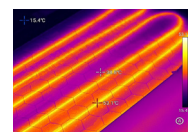
Features

- Next-gen infrared imaging system APEXVISION for ultra-clarity & precision
- 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
- Fast charging supported -- 90% charge in just 1 hour
- OTA firmware upgrade to keep the device up-to-date
- Optional Dual-FOV Lens with instant wide/narrow FOV switching.
- Optional Wide Temperature Range Lens supporting a temperature range from -40°C to 2000°C.

Applications



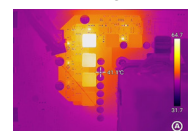
Power



HVAC



Oil and Petrochemical



Electronic Information

Specifications

Product model	H2S	H3S	H3+S	H4S	H6S
Imaging and optics					
Core technology	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + Platform Nexus 1.0 + Algorithm SharpIR 2.0				
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	≤15mK (@30℃)				
Frame rate	50Hz/9Hz				
Focal length	6.8mm	8.5mm	10.5mm	13.0mm	17.7mm
Field of view	25°×19°				
IFOV	1.70mrad	1.36mrad	1.14mrad	0.91mrad	0.68mrad
Min. object distance	0.15m				
D:S	588:1	735:1	877:1	1099:1	1471:1
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
Measurement and analysis					
Measurement range	Support auto-switching: -40℃ to 150℃, 0℃ to 650℃, 500℃ to 2000℃ (RangeMax Ultra-wide measurement range lens kit is required)				
Measurement accuracy	±2℃ 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 temperature threshold alarm (Image, Voice, Color and Flash)				
Others	Isothermals, Smart stroke, Intelligently calculate the area, Color highlighting				
Image display					
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 dimming				
Digital camera	5MP		8MP		13MP
Functions					
Laser	Laser indication; Laser ranging 0.1m to 40m				
Recording function	Photo and Video		Photo (image stitching) and Video (infrared & visible light)		
Cloud Services	Available				
Others	Customized physical button, OTA update				
Storage and transmission					
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				
Wi-Fi	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				
Operating time	5 hours				
Environmental parameters					
Working temperature	-20℃ to 50℃				
IP rating	IP54				
Drop	2m drop test				
Physical parameters					
Hardware	Wi-Fi, Illuminator×2, Microphone, Speaker, Electronic Compass, GPS				
Weight	1.24KG (with standard lens and battery)				
Size	292×125×125mm				
Software kit	PC: ThermoTools; Mobile: FocusIR (iOS/Android)				
Standard	A device (with lens), Lens front and back cover, Lithium-ion battery (2 pcs), Desktop charger, Power adapter, Adapter plug, USB-C to USB-C cable, USB-A to USB-C cable, USB-C to Ethernet Adapter, SD card (64 GB) , Wrist strap, Shoulder strap, Carrying bag, Safety box, Quick Start Guide, Warranty Card, Inspection Report, Calibration Certificate				
Options	Optional lenses: Wide-angle (44°), Medium Telephoto (15°), Telephoto (7°), TwinView DFOV (25°+15° / 25°+45°), RangeMax Ultra-wide Kit (25° / 15° / 7°); Tripod, Docking station, Ethernet cable		Optional lenses: Wide-angle (44°), Medium Telephoto (15°), Telephoto (7°), TwinView DFOV (25°+15° / 25°+45°), RangeMax Ultra-wide Kit (25° / 15° / 7°), Macro; Tripod, Docking station, Ethernet cable		

* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors.
All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.

APEX
VISION

High Frame Rate Superior Imaging

PT II Series HD High-Performance Thermal Camera

Thermal

Introduction

PT II series Flagship Edition Megapixel Thermal Imager incorporates a new generation of self-developed uncooled infrared focal plane detector, achieving a resolution of up to 1280×1024. Its exclusive A/M-Focus manual/automatic hybrid focusing system delivers superior image quality and enhanced operational flexibility. The PT Series has undergone comprehensive upgrades in hardware configuration, software systems, and user experience, aiming to establish a new industry benchmark.

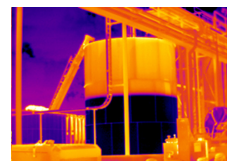
Features

- APEXVISION for ultra-clarity & precision.
- Fast charging supported – 90% charge in just 1 hour.
- PerIRVision image stitching technology.
- Optional Dual-FOV Lens with instant wide/narrow FOV switching.
- An optional temperature range to 2500°C for more applications.
- Observation of 36μm objects through a macro lens.

Applications



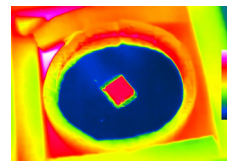
Power



Oil and Gas Maintenance



Building Inspections



Research and Development

Specifications

Product model	PT450S	PT650S	PT850S	PT870S
Imaging and optics				
Core technology	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + Platform Nexus 1.0 + Algorithm SharpIR 2.0			
Detector type	VOx, 7.5 to 14μm			
Infrared resolution	480×360@12μm	640×512@12μm	1024×768@12μm	1280×1024@12μm
Super resolution	Yes, Upgrade to 960×720	Yes, Upgrade to 1280×1024	Yes, Upgrade to 2048×1536	Yes, Upgrade to 2560×2048
NETD	≤15mK (@30℃)			
Frame rate	50Hz/9Hz			
Focal length	12.94mm	17.6mm	27.7mm	35mm
Field of view	25°×20°			
IFOV	0.91mrad	0.68mrad	0.43mrad	0.34mrad
Min. object distance	0.3m			
D:S	1099:1	1471:1	2326:1	2941:1
Focusing mode	Manual / Automatic / Touch autofocus / Continuous autofocus			
Digital zoom	1x to 35x	1x to 40x	1x to 50x	
Measurement and analysis				
Measurement range	Support auto-switching: -40℃ to 150℃, 0℃ to 650℃, Optional 400℃ to 2500℃ (High temperature lens is required)		Support auto-switching: -40℃ to 150℃, 0℃ to 800℃, Optional 400℃ to 2500℃ (High temperature lens is required)	
Measurement accuracy	±1℃ or ±1%, whichever is greater			
Analyzed target	25 in total (Spot/Line/Area)	30 in total (Spot/Line/Area)	35 in total (Spot/Line/Area)	
Alarm	Full screen temperature threshold alarm (Image, Voice, Color and Flash)			
Others	Isothermals, Smart Stroke, Intelligently calculate the area, Color Highlighting			
Image display				
Display screen	5.5" LCD, touch screen, 1920×1080			
Eyepiece	OLED screen, 1920×1080			
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; Customized			
Image adjustment	Level span mode: Automatic, Semi-automatic, Manual, Local dimming			
Digital camera	Dual visible light, up to 13MP		Dual visible light, up to 16MP	
Functions				
Laser	Laser indication; Laser ranging 0.1m to 35m			
Recording function	Photo (image stitching) and Video (infrared & visible light)			
Cloud Services	Available			
Others	Customized physical button, NFC connection, OTA update			
Storage and transmission				
Storage media	Built-in (64 GB) and external SD card (128 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)			
External interface	USB-C, DC (12V) , SD card slot, Micro HDMI, Tripod socket			
Wi-Fi	Yes, it can be connected to the mobile terminal for image and real-time video transmission			
Cellular network	5G module (optional)			
Bluetooth	Bluetooth 5.0, support image transmission (only for Android)			
Power system				
Battery type	Lithium-ion rechargeable battery			
Operating time	4.5 hours	4 hours		3.5 hours
Environmental parameters				
Working temperature	-20℃ to 50℃			
IP rating	IP54			
Physical parameters				
Hardware	Wi-Fi, Illuminator, Microphone, Speaker, Electronic Compass, GPS, Status screen			
Weight	1.73kg (with standard lens and battery)		1.84kg (with standard lens and battery)	
Size	191×171×118mm			
Software kit	PC: ThermoTools; Mobile: FocusIR (iOS/Android)			
Standard	A device (with lens), Lens front and back cover, Lithium-ion battery (2 pcs), Desktop charger, Power adapter, Adapter plug, USB-A to USB-C cable, USB-C to Ethernet Adapter, Ethernet cable, Micro HDMI to HDMI cable, SD card (128 GB), Wrist strap, Shoulder strap, Safety box, Carrying bag, Quick Start Guide, Warranty Card, Inspection Report, Calibration Certificate			
Options	Optional lenses: Wide-angle (45°), Medium Telephoto (15°), Telephoto (7°), TwinView DFOV (25°+15° / 25°+45°), High-temperature, Macro; Tripod, Bluetooth earphone, 5G module			

* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors.
All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.



Thermal

Thermal Imaging Pioneer: Engineered for Extreme Firegrounds

PR II Series Firefighter Thermal Camera

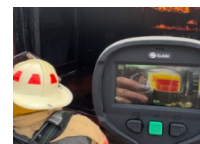
Introduction

PR II series dual-purpose thermal imaging camera for rescue and detection empowers a new perspective for firefighters. The product is certified as Intrinsic Safety Explosion-Proof. It combines high resolution, a large display screen, multiple scene modes, temperature analysis functions, and a strong protection rating, which can break through the limitations of harsh environments such as high temperatures, high humidity, and thick smoke in fire scenes to help firefighters see the surrounding environment quickly and clearly, locate the fire and search for trapped individuals more accurately, providing users with more efficient and safe fire visualization solutions.

Features

- Next-gen infrared imaging system APEXVISION for ultra-clarity & precision
- 60Hz infrared frame rate with anti-glare display
- Six image modes such as basic firefighting/fire scenes/search and rescue, etc.
- IP67 and 2-meter drop, function fully for up to 5 minutes at 260°C
- One-click image & video saving, smooth storage with 128GB capacity
- Temperature analysis & over-temperature alarm, -20°C to 2000°C range
- Multi-Function Accessories: Dock for charging and data transfer; practical Retractable Tether and lanyard; optional digital camera module.

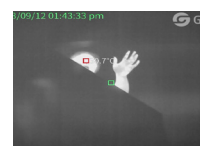
Applications



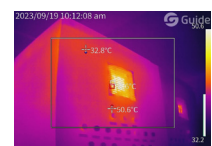
Fire reconnaissance



Fire extinguishing



Search and rescue



Fire inspection

Specifications

Product model	PR410S	PR610S
Imaging and optics		
Core technology	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + Platform Nexus 1.0 + Algorithm SharpIR 2.0	
Detector type	VOx, 7.5 to 14μm	
Infrared resolution	384×288@12μm	640×480@12μm
NETD	≤15mK (@30°C)	
Frame rate	60Hz/9Hz	
Focal length	9mm	
Field of view	50°×37°	
IFOV	2.27mrad	1.36mrad
Min. object distance	0.5m	
D:S	441:1	735:1
Focusing mode	Focus-free	
Digital zoom	2x / 4x / 8x	
Measurement and analysis		
Measurement range	Support auto-switching: -40°C to 150°C, 0°C to 650°C, Optional 500°C to 2000°C (Aperture is required)	
Measurement accuracy	±2°C or ±2%, whichever is greater	
Analyzed target	Three spots: Center, Maximum temperature, Minimum temperature; Three Fixed Areas: Small, Medium, Large (Alternative)	
Alarm	Full screen temperature threshold alarm (Vibration, Screen flicker, Buzzer)	
Image display		
Display screen	4.3" LCD, 800×480	
Image mode	6 Modes: Basic fire fighting, Black and white, Fire scene, Search and rescue, Thermal detection, Standard	
Color palettes	8: Black Hot, White Hot, Iron Red, Arctic, Hot Iron, Rainbow 1, Fulgurite, Tint (Alternative palettes are supported only in Standard mode)	
Image adjustment	Level span mode: Automatic	
Digital camera	5MP (requires optional digital camera module)	
Functions		
Laser	Laser indication & ranging (requires optional digital camera module)	
Recording function	Photo and Video	
Others	OTA update	
Storage and transmission		
Storage media	Built-in storage (128 GB)	
Image storage	JPG with temp info	
Video storage	MP4 format (without temp info); Irgd (with temp info), up to 50 Hz (optional) for temperature analysis	
External interface	USB-C, Micro HDMI, Tripod socket	
Wi-Fi	Yes, it can be connected to the mobile terminal for image and real-time video transmission	
Power system		
Battery type	Lithium-ion rechargeable battery	
Operating time	4 hours	
Environmental parameters		
Working temperature	General Working temperature range: -10°C to +50°C; Specific Working temperature ranges: 80°C: 30 minutes, 120°C: 10 minutes, 260°C: 5 minutes	
IP rating	IP67	
Drop	2m drop test	
Physical parameters		
Hardware	Wi-Fi, Speaker	
Weight	1.3kg (with battery)	
Size	296×122×153mm	
Software kit	PC: ThermoTools; Mobile: FocusIR (iOS/Android)	
Standard	A device (with lens), Lens cover, Aperture, Lithium-ion battery (3 pcs), Desktop charger, Power adapter, Adapter plug, USB-C to USB-C Cable, USB-A to USB-C Cable, Micro HDMI to HDMI Cable, Hand strap, Neck strap, Retractable Tether, Lanyard, Carrying bag, Safety box, Quick Start Guide, Warranty card, Inspection report, Calibration certificate	
Options	Digital camera module, Battery, In-truck charger, Tripod	

* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors.
All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.



Thermal

Acoustic with Thermal, All-in-One

FA Series Acoustic & Thermal Imaging Camera

Introduction

The FA Series Acoustic & Thermal Imaging Camera deeply integrates acoustic imaging and thermal imaging technologies. It is equipped with 128 high-precision microphones, a 640×512 infrared detector, ultra-large 10.1-inch touchscreen, and the internal and external battery solution. The FA Series is capable of quickly detecting temperature anomalies, locating gas leaks and identifying Partial Discharge, offering efficient and detection solutions for industries such as power, manufacturing, and petrochemicals.

Features

- **APEXVISION** : Next-gen infrared imaging system for ultra-clarity & precision
- **High-precision acoustics**: 128 MEMS microphones in a spiral array, accurately capturing sound sources up to 130m
- **Accurate temperature measurement**: 640×512 thermal detector, visualized temperature measurement with professional analysis functions.
- **Touch to control**: 10.1-inch capacitive touchscreen, 1920×1200 resolution, comfortable viewing and easy operation.
- **Modular design**: Hot-swappable modules of laser rangefinder, thermal prime lens, and auto-focus lens, for multiple scenarios.
- **Intelligent diagnosis**: Built-in professional Partial Discharge and leakage detection modes, automatic fault area focusing to enhance detection efficiency.
- **Uninterruptible power**: 5 hours of continuous operation, the dual internal and external battery solution supports battery replacement without powering off.

Applications



Power industry



Industrial manufacturing



Petrochemical industry

Specifications

Product model	FA611S
Acoustic sensor	
Microphone array	128 low-noise MEMS microphones
Bandwidth	0 kHz to 65 kHz, Adjustable range
SPL range	0~120 dB
Frame rate	30 Hz
Detection mode	Partial Discharge / Gas Leak
Thermal sensor (Thermal module required)	
Core technology	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + Platform Nexus 1.0 + Algorithm SharpIR 2.0
Detector type	VOx, 7.5 to 14μm
Infrared resolution	640×512@12μm
Super resolution	Yes, Upgrade to 1280×1024
NETD	≤15mK (@30°C)
Frame rate	50Hz/9Hz
Focal length	13mm/17.7mm
Measurement range	Support auto-switching: -40°C to 150°C, 0°C to 650°C
Measurement accuracy	±2°C or ±2%, whichever is greater
Image display	
Display screen	10.1" LCD, touch screen, 1920×1200
Digital camera	13MP
Digital zoom	1.1x~20x
Image mode	AU, IR, MIF, PIP
Functions	
Laser	Support laser indication, laser ranging range of 0.1m to 35m
Recording function	Photo and Video
Cloud Services	Available
OTA	Available
Storage and transmission	
Storage media	External SD card (128 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	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 battery
Operating time	Built-in battery + External battery: 5 hours
Environmental parameters	
Working temperature	-20°C to 50°C
IP rating	IP54
Physical parameters	
Hardware	Wi-Fi, Illuminator, Microphone, Speaker, Electronic Compass, GPS
Weight	Acoustic Laser Rangefinder Version: 1.88kg; Acoustic Focus-free Thermal Version: 1.97kg; Acoustic Autofocus Thermal Version: 2.18kg
Size	309×243.5×74mm/309×243.5×100mm
Software kit	PC: ThermoTools; Mobile: FocusIR (iOS/Android)
Package Contents	Device (acoustic, module optional), Customized Batteries ×2, Desktop Charger, Power Adapter with Plugs, USB-A to USB-C Cable, USB-C to USB-C Cable, Micro HDMI to HDMI Cable, RJ45 Ethernet Patch Cable, Docking Station, SD Card (128GB), Shoulder Strap, Hand Strap, Carrying Case, Safety Box, Quick Start Guide, Inspection Report, Calibration Certificate, Warranty Card
Optional Items	Tripod, Bluetooth Earphones, Optional module (Laser Rangefinder, Focus-free Thermal, Autofocus Thermal)

* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors.
All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.