Guide sensmart

Infrared Thermal Imaging Makes You Powerful

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Professional Tools
Thermal Imaging Cameras
CATALOG

Guide sensmart

Sensing Beyond Visible

▶ Company profile

Wuhan Guide Sensmart Tech Co., Ltd, a subsidiary company of Wuhan Guide Infrared Co., Ltd（SZ.002414）, was established in November 2016 with registered capital of 60M RMB, focusing on R&D, manufacturing and marketing for commercial infrared imaging products.

Guide Sensmart is a comprehensive infrared imaging solution supplier to various industries with high performance, best service and experience. This capabilities rely on the mother companies self-innovated technologies which spanned from component to system level. At the present, Sensmart's products are applied in the industrial inspection, security and surveillance, fire fighting and rescue, law enforcement, industrial automation, smart home and consumer electronics, etc.

Guide Sensmart is devoted to developing and popularizing new applications of infrared imaging technology. With continuous exploration and innovation, it provides intelligence solutions, expands the channels and dimensions of human perception of the world and opens the intelligent and consumer infrared era.

Key Advantage

Technology	Thermal sensor R&D and production fully localized
Quality	Massive production, quality assurance, long-term stable supply
Service	Focusing on applications for 20 years, provide customers professional service
Innovation	Adhere to innovation based on customer demand and technology leadership

Globally advanced R&D bases for whole infrared industrial chain

The new Guide Infrared Industrial Park locates at the core zone of China Optics Valley and it covers an area of 133,400 ㎡. It has been developed into the biggest infrared thermal industrialized bases in Asia with the world-class scientific research, design and production facility which integrates infrared thermal imager, infrared detector and composited optoelectronic system.
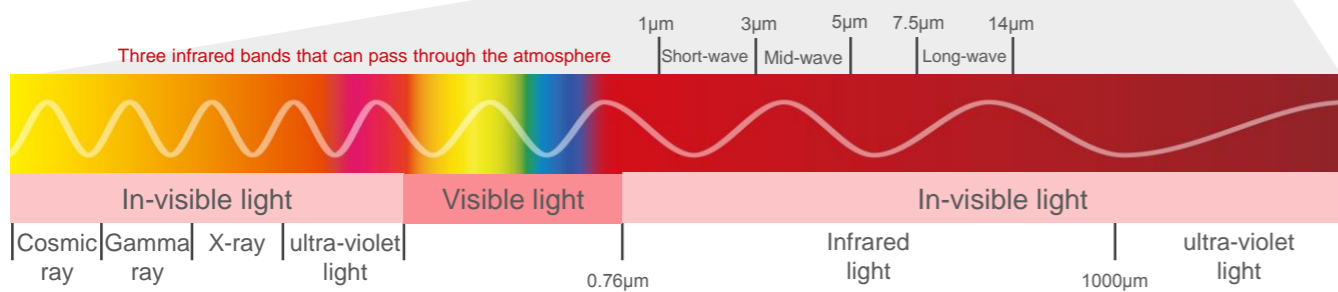
Technical principles of Thermal Camera

What is Infrared?

Any object that has a temperature above absolute zero (-273.15 degrees Celsius or 0 Kelvin) emits radiation. The infrared radiation, together with visible light, ultra-violet light, X-ray, gamma ray, cosmic ray and radio waves form the entire spectrum of electromagnetic. Wavelength of infrared is between 0.76μm to 1000μm, it is a kind of in-visible light that wavelength longer than red light.
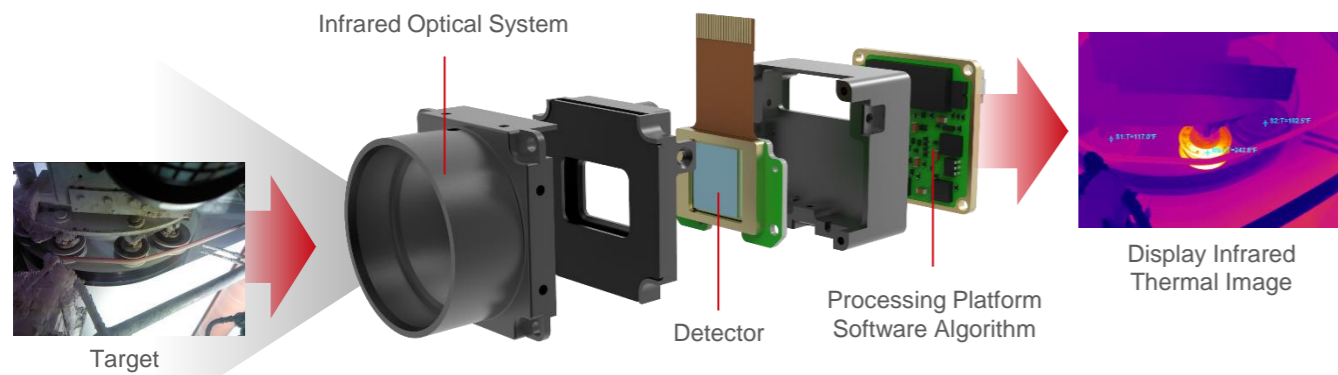
Sunlight

Electromagnetic Wave

Three infrared bands that can pass through the atmosphere

1μm   3μm   5μm   7.5μm   14μm

Short-wave | Mid-wave | Long-wave

In-visible light | Visible light | In-visible light

Cosmic ray | Gamma ray | X-ray | ultra-violet light | Infrared light | ultra-violet light

0.76μm   1000μm

Infrared thermal imaging system uses infrared detectors to sense infrared radiation, and convert it to electrical signals which are then amplified, processed to an image displayed.

What is Infrared Camera?

Infrared Optical System

Target

Detector

Processing Platform Software Algorithm

Display Infrared Thermal Image

Basic Principle

Thermal imaging technology is a kind of passive, non-contact detection and recognizing technology.
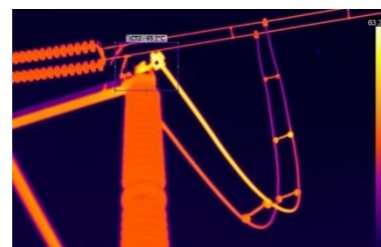
Thermography Non-contact temperature measurement and fault detection

Night Vison Easily detect and identify the target in total darkness

Advantages

Simple and Intuitive: Pinpoint the abnormal hot/cold spots and predict the potential failures effectively with IR images supports.

Efficient and time-saving: The general view of IR image will display the temperature's distribution clearly. In that case, the operator could inspect the large area very quick, the inspection time are reduced to great extents.

Weather Proof: Thermographic camera could work very well even in the night, or any bad weather of poor visibility, such as heavy fog and dusty weather. No limitation of visible light, can be operated in night and bad weather.
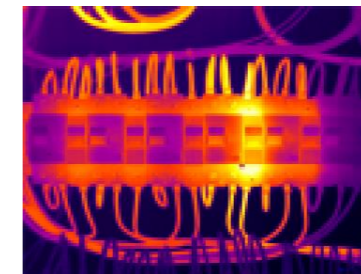
Safe and accurate: Temperature reading could be accomplished passively and accurately even when the observing target is far away from the thermographic camera. This non-contact inspection way ensures operator's safety if in tough working environment.
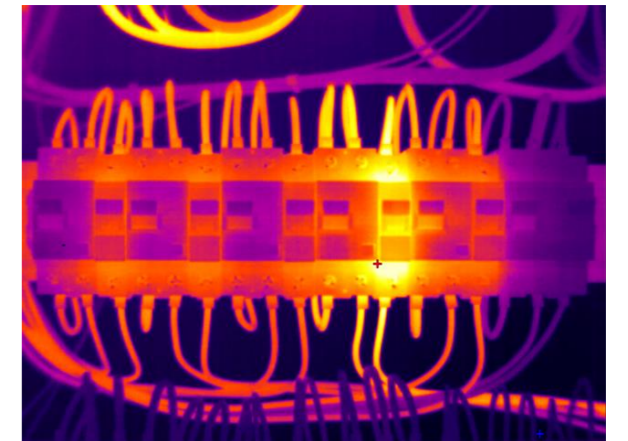
IR Detector Resolution

The higher the resolution of the detector, the more pixels and temperature points of the thermal image can be measured, and smaller targets can be measured and further distances can be observed.
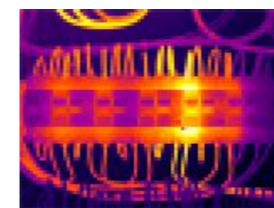
160×120px   384×288px   640×480px

How to choose a Thermal Camera

	① How Far/How Small	② How Clear	③ How Fast
Principles	The smaller the IFOV is, the smaller object and further distance can be measured	NETD determines the capability to distinguish tiny temp differences	Frame rate determines the speed camera captures the temperature changing and moving objects
Key Features	Resolution of the detector FOV IFOV	Temp Measurement Range Temp Measurement Accuracy Temp Measurement Sensitivity Resolution of the detector FOV IFOV	Frame Rate

Why choose Guide's Thermal Camera?

Best Service

High Quality

▼ Self-developed High Performance IR Detector

The self-developed uncooled infrared focal plane detector of high sensitivity and stable performance, which can quickly capture clear and delicate thermal images.

IR Visible

▼ Superior Image Quality

Provides four image display modes of IR, Visible, Picture-in-Picture and MIF. The exclusive MIF multi-spectral image fusion patent technology supports the fusion of visible image details on the thermal image, which will enhance your observation experience and work efficiency.

PIP MIF

▼ Free and Simple Analysis Software

Free PC "IR Analyser" exclusive analysis software for professional analysis and post-processing; remote control and real-time sharing with Wi-Fi connectivity app "Thermography".

▼ Stable Supply with Quality Assurance

With completely independent intellectual property rights, we obtained more than 200 domestic and foreign patents. We have strong R&D capacity and stable supply chain of our own, providing high technology IR thermal products with no export license restrictions.

▼ Rugged and Reliable Product Design

With ergonomic design concept, Guide's product are easy to use and can also withstand drop, rugged and durable. All products have passed CE/FCC/ROHS certification, and the product quality is guaranteed.

CE FC RoHS

Customize Service

OEM/ODM: As the profound thermal imaging technology basis both in development and production, could provide clients in infrared industry OEM/ODM service.

Solution: Provide professional, effective, and convenient customize solution based on the client's requirements.

Pre-sale service

Consulting: Provide on-site demo demonstration and answer customer's questions professionally

Mid-sale service

Designs: provide reasonable and complete solutions based on the requirement and application conditions.

Technical Instruction: The professional technical engineer will be specially assigned to give tech supports to the project's implementation all the time to guarantee the project's high quality.

After-sale Service

Quality Warranty: Two year's quality warranty to the product, 6 months quality warranty to the accessories. Provide lifetime maintenance.

Free training: The calibration service and product training will be provided for free.

Global network: The subsidiary company Eunir in Belguim is dedicated to provide much more effective service to the overseas clients.

Guide's European Subsidiary

Guide's Headquarter of China
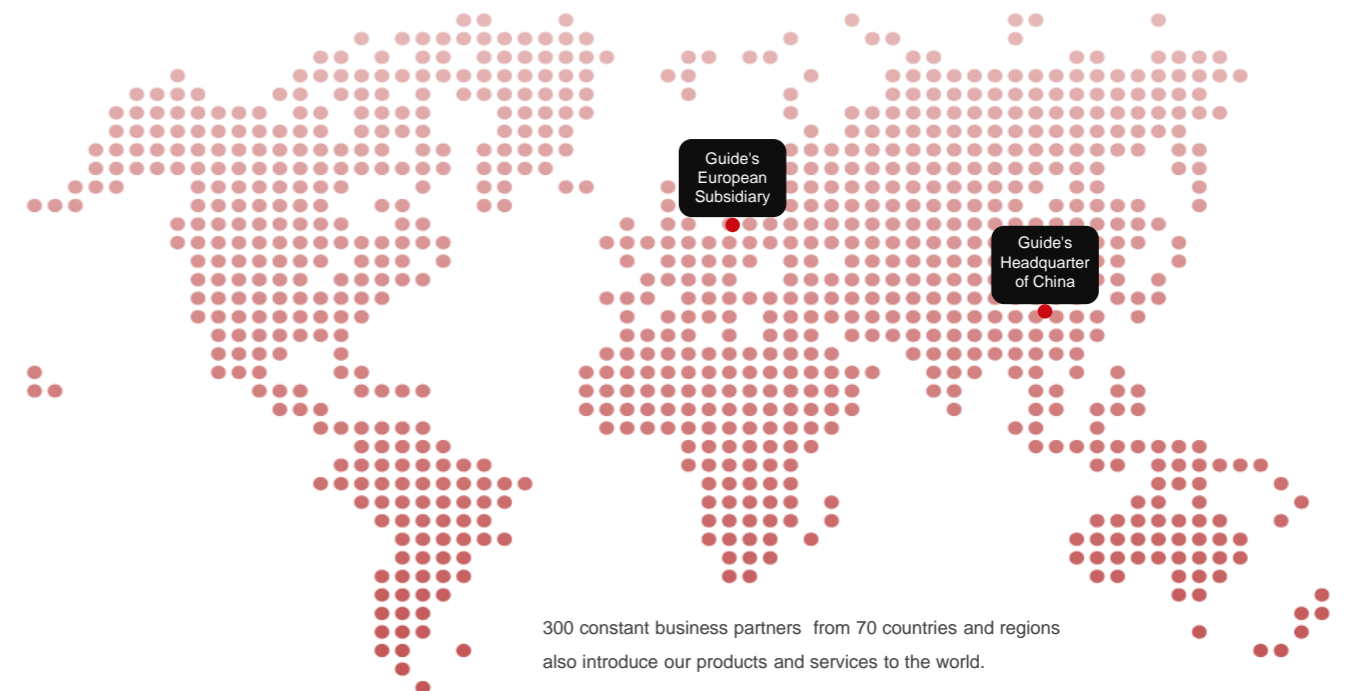
300 constant business partners from 70 countries and regions also introduce our products and services to the world.

MobIR Air

Thermal Camera for Smartphone

Transform your smartphone into a thermal camera

Name	MobIR Air
Resolution	120×90
Pixel size	17μm
Field	50°
Frame rate	25Hz
Power consumption	< 150mW
Interface	Android:USB Type-C
Temperature measurement range	-20℃ ~120℃
Weight	About 20g
Dimension	50mm×14mm×18mm
Color dark	Grey | Silver | Golden

Plug and play easy to use

High frame rate no image stuck

Tiny and convenient

Low running power no battery required

For Traveling

◉ Find Hidden Camera

To protect your privacy while traveling

For Home

◉ HVAC Inspection

◉ Water Pipe Leak Detection

◉ Electrical Cabinet Inspection

38.8

G Guide

video   photo

For Work

◉ Electrical Board

◉ Computer Over-heat Detection

◉ Electronic Product Over-heat Test
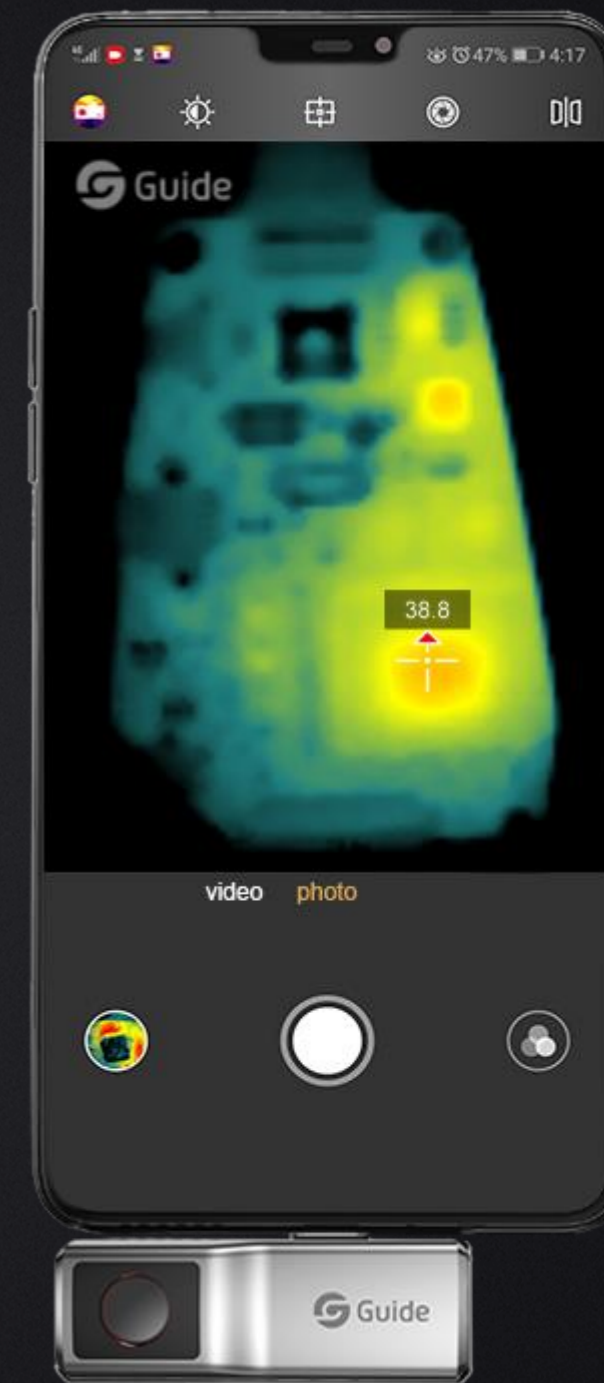
T Series Entry-level Portable Thermal Camera

See the heat of 10,800 pixels in 1 second

Building Diagnostics
HVAC Inspection
Facilities maintenance
Electrical Application

T120 Series Entry-level Thermal Image Camera is an affordable temperature measuring tool widely used for building diagnostics, HVAC inspections, electrical system inspections and more. It perfectly overcomes the shortcomings of the single spot infrared thermometers and helps work smarter, safer and faster. Equipped with Guide's self-developed 120x90 WLP IR modules, T120 series thermal cameras can display radiometric data of 10,800 pixels instantly which helps quickly detect large areas and pinpoint fault spots accurately. It can also easily save images and data, and download fast via USB, removable TF card or WIFI.
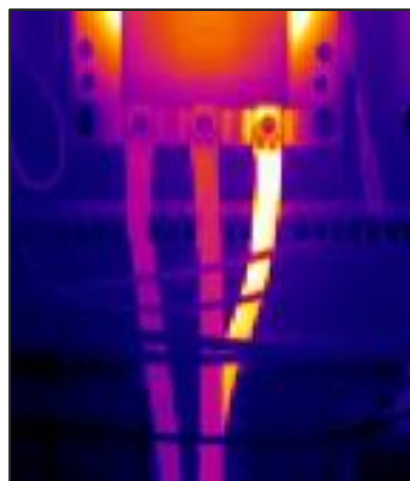
▼ Boot-up in 1 second
Boot up and display fully radiometric image instantly
Full screen max & min temperature alarm

▼ 2.4 inch Large Display
240x320 pixel Color LCD

▼ Good-handle Buttons
Ergonomic design
Easy to operate even wear the gloves

▼ 8-hour Battery Life
Low power consumption,
Large capacity battery

▼ 2-hour Quick Charge
USB Type-C Interface
High power quick charge

▼ IR/Visible/Laser Indicator
Pinpoint targets precisely

▼ Trigger Button
Trigger button for photo taking

▼ Rugged Design
2-meter Drop Test, IP54 Encapsulation

| Model	T120	T120V
IR image & Optical		
IR Resolution	120×90@17µm	
Detector type	VOx/7.5~14µm	
Frame Rate	25 HZ	
Thermal Sensitivity / NETD	60 mk	
Focal Length	2.28mm/F1.13	
Field of view(FOV)	50°×38°	
Spatial Resolution(IFOV)	7.6 mrad	
Focus	Focus-free	
Visible Camera		
Visible Camera Resolution	N/A	320×240
Focal Length	N/A	0.3-5m, Focus-free
Flashlight	N/A	Yes
Image Display		
Display	2.4 inch, LCD display	
Display Resolution	320×240	
Image Model	IR image	IR/Visible/Picture-in-picture
Color Palettes	6:White Hot, Iron Red, Hot Iron, Arctic, Rainbow 1, Rainbow 2	
Temperature Measurement		
Temperature Range	-20°C-150°C, 100°C-400°C (Auto switching)	
Accuracy	±2°C or ±2%, whichever is greater (target temp ≥0°C, ambient temp is 15°C ~ 30°C)	
Measurement Spot	Center spot	
Measurement Area	Fixed, large, medium and small (incl. max & min temp)	
Auto Hot & Cold Spot Tracking	Yes	
Alarm	Full Screen Max & Min Spot Alarm	
Image Storage		
Storage Media	TF card (Standard 16G, up to 32G)	
IR Image Format	Full Radiometric (JPG) (120 x 90)	
Visible Image	N/A	Yes, 320 x 240
Connections & Communications		
USB	TYPE-C、TF Card slot	
Laser	Yes	
Tripod interface	Yes	
WIFI	N/A	Yes, image transmission available
Mobile APP	N/A	Yes
PC IR Analysis Software	Yes	
Power System		
Battery Tpye	Rechargeable Li ion battery	
Battery Operating Time	> 8 hours	> 5 hours
Charging Time	Internal charge , ≤2.5 hours	
Environmental Parameters		
Operating Temperature	-10°C~50°C	
Storage Temperature	-40°C~70°C	
Encapsulation	IP54 , 2-meter drop test	
Certification	CE/ROHS/FCC	
Weight	about 350g	
Size	133.05mm*87.31mm*24.1mm	
Standard Accessories	Wrist Strap, Quick start Guide, Charger + Adapter, TYPE-C USB cable, Data Download Card, 16G TF Card	

P Series Pocket-sized Thermal Camera

Compact Size, Professional Grade

Building Diagnostics
HVAC Inspection
Facilities maintenance
Electrical Application

P120V Pocket-sized Thermal Camera designed for electrical equipment maintenance and building inspection, which can fast detect the potential problems, report repair data and share images by Wi-Fi. It is a truly handy thermal camera that fits in your pockets for fast and accurate thermal inspections anytime. P120V featured with 3.5-inch LCD touchscreen for simple operation, and support picture-in-picture, smooth zoom, max and min temperature alarm, Cloud Service and more.
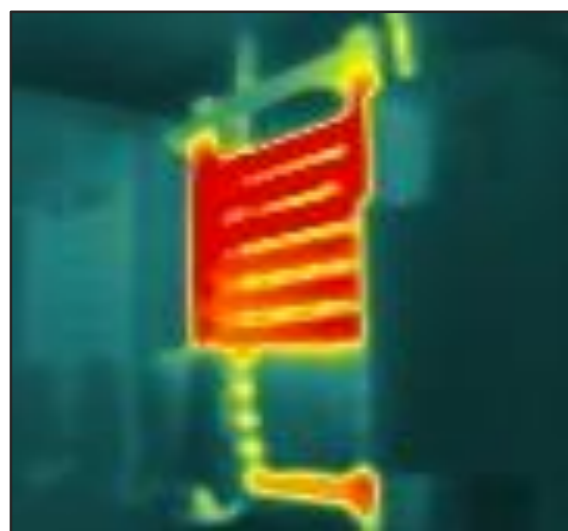
▼ **-20℃-400℃ wide measurement range**
Auto switching between-20℃-150℃ and 150℃-400℃

▼ **Reasonable Layout and Good Ergonomic Design**
No interfere between lens area and grip area

▼ **3.5" Touchscreen Display**
High-brightness LCD, 320 x 240 pixels

▼ **Android Platform, Intelligent Operation**
User-friendly design based on Android system, which is as simple as using a smartphone.

▼ **Wi-Fi connectivity , support Cloud Service**
Wi-Fi connectivity enabled for remote control and instant sharing. And support Cloud Album, you can back up the images to the Cloud in real-time.

| Model	P120V
IR image & Optical	
IR Resolution	120 x 90 @17μm
Detector type	VOx/7.5~14μm
Frame Rate	25 HZ
Thermal Sensitivity / NETD	60 mk
Focal Length	2.28mm/F1.13
Field of view(FOV)	50°x38°
Spatial Resolution(IFOV)	7.6mrad
Focus	Foucus-free
Visible Camera	
Visible Camera Resolution	640 x 480
Focal length	Focal length 0.5-3m , focus free , FOV 68°x52°
Flashlight	Yes (on/off/flash)
Image Display	
Display	3.5" LCD touchscreen display
Display Resolution	320 x 240
Image modes	IR, Visible, Picture-in-Picture, MIF
Color Palettes	6:Hot Iron, Black Heat, Heat Iron, White Heat, Medical, Arctic
Digital zoom	Smooth zoon, up to 8X
Temperature Measurement	
Measurement Range	-20℃-150℃ , 100℃-400℃ (Auto switching)
Accuracy	±2℃ or ±2%, whichever is greater (target temp ≥0℃, ambient temp is 15℃ ~ 30℃)
Measurement Spot	Center spot , and can add one removable measurement spot
Measurement Area	Can add one removable area measurment box
Auto Max & Min Temp Tracking	Full screen auto max & min temp. tracking / Analysis target (area) max & min temp. tracking
Full Screen Max & Min Temp. Alarm	Yes
Image Storage	
Storage Media	4G Internal memory , at least 500 sets of images
IR Image Format	Full Radiometric (JPG)
Visible Image	Yes
Connections & Communications	
USB	Type-C, for image data transmission with PC
WIFI	Yes, Wi-Fi enabled for data transmission
Mobile APP	Yes , and support Cloud Service
PC IR Analysis Software	Yes
Power system	
Battery Tpye	Built-in rechargeable li-thium battery, non- removable
Battery Operating Time	≥2 hours (when wifi-off)
Charging Time	≤1.5 hours
Environmental parameters	
Operating Temperature	-10℃~50℃
Storage Temperature	-40℃~70℃
Encapsulation	IP54, 1-meter drop test
Certification	CE, FCC, ROHS
Weight	240g
Size	133.05*87.31*24.1mm
Standard Accessories	Wristband, Charger, USB Cable, Carrying Bag, Quick Start Guide

B Series Tool-like Thermal camera

Rugged and durable, Simple Operation

Electric inspection and diagnosis
Building inspection and diagnosis
Mechanical equipment maintenance
Manufacturing process service

B series is an efficient, budget-friendly and completely equipped infrared camera. This robust and very handy high-tech system thanks to its intuitively learnable handling and user-friendly single hand operation, which makes it an ideal tool for troubleshooting electrical installations, mechanical components, buildings, process equipment, HVAC/R equipment and others.
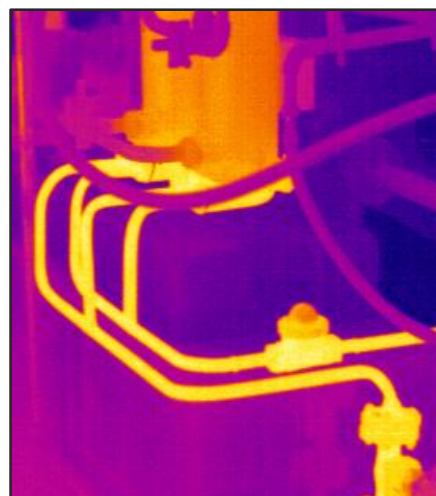
▼ Friendly UI, easy to use without training

▼ Affordable as entry level diagnostic tool

▼ Removable Large capacity Li-ion battery, 4 hour working time

▼ 3.5" large screen with no image cropping, high brightness screen to show image with no detailed information lost even outdoor or in highlight

▼ Rugged and compact design, metal internal structure

▼ Standard Micro USB interface for data transmission and charging

▼ Optional Wi-Fi connection with notebook or mobile

| Model	B160V	B256V	B320V
IR Imaging Performance			
IR resolution	160×120	256×192	320×240
Detector type	VOx/17μm/7.5~14μm		
Frame rate	25Hz/9Hz		
NETD	≤50mk		
Focal Length	5mm/F1.2	7mm/F1.1	7mm/F1.1
Field of view(FOV)	30°×23°	34.5°×26.5°	42.5°×32.5°
Spatial Resolution(IFOV)	3.30mrad	2.36mrad	2.33mrad
Min focus distance	1m	1m	1m
Focus	Foucus-free		
Visible Camera			
Resolution	640×480，Automatic		
Image Presentation			
Display	3.5" highlight LCD screen, 320×240		
Image modes	IR image，Visible image，MIF，PIP		
Digital zoom	×2，×4		
Color palettes	6:White Hot, Iron Red, Hot Iron, Arctic, Rainbow 1, Rainbow 2		
Measurement			
Temperature range	-20℃~350℃		
Accuracy	±2℃ or ±2%, whichever is greater (target temp ≥0℃, ambient temp is 15℃ ~ 30℃)		
Spotmeter	Center spot		
Auto tracking	Area Tmax/Tmin tracking		
Alarm	Area Tmax/Tmin alarms		
Storage			
Storage medium	Removable SD card（16G）		
Image format	JPG with temp info		
Video Streaming	Transferred to via USB		
Connections & Communications			
Interface	Micro USB (for real-time image/ video transmission)		
WIFI	Yes (for data transfer and camera control)		
Power System			
Battery	Rechargeable Li-ion battery, ≥4h, Automatic shut-down and sleeping mode		
Environmental Parameters			
Operating temp range	-10℃~50℃		
Storage temp range	-40℃~70℃		
Encapsulation	IP43，1m drop		
Weight	740g (batterry included)		
Size	258mm×98mm×90mm		
Standard Accessories	Li-ion battery, Power supply adapter (5V/2A), Adapter plug, Wrist strap, USB cable,Quick Start Guide, Data Download Card, SD card(16GB)		
Optional Accessories	Li-ion Battery,Camera carring pouch,Battery charger		

D Series Intelligent Thermal Camera

Intelligent Operation Affordable Price

Mechanical maintenance
Building diagnostic
Telecom equipment inspection
Electrical equipment inspection

D Series intelligent thermal camera is simple, compact and ergonomic. It equipped with 4-inch high-brightness touchscreen, Android operating system, user-friendly UI for easy operation. And every step has professional tips, so that the first user can become an expert quickly. With high IR resolution and various powerful functions, D series is the ideal thermal inspection tool for power inspection, equipment maintenance and building diagnostic applications.
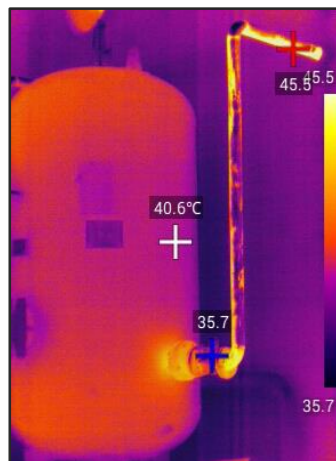
▼ 4" high light touch screen, all operation can be completed on the touch screen

▼ You can choose the proper lens for different occasions

▼ Built-in illuminator, take visible photos in the low lighting environment

▼ Removable SD card, Up to 32G storage capacity

▼ Wi-Fi communication, share IR images and findings immediately

▼ Connected with mobile terminal to take IR photo, to achieve multi screen control

Model	D192F	D384F	D192M	D384M	D384A
IR Imaging Performance					
IR resolution	192×144	384×288	192×144	384×288	384×288
Detector type	VOx/25μm/7.5~14μm				
Frame rate	25HZ				
NETD	50mk	45mk	50mk	45mk	40mk
Focal length	7mm/F1.1	19mm/F1.0	7mm/F1.1	19mm/F1.0	15mm/F1.1
Field of view(FOV)	37.8°×28.8°	28.4°×21.5°	37.8°×28.8°	28.4°×21.5°	35°×27°
Spatial Resolution(IFOV)	3.45mrad	1.29mrad	3.45mrad	1.29mrad	1.60mrad
Min focus distance	1m	1m	0.5m	0.5m	0.4m
Focus	Foucus-free		Manual		Electric/ Automatic
Lens identification	N/A		Automatic/ Manual		N/A
Optional lens					
Wide angle	N/A	N/A	N/A	8.8mm/F1.0/ 57°×45°/ 2.65mrad/0.3m	N/A
Tele	N/A	N/A	19mm/F1.0/ 14.4°×10.8/ 0.65mrad/1m	40mm/F1.2/ 13.7°×10.3/ 0.62mrad/1m	N/A
High temp	N/A	N/A	650℃~1500℃	650℃~1500℃	N/A
Visual Camera					
Visual Camera	Resolution:5MP/ 640×480, Alternative, Foucus-free, FOV 25°×19°				
Image Presentation					
Display	4" highlight LCD touch screen, 480×800, 24 bits				
Image modes	IR image/ Visual image MIF/ PIP				
Color Palettes	8:White Hot, Fulgurite, Iron Red, Hot Iron, Medical, Arctic, Rainbow 1, Rainbow 2				
Digital zoom	1.1~4				
Measurement					
Temperature range	-20℃~350℃		-20℃~150℃，100℃~650℃，650℃~1500℃(High temp lens is optional)		-20℃~150℃, 100℃~650℃
Accuracy	±2℃ or ±2% of reading for ambient temperature 15℃ to 35℃ and object temperature above 0℃				
Measurement	Spotmeter:5; Line:2; Area:5				
Auto tracking	1. Max/ Min temp spot of full screen；2. Max/ Min temp spot of analysis object				
Alarm	Max temp alarm; Min temp alarm				
Storage					
Image storage	In camera and TF card, JPG with temp info				
Video format without temp info	H.264 with frame rate 25Hz (audio signal included)				
Video format with temp info	.irgd with frame rate 25Hz (audio signal excluded)				
Video Streaming	Yes, transferred to PC or mobile via USB or Wi-Fi				
Connections & Communications					
Data communication interface	MICRO USB 2.0, MICRO HDMI, Power(12V), TF card(Standard 16G, up to 32G)；WiFi/Laser				
Bluetooth	N/A				Yes
Power system					
Battery type/Operating time	Rechargeable Li-ion battery (7.2V), ≥4h; 4h in camera, 5h in dual-bay charger; Automatic shut-down and sleeping mode				
Environmental Parameters					
temperature range	Operating: -10℃~50℃; Storage: -40℃~70℃				
Encapsulation	IP54				
Certification	CE, FCC, ROHS				
Weight	735g	735g	840g	840g	735g
Dimensions(mm)	274×97×78	274×97×78	274×106×78	274×110×78	274×91×78
Standard Accessories	Li-ion battery, Power supply adapter, Adapter plug, Wrist strap, USB cable, HDMI cable, Quick Start Guide, User Manual, Data Download Card, Capacitive screen gloves, TF card (16GB), Hard transport case				
Optional Accessories	Li-ion battery, Pouch, Battery charger, Tripod mount interface, Sunshield, Bluetooth earphone, Extended lens				

C Series High Performance Thermal Camera

Won two different Industrial Design Awards

Electric Power Inspection

Science education Building

diagnosis

HealthCare

C series thermal camera is the high performance inspection device superior to any other thermal imaging products in its class. High IR resolution up to 640x480 allows the electrical and mechanical users to pinpoint any overheating quickly and take accurate temperature measurement intuitively on a 5-inch 720P high-brightness LCD display. The ergonomic rotating LCD and lens design makes it comfortable to aim up at any overhead components. Based on an open Android operating system design, it works not only as a thermal camera but also a versatile mobile infrared thermal imaging application platform.

- ▼ With high IR resolution up to 640×480, C series has superior image quality and clarity for greater accuracy inspection
- ▼ With a rotatable design, the display rotates 270° and the lens rotates 70° upwards for easy viewing angle.
- ▼ Android based operation system with open platform for various mobile APP developments and convenient program updating
- ▼ Powerful onboard analysis and reporting capabilities
- ▼ Multiple image presentation including IR, visible, PIP and MIF
- ▼ Wi-Fi connectivity enable for data transmission and remote control
- ▼ Wide measurement range up to 2000°C

Model	C400M	C400	C640	C640Pro
IR Imaging Performance				
IR resolution	384×288	384×288	640×480	
Detector type	VOx/25μm/7.5~14μm			
Frame rate	25Hz/9Hz			
NETD	40mk	45mk	40mk	30mk
Focal length				
Field of view(FOV)	21.7°×16.4°		24.6°×18.5°	
Spatial Resolution(IFOV)	0.99mrad		0.67mrad	
Min focus distance	0.4m		0.3m	
Focus	Motor-drive/Auto			
Optional lens				
Wide angle	N/A	13mm/F1.1/ 40.5°×31.0°/ 1.84mrad/0.15m	13mm/F1.1/ 45.4°×34.9°/ 1.24mrad/0.1m	
Telephoto	N/A	55mm/F1.1/ 10.0°×7.5°/ 0.45mrad/2m	55mm/F1.1/ 11.3°×8.5°/ 0.31mrad/1.5m	
Ultra Telephoto	N/A	85mm/F1.2/ 6.7°×5.1°/ 0.29mrad/4m	85mm/F1.2/ 7.3°×5.5°/ 0.2mrad/4m	
Macro lens（FOV/ IFOV/ Working distance）	N/A	8°×6°/37.5um/ 67mm	14°×11°/37.5um/ 67mm	
High temp	N/A	-20℃~150℃，150℃~800℃，800℃~2000℃		
Image Presentation				
LCD Display	5",1280×720 High Light Touch Screen			
Viewfinder	1280×960 LCOS Screen			
Brightness Contrast	Auto/Manual/Fixed			
Image Mode	IR image/Visual image/PIP/MIF			
Palette	8		10	
Digital Zoom	1.1~4x	1.1~4x continuously	1.1~10x continuously	
Panoramic Mosaic	N/A	Yes	N/A	Yes
Measurement				
Measurement Range	20℃~60℃	Filter 1:-20℃~150℃;Filter 2:150℃~800℃;Optional 2000℃		
Accurancy	≤±0.4℃ (32℃~38℃)	±2℃~±2%	Filter 1:±1℃~±1%; Filter 2:±2℃~±2%	
Spot	5 spots		8 spots	10 spots
Line	5 lines		8 lines	10 lines
Area	5 areas		8 areas	10 areas
Analysis Info Storage	Saved with image(spot,line,areas)			
Auto Tracking	either max or min		both max and min	
Isotherm	Upward/Downward		Upward/Downward and Internal	
Temperature Alarm	Visual and Voice			
Storage				
Image Format	JPG or with raw data			
Image Internal Storage	16G (up to 32G)			
Report Creation	PDF format,Wi-Fi print			
Video Format	H.264(with temperature information)			
Video Internal Storage	Manual		Internal storage	
Dual-path Recording	N/A		Yes	
Other				
Hardware	5MP Visual camera;Illuminator;laser;Wi-Fi; Microphone(Volume adjustable);Speaker(Volume adjustable); Digital compass;GPS;Light sensor;Bluethooth(only C640 Pro)			
Interface	Micro USB 2.0,SD card,Gigabit Ethernet,Tripod,Mini HDMI			
Battery	Rechargeable Li-ion Battery;Operating more than 4 hours ;Sleeping mode			
Working Temperature	15℃~35℃	- 15℃~50℃		
Storage Temperature	- 40℃~70℃			
Encapsulation	IP54			
Weight	1350g			
Size	206mm×145mm×135mm			
Standard Accessories	Li-ion battery,Power supply adapter, Adapter plug (5 pcs), Shoulder strap,USB cable, HDMI cable, Network cable, Quick Start Guide, User Manual, Data Download Card, SD card(16G), Hard transport case			
Optional Accessories	Li-ion battery, Pouch, Battery charger, Bluetooth earphone, Extended lens, Lens bag			

Handheld Thermal Cameras Selection Guide

	T Series		P Series	B Series			D Series
Model	**T120**	**T120V**	**P120V**	**B160V**	**B256V**	**B320V**	**D192F**
IR Resolution	120x90	120x90	120x90	160×120	256×192	320×240	192×144
NETD	60mk	60mk	60mk	≤50mk	≤50mk	≤50mk	50mk
FOV	50°×38°	50°×38°	50°×38°	30°×23°	34.5°×26.5°	42.5°×32.5°	37.8°×28.8°
IFOV	7.6mrad	7.6mrad	7.6mrad	3.30mrad	2.36mrad	2.36mrad	3.45mrad
Standard Lens	2.28mm	2.28mm	2.28mm	5mm	7mm	7mm	7mm
Wide angle	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Macro lens	N/A	N/A	N/A	N/A	N/A	N/A	N/A
High temp	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Focus	Focus-free	Focus-free	Focus-free	Focus-free	Focus-free	Focus-free	Focus-free
Visible Camera	N/A	320×240 , Focus-free	320×240 , Focus-free	640×480 , Focus-free	640×480 , Focus-free	640×480 , Focus-free	Resolution:5MP , Focus-free
Display	2.4 inch, LCD display	2.4 inch, LCD display	3.5" LCD touchscreen	3.5" highlight LCD screen, 320×240	3.5" highlight LCD screen, 320×240	3.5" highlight LCD screen, 320×240	4" highlight LCD touch screen
Image Model	IR	IR,Visible,PIP	IR, Visible,PIP, MIF	IR, Visible,PIP, MIF	IR, Visible,PIP, MIF	IR, Visible,PIP, MIF	IR, Visible,PIP, MIF
Temperature Range	-20℃-150℃ , 100℃-400℃（Auto switching）	-20℃-150℃ , 100℃-400℃（Auto switching）	-20℃-150℃ , 100℃-400℃（Auto switching）	-20℃-350℃	-20℃-350℃	-20℃-350℃	-20℃~350℃
Accuracy	±2℃ or ±2%, whichever is greater（target temp ≥0℃, ambient temp is 15℃ ~ 30℃）						
Measurement Spot	Center spot	Center spot	1	Center spot	Center spot	Center spot	5
Measurement Line	N/A	N/A	N/A	N/A	N/A	N/A	2
Measurement Area	N/A	N/A	1	N/A	N/A	N/A	5
Storage	TF card（Standard 16G）	TF card（Standard 16G）	4G	Removable SD card（16G）	Removable SD card（16G）	Removable SD card（16G）	TF card
Laser	YES	YES	N/A	N/A	N/A	N/A	YES
WIFI	N/A	YES	YES	YES	YES	YES	YES
Bluetooth	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	D Series				C Series			
Model	**D384F**	**D192M**	**D384M**	**D384A**	**C400M**	**C400**	**C640**	**C640P**
IR Resolution	384×288	192×144	384×288	384×288	384×288	384×288	640×480	640×480
NETD	45mk	50mk	45mk	40mk	40mk	45mk	40mk	30mk
FOV	28.4°×21.5°	37.8°×28.8°	28.4°×21.5°	35°×27°	21.7°×16.4°	21.7°×16.4°	24.6°×18.5°	24.6°×18.5°
IFOV	1.29mrad	3.45mrad	1.29mrad	1.60mrad	0.99mrad	0.99mrad	0.67mrad	0.67mrad
Standard Lens	19mm	7mm	19mm	15mm	25mm	25mm	25mm	25mm
Wide angle	N/A	19mm	8.8mm/40mm	N/A	N/A	13mm/55mm/85mm	13mm/55mm/85mm	13mm/55mm/85mm
Macro lens	N/A	N/A	N/A	N/A	N/A	YES	YES	YES
High temp	N/A	YES	YES	N/A	N/A	YES	YES	YES
Focus	Focus-free	Manual	Manual	Electric/Automatic	Electric/ Automatic	Electric/ Automatic	Electric/ Automatic	Electric/ Automatic
Visible Camera	Resolution:5MP , Focus-free				Resolution:5MP , Focus-free			
Display	4" highlight LCD touch screen				5",1280×720 High Light Touch Screen			
Image Model	IR, Visible,PIP, MIF				IR, Visible,PIP, MIF			
Temperature Range	-20℃~350℃	-20℃~150℃ , 100℃~650℃ , 650℃~1500℃(High temp lens is optional)	-20℃~150℃ , 100℃~650℃ , 650℃~1500℃(High temp lens is optional)	-20℃~150℃, 100℃~650℃	20℃~60℃	-20℃~150℃,150℃~800℃,可选2000℃	-20℃~150℃,150℃~800℃,可选2000℃	-20℃~150℃,150℃~800℃,可选2000℃
Accuracy	±2℃ or ±2%, whichever is greater（target temp ≥0℃, ambient temp is 15℃ ~ 30℃）			≤±0.4℃(32℃-38℃)	±2℃~±2%	±2℃~±2%	Filter 1:±1℃~±1%; Filter 2:±2℃~±2%	Filter 1:±1℃~±1%; Filter 2:±2℃~±2%
Measurement Spot	5	5	5	5	5	5	8	10
Measurement Line	2	2	2	2	5	5	8	10
Measurement Area	5	5	5	5	5	5	8	10
Storage	TF card（Standard 16G, up to 32G）				SD card 16G (up to 32G)			
Laser	YES				YES			
WIFI	YES				YES			
Bluetooth	N/A	N/A	N/A	YES	N/A	N/A	N/A	YES

* Technical parameters are subject to change without notice. For the latest information, please visit our website: www.guideir.com

PC Analysis Software
Professional & Full-featured

Mobile APP
Smart & Convenient

PC "IR Analyser" exclusive analysis software creates comprehensive analysis and processing of the infrared thermal image taken by the Guide Thermal Imaging Cameras, and realize unified management of data information. IR Analyser featured with user-friendly UI, powerful functions, and simplified operation and creates analysis reports automatically.

With Wi-Fi connectivity, mobile APP "Thermography" let you import the images and videos from the cameras to your mobile devices (smartphones or tablets) for processing, analyzing, generating reports and sharing with others. It also enables remote control to compete the basic operations of the thermal camera on the mobile app, such as auto focus, digital zoom, shutter setting, image mode switching, color palettes switching and more.

Various images/videos resources

- WiFi SD card import
- FTP download
- USB transfer from camera internal storage
  or any other mobile device.

Video Processing

- Live video stream or avi/irv video replay
- Max/Min temperature tracking
- Add or delete analysis objects on video

Real-time Video Preview

Stream live video from the thermal camera, and realize full screen max and min temperature tracking.

Image Analysis

- Image enhancement such as image fusion, palette/level span adjustment etc
- Various analysis objects add-ons such as spots, lines, areas, delta-T etc
- 3D image display, histogram/temp profile presentation, image geographic info display
- Add text notes and voice notes

Remote Control

Control the thermal camera by mobile APP, such as adding analysis objects, taking photos, recordings, etc., can save pictures and videos to mobile albums.

Report generating in PDF or WORD format

- A variety of professional report format pre-defined
- Edit freely in the pre-defined report format
- Customize your own preferred report format
- Submit the report to accomplish your inspection work

Image Analysis and Editing

Analyze thermal images, add analysis objects, modify image information, add notes (include the text notes), photo notes, voice notes, and graffiti notes.

Preference settings

- Multi-languages selection
- Temp/distance unit setting
- File folder routine etc

Report generation and sharing

Support generating PDF reports, sending emails, sharing and report printing for thermal images, etc.
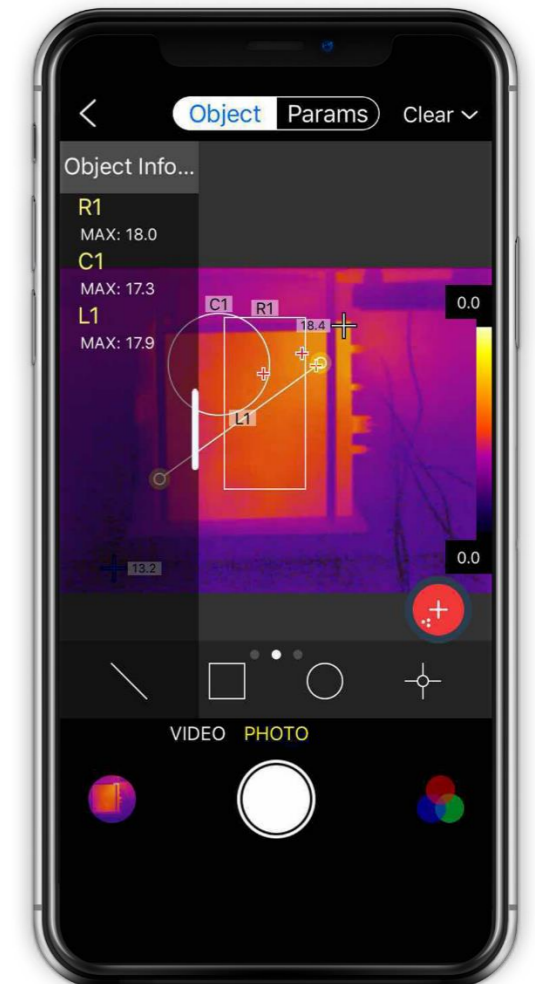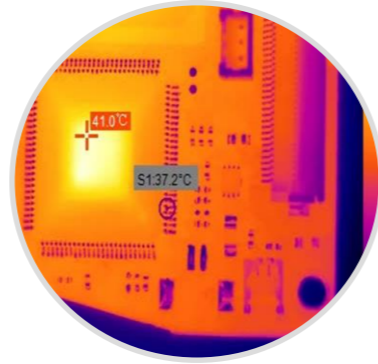
▶ Applications
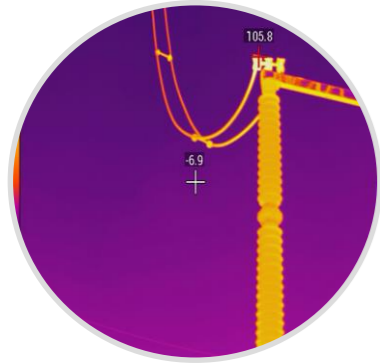
Power industry
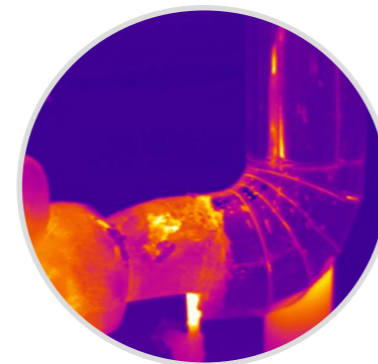

Environmental protection

Industrial automation

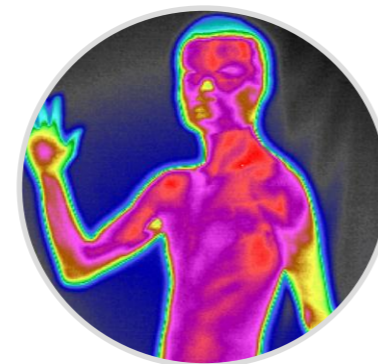Inspection and quarantine

Building diagnostic

Petrochemical industry

Consumer electronics

Smart home

Medical