

Professional Tools Thermal Imaging Cameras

CATALOG

Guide Sensmart



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 m². 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.

Company profile

Established in 2016, Guide Sensmart is a comprehensive infrared imaging solution supplier with 20 years' experience in design, R&D, manufacturer and sales of infrared thermal imaging products.

At present, Guide Sensmart's thermal imaging products are applied in outdoor observation, security and surveillance, law enforcement, firefighting and rescue, body temperature screening, industrial inspection, industrial automation, smart home and consumer electronics and more.

Key Advantage

Technology

Fully localized thermal sensor R&D and production

Service

Product Applications and Professional Service for 20 Years

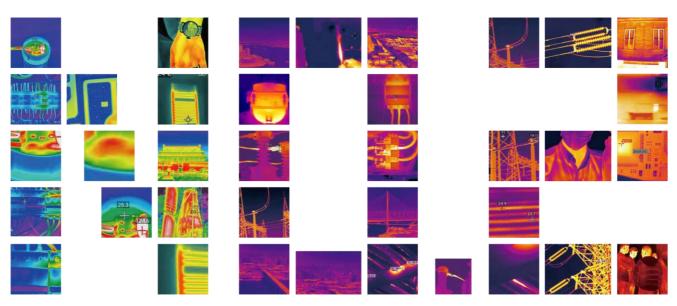
Quality

500,000 units with quality assurance per year

Innovation

Customer-centered Innovation With Over 120 Patents

Guide ranks Top 2 in the global infrared thermal imaging market



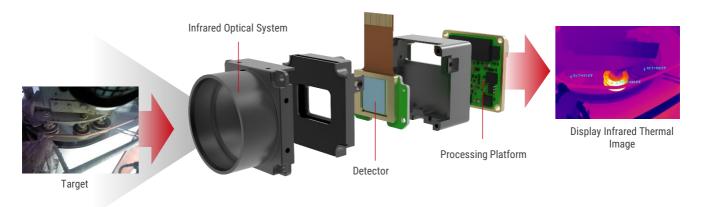
Technical principles of Thermal Camera

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 0.78µm to 1000µm, it is a kind of in-visible light that wavelength longer than red light. Sunlight Electromagnetic Wave 7.5um 1µm Three infrared bands that can pass through the atmosphere In-visible light In-visible light Visible light Cosmic ray Gamma ray X-ray Infrared ultra-violet light light 0.78µm 1000µm

What is Infrared Camera?

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.



Basic Principle

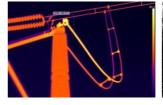
Thermal imaging technology is a kind of passive, non-contact detection and recognizing technology.

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.



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.



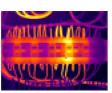
Efficient and time-saving: The general view of IR image will display the temperature's distribution clearly. In that case, the operator could inspect the large area very quick, the inspection time are reduced to great extents.



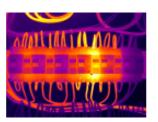
Safe and accurate: Temperature reading could be accomplished passively and accurately even when the observing target is far away from the thermographic camera. This non-contact inspection way ensures operator's safety if in tough working environment.

IR Detector Resolution

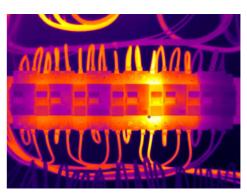
The higher the resolution of the detector, the more pixels and temperature points of the thermal image can be measured, and smaller targets can be measured and further distances can be observed.







384×288px



640×480px

How to choose a Thermal Camera

	How Far/How Small	How Clear	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?

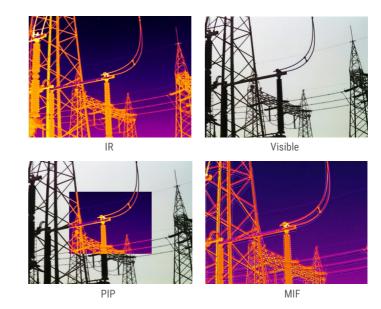
High Quality

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.

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.







CE F© RoHS

Super-resolution reconstruction

Super-resolution reconstruction is to enhance the resolution of the imaging system by a specific algorithm, which can increase the thermal image pixels by 4 times, and achieve high-quality thermal imaging effects.

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 quaranteed.

Best Service



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.

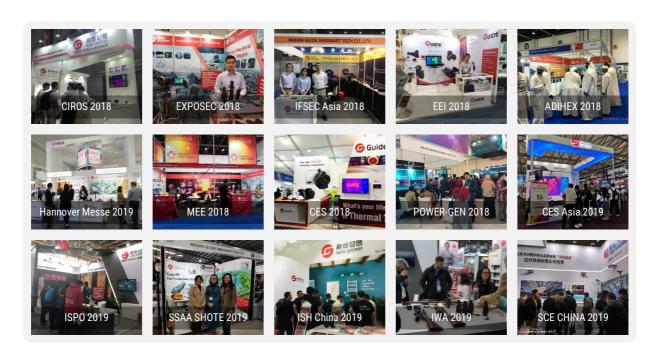
After-sale Service

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 subsidiaries company Eunir in Belgium and Guide Sensmart Tech GmbH in Germany are dedicated to provide much more effective service and technical support to the overseas clients.

Marketing and distributing over 70 countries in the world





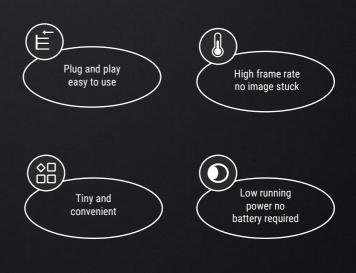
Transform your smartphone into a thermal camera

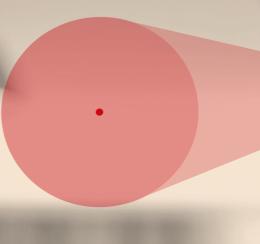


Introduce

MobIR Air transforms the smartphone into a thermal camera. When connect it to a smartphone, the MobIR Air allows you to see the world which is invisible with your eyes. It can find and fix the HVAC issues quickly and accurately, detect building problems effectively and safely, test the electrical faults and it can be also used for patrol at night.

Name	MobIR Air
Resolution	120×90
Pixel size	17µm
Field	50°
Frame rate	25Hz
Power consumption	<150mW
Temp. Range	-20°C ~120°C
Weight	About 20g
Size	50mm×14mm×18mm
Color	Dark Grey Silver Golden
Interface	iOS: Lightning
	Android: USB Type-C







For Traveling

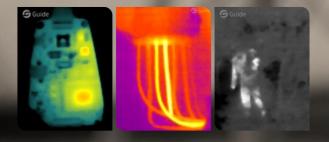
Find Hidden Camera

To protect your privacy while traveling



For Home

- HVAC Inspection
- Water Pipe Leak Detection
- Electrical Cabinet Inspection







For Work

- Electrical Board
- Computer Over-heat Detection
- Electronic Product Over-heat Test



The World's First AutoFocus Thermal Imager for Smartphone





Introduce

MobIR 2 series is a new generation of infrared thermal imager for smartphone launched by Guide sensmart. Built-in the world's first autofocus WLP infrared module, with higher resolution and performance comparable to professional thermal imaging cameras. This product allows you to see things that you can't see with the naked eye, It can realize real-time temperature measurement, night vision, photography, video and other functions through the mobile phone APP. It is an all-round partner for your daily work, home life and adventure travel.

Features and Benefits

- o 256x192 resolution, Autofocus, Clearly no matter near or far.
- Type-C interface, Battery-free design, plug and play.
- o ±2°C industrial-grade temperature measurement accuracy, comparable to professional testing tools.
- Human temperature measurement mode supports simultaneous temperature measurement by multiple people, which is efficient and safety.
- Outdoor night vision recognition range is more than 100 meters, farther and clearly.
- o Multifunctions, complete APP functions, share at any time

- House Inspection
- o Privacy Protection
- o Outdoor Night Vision
- Fever Scanner
- Evaluation tool
- Scientific research





Product model	MobIR 2T	MobIR 2S				
Infrared detector						
Detector type	VOx					
Infrared resolution	256 × 192	2@12µm				
Wavelength range	7.5 to	14µm				
Frame rate	25	Hz				
Lens						
Focal length	3.2 mm	7 mm				
Field of view	56°	25°				
Focusing mode	Automatic	/ Electric				
Temperature measurement						
Measurement range	Industrial measurement: -20°C to 150°C; Human body: 20°C to 50°C	-20°C to 150°C				
Measurement accuracy	Industrial measurement range: ±2°C or ±2%, whichever is greater; Human body: ±0.5°C (Temperature Measurement Distance: 0.5-2.5m)	±2°C or ±2%, whichever is greater				
APP Functions	'					
Photo	Avail	able				
Video	Avail	able				
Power system						
Power consumption	5000	mW				
Environmental parameters						
Working temperature	-10°C	~60°C				
IP rating	IPA	43				
Drop	1m drop test (without	the type-c interface)				
Certification	CE, FCC	c, RoHS				
Physical parameters						
External interface	USB Type	e-C male				
Weight	≤35 g	≤40 g				
Size (L × W × H)	59 × 24 × 16 mm	59 × 24 × 20 mm				
Color	Silver,	/Grey				
Standard	A device, Carrying box, Wrist strap, User manual, Certificate of approval					

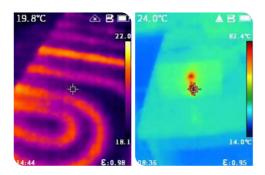
TSETES Entry-level Portable Thermal Camera

See the heat of 10, 800 pixels in 1 second



Introduce

T 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.



Features and Benefits

- 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

- Building Diagnostics
- HVAC Inspection

- Facilities maintenance
- Electrical Application

Product model	T120	T120V				
Imaging and optics						
Detector type	V	'Ox				
Infrared resolution	120 × 90@17μm					
Wavelength range		ο 14μm				
Focal length		3 mm				
Field of view		× 38°				
IFOV		imrad				
Minimum object distance		5 m				
D:S		30:1				
NETD) mK				
Infrared frame rate		z / 9 Hz				
Focusing mode		is-free				
Measurement and analysis	1 000					
Measurement range	Support auto-switching: -20	°C to 150°C, 100°C to 400°C				
Measurement accuracy		ichever is greater				
Analyzed target		t and 3 areas				
Analyzed target	·					
Tracking / Alarm		ximum or minimum temperature tracking of analyzed target; full hreshold alarm (image)				
Temperature measuring parameters	Emissivity, reflected ten	nperature, target distance				
Image display						
Display screen	2.4	LCD				
Digital camera	1	70,000 pixels				
Image mode	IR	IR, VIS and PIP				
Image adjustment	Auto	omatic				
Color palettes	Iron Red, White Hot, Arctic, R	ainbow 2, Hot Iron, Rainbow 1				
Functions						
Shooting	Ph	noto				
Storage and transmission						
Storage media	TF card (16 GB	and up to 32 GB)				
Image storage	JPG with	temp info				
External interface	TYPE-C, TF card slot, UN	C ¼"-20 (tripod mounting)				
Laser	645~655nm, Class 2 laser, <1mW	, only indicating the measured target				
WIFI	1	Yes, it can be connected to the mobile terminal for image transmission				
Power system						
Battery type	Rechargeable lithium-io	n battery, non-removable				
Battery working time	≥8 hours	≥5 hours				
Power management		n and sleep mode				
Charging mode		ger; Capable of charging while using				
Charging time		arge in 2.5 hours				
Environmental parameters	1553.1811.511					
Working temperature	-10°C	to 50°C				
Storage temperature		to 70°C				
IP rating		254				
Drop		rop test				
Certification		st, Vibration test, Shock test, Impact test, UN38.3, MSDS				
Physical parameters	oz, roo, nono, noo, ii ot, ziii diop test, baiiip fieat te	- Taradari teot, oriook teot, impuot teot, orioo.o, mood				
Weight	.0	50 g				
Size (L × W × H)		5 × 76 mm				
Software kit		noTools				
Standard	A device, Wrist strap, Quick Start Guide, Power adapter, Adapte	er plug, Type-C USB cable, Data download card, TF card (16 GB) ,				
Options		of approval				

PC Series Tool-like Thermal camera

Clearer And Longer Operating



Introduction

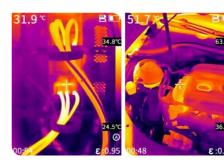
PC Series, Tool-like Handheld Thermal Camera, With excellent performance in image quality and charging battery life, This Thermal Camera adopts 256x192 IR Detector and 200W pixel visible light. Adopts the New SharpIR composite image enhancement technology, it can provide you with detailed infrared thermal imaging and dual-light fusion images to help you find potential faults more quickly.

Application

- Building Diagnostics
- o HVAC Inspection
- o Facilities maintenance
- o Electrical Application

Features and Benefits

- o Adopts 256x192 infrared module with Excellent imaging quality
- o 16H Operating time, 2.5H fast charge, easy to cope with two days of work
- o Turn on in 1 second And Use, full-frame temperature measurement
- o Rugged and Durable, Resistant to 2 meters drop, IP54 Protection Rating
- o 4 image modes, And all palettes can display the temperature
- o Wide temperature measurement range, -20°C~550°C, Automatic Switch
- o Type C interface, Easy to transfer data And support PC screen projection



Product model	PC210	PC230
Imaging and optics		
Detector type	V	0x
Infrared resolution	256 × 19	12@12µm
Wavelength range	7.5 to	14µm
Focal length	3.2 mm	7 mm
Field of view	56° × 48°	25° × 19°
FOV	3.75mrad	1.71mrad
Minimum object distance	0.3 m	0.5 m
D:S	266:1	585:1
NETD	≤45 mK	≤50 mK
nfrared frame rate	25 Hz	/ 9 Hz
ocusing mode	Focus-free	Automatic
leasurement and analysis		
Measurement range	Support auto-switching: -20	°C to 150°C, 100°C to 550°C
Measurement accuracy	±2°C or ±2%, whi	ichever is greater
nalyzed target	Center spot	and 3 areas
Fracking / Alarm		rimum or minimum temperature tracking of analyzed target; full old alarm (image and flash)
emperature measuring parameters	Emissivity, reflected tem	perature, target distance
mage display		
Display screen	2.4"	LCD
ligital camera	2	MP
mage mode	IR, VIS, M	IF and PIP
mage adjustment	Automatic, semi-	automatic, manual
Color palettes	Iron Red, White Hot, Arctic, R	ainbow 2, Hot Iron, Rainbow 1
unctions		
Chooting	Ph	oto
Storage and transmission		
torage media	TF card	(32 GB)
mage storage	JPG with	temp info
ixternal interface	TYPE-C, TF card slot, UN	C ¼"-20 (tripod mounting)
aser	645~655nm, Class 2 laser, <1mW,	only indicating the measured target
ower system		
attery type	Rechargeable lithium-ion	n battery, non-removable
Battery working time	≥16	hours
Power management	Timed shutdown	and sleep mode
Charging mode	TYPE-C charging; PC/portable charging	ger; Capable of charging while using
Charging time	90% of full cha	rge in 2.5 hours
Environmental parameters		
Vorking temperature	-15°C	to 50°C
Storage temperature	-40°C	to 70°C
P rating	IP	54
Эгор	2m dr	op test
Certification	CE, FCC, ROHS, KCC, IP54, 2m drop test, Damp heat tes	st, Vibration test, Shock test, Impact test, UN38.3, MSDS
Physical parameters		
Neight	≤37	75 g
Size (L × W × H)	194 × 61.	5 × 76 mm
Software kit	Therm	oTools
Standard	A device, Wrist strap, Quick Start Guide, Power adapter, Adapte Certificate	r plug, Type-C USB cable, Data download card, TF card (32 GB) of approval

P Series Pocket-sized Thermal Camera

Compact Size, Professional Grade



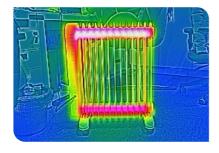
Introduce

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.

Features and Benefits

- -20°C-400°C wide measurement range

 Auto switching between-20°C-150°C and 100°C-400°C
- Reasonable Layout and Good Ergonomic Design
 No interfere between lens area and grip area
- o 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.



- o Building Diagnostics
- O HVAC Inspection
- Facilities maintenance
- Electrical Application

Product model	P120V
Imaging and optics	
Detector type	VOx
Infrared resolution	120 × 90@17μm
Wavelength range	7.5 to 14µm
Focal length	7.3 to 14µm 2.28 mm
Field of view	50° × 38°
IFOV	7.46mrad
Minimum object distance	0.5 m
D:S	130:1
NETD	≤60 mK
Infrared frame rate	15 Hz / 9 Hz
Focusing mode	Focus-free
	1.1x to 8x
Digital zoom	1.1X (0 6X
Measurement and analysis	Cuppert suite suits bing: 00°C to 150°C 100°C to 400°C
Measurement range Measurement accuracy	Support auto-switching: -20°C to 150°C, 100°C to 400°C ±2°C or ±2%, whichever is greater
,	
Analyzed target	Spot × 1, Area × 1 Full screen maximum/minimum temperature tracking; The maximum or minimum temperature tracking of analyzed target; full screen
Tracking / Alarm	temperature threshold alarm (image)
Temperature measuring parameters	Emissivity, reflected temperature, target distance
Image display	
Display screen	3.5" LCD
Digital camera	0.3 MP
Image mode	IR, VIS, MIF and PIP
Image adjustment	Automatic, semi-automatic, manual
Color palettes	White Hot, Black Hot, Iron Red, Hot Iron, Medical, Arctic
Functions	
Shooting	Photo
Storage and transmission	
Storage media	Local storage (4 GB)
Image storage	JPG with temp info
External interface	TYPE-C, UNC ¼"-20 (tripod mounting)
WIFI	Yes, it can be connected to the mobile terminal for image transmission
Power system	
Battery type	Rechargeable lithium-ion battery, non-removable
Battery working time	≥2 hours
Power management	Timed shutdown and sleep mode
Charging mode	TYPE-C charging; PC/portable charger; Capable of charging while using
Charging time	90% of full charge in 1.5 hours
Environmental parameters	
Working temperature	-10°C to 50°C
Storage temperature	-40°C to 70°C
IP rating	IP54
Drop	1m drop test
Certification	CE, FCC, ROHS, KCC, IP54,1m drop test, Damp heat test, Vibration test, Shock test, Impact test, UN38.3, MSDS
Physical parameters	
Weight	≤240 g
Size (L × W × H)	133.1 × 87.4 × 24.1mm
Software kit	ThermoTools
Standard	A device, Wrist strap, Carrying bag, Quick Start Guide, Power adapter, Adapter plug, Type-C USB cable, Data download card, Certificate of
	approval
Options	Tripod

PF SCIES Pocket-sized Thermal Camera

Operating with great facility



Introduce

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 and Benefits

- o The 256x192 infrared detector produces crisp imagery
- o The IR, VIS, PIP and MIF reveal temperature details
- o -20°C to 550°C temperature range with auto-switching capability
- o Laser ranging and intelligent area calculation of rectangle objects
- o Fast image lookback and search for desired functions
- o 4 hours of operation and standard Type-C for fast charging

- o Electrical inspection
- o Automobile repair
- Building diagnostics
- HVAC detection

Product model	PF210
Imaging and optics	
Detector type	VOx
Infrared resolution	256 × 192@12μm
Wavelength range	7.5 to 14µm
Focal length	3.2 mm
Field of view	56° × 48°
IFOV	3.75mrad
Minimum object distance	0.3 m
D:S	266:1
NETD	≥00.1 ≤60 mK
Infrared frame rate	25 Hz / 9 Hz
Focusing mode	Focus-free
Digital zoom	1.1x to 8x
Measurement and analysis	0 1 1 1 0000 1 15000 10000
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
Tracking / Alarm	Full screen maximum/minimum temperature tracking; The maximum or minimum temperature tracking of analyzed target; full screen temperature threshold alarm (image and flash)
Temperature measuring parameters	Emissivity, reflected temperature, target distance
Image display	
Display screen	3.5" LCD
Digital camera	5 MP
Image mode	IR, VIS, MIF and PIP
Image adjustment	Automatic, semi-automatic, manual
Color palettes	White Hot, Black Hot, Iron Red, Hot Iron, Rainbow, Arctic
Functions	
Shooting	Photo
Others	Customized physical button×2
Storage and transmission	
Storage media	Local storage (16 GB)
Image storage	JPG with temp info
External interface	TYPE-C, UNC %"-20 (tripod mounting)
Laser	645~655nm, Class 2 laser, <1mW, indicating the measured target and laser ranging
WIFI	Yes, it can be connected to the mobile terminal for image transmission
Power system	red, it dan be dominated to the modific terminal for image transmission
Battery type	Rechargeable lithium-ion battery, non-removable
Battery working time	≥4 hours
Power management	Timed shutdown and sleep mode
Charging mode	TYPE-C charging; PC/portable charger; Capable of charging while using
Charging time	90% of full charge in 2.5 hours
Environmental parameters	1000 to 5000
Working temperature	-10°C to 50°C
Storage temperature	-40°C to 70°C
IP rating	IP54
Drop	1m drop test
Certification	CE, FCC, ROHS, KC, Anatel, IP54, 1m drop test, Damp heat test, Vibration test, Shock test, Impact test, UN38.3, MSDS
Physical parameters	
Weight	≤296 g
Size (L × W × H)	138 × 89 × 34.4 mm
Software kit	ThermoTools
Standard	A device, Wrist strap, Carrying bag, Quick Start Guide, Power adapter, Adapter plug, Type-C USB cable, Data download card, Certificate of approval
Options	Tripod
	The control of the co

D Series Intelligent Thermal Camera

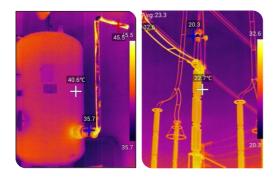
Intelligent Operation Affordable Price





Introduce

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.



Features and Benefits

- o 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
- o Removable SD card, Up to 32G storage capacity
- o Wi-Fi communication, share IR images and findings immediately
- Connected with mobile terminal to take IR photo, to achieve multi screen control

- Mechanical maintenance
- o Building diagnostic
- Telecom equipment inspection
- o Electrical equipment inspection

Product model	D192F	D192M	D384F	D384M	D384A
Imaging and optics					
Detector type			VOx		
Infrared resolution	192 × 1	144@25μm		384 × 288@25µ	
Super resolution technology		1		Yes, Upgrade to 768	3 × 5/6
Wavelength range	-	7	7.5 to 14µr		4.5
Focal length		7 mm ° × 29°		9 mm	15 mm 35° × 27°
Field of view IFOV		7 x 29°		° × 22° 32mrad	35° × 27° 1.67mrad
	1 m	0.5 m	1 m	0.5 m	0.4 m
Minimum object distance D:S		289:1		775:1	625:1
NETD		50 mK		45 mK	625.1 ≤40 mK
Infrared frame rate	2.	JU IIIK	25 Hz / 9 H		240 IIIK
Focusing mode	Focus-free	Manual	Focus-free	Manual	Automatic / Electric
Digital zoom	1 0000 1100		1.1x to 4x		/ tatomatio / Eloculo
Shot recognition	1	Manual	1	Manual	/
Measurement and analysis				-	-
Measurement range	-20°C to 350°C	-20°C to 150°C, 100°C to 650°C, Optional 650°C to 1500°C (High temperature lens is required)	-20°C to 350°C	-20°C to 150°C, 100°C to 650°C, Optional 650°C to 1500°C (High temperature lens is required)	-20°C to 150°C, 100°C to 650°C
Measurement accuracy			±2°C or ±2%, whicheve	er is greater	
Analyzed target			Spot × 5, Line × 2,	Area × 5	
Tracking / Alarm	Full screen maximum, r	minimum and average tempera			perature tracking of analyzed target; full
			screen temperature thresho		
Isothermals			Available		
Temperature measuring		Emissivity. re	flected temperature, dew p	oint, target distance, humidity	
parameters					
Image display			4" L CD		
Display screen Digital camera			4" LCD 5 MP		
Image mode			IR, VIS, MIF and	4 DID	
Image adjustment			Automatic, semi-autom		
Color palettes		White Hot. Fulgur	· · · · · · · · · · · · · · · · · · ·	lical, Arctic, Rainbow 1, Rainbo	ow 2
Functions		····ito ··ot; · aigai	,,,,	ioui, / ii otio, rtainoon 1, rtainoo	
Shooting		Photo	/Video		Photo (image stitching)/ Video
Storage and transmission					
Storage media		Local sto	orage (16 GB) and TF card	(16 GB and up to 128 GB)	
Image storage			JPG with temp		
Video storage	MP4 form	nat (without temp info) can be) for temperature analysis
External interface			icro USB, Micro HDMI, DC (
Laser				indicating the measured targe	
Audio				ones and speakers respectivel	-
WIFI Bluetooth		res, it can be connected	i to the mobile terminal for	r image and real-time video tra	Available
Power system			<i>I</i>		Available
Battery type			Lithium-ion recharge	able battery	
Battery working time			≥4 hours	,	
Power management			Timed shutdown and	sleep mode	
Charging mode		The device c	an be charged through des	ktop charger after shutdown.	
Charging time			5 hours		
Environmental parameters					
Working temperature			-10°C to 50°	·	
Storage temperature			-40°C to 70°	°C	
IP rating			IP54	-1 111100 0 14000	
Certification			CE, FCC, ROHS, KCC, Anate	ei, UN38.3, MSDS	
Physical parameters	<725 g (with hottom)	≤840 g (with battery)	<725 a (with bottom)	240 a (with bottom)	<725 g (with hotton)
Weight Size (L × W × H)	≤735 g (with battery)	≥840 g (with battery) 274 × 97 × 78 mm	≤735 g (with battery)	≤840 g (with battery) 274 × 110 × 78 mm	≤735 g (with battery) 274 × 91 × 78 mm
Software kit		2/4 ^ 2/ ^ /O IIIIII	ThermoToo		2/4 ^ 2/ ^ /0 !!!!!!
Standard	adapter, Adapter plug, N cable, Quick Start Guide, card, Capacitive screen	Lithium-ion battery, Power dicro USB cable, Micro HDMI Instructions, Data download gloves, TF card (16 GB) , EPP case	A device, Wrist strap, adapter, Adapter plug, N cable, Quick Start Guide, card, Capacitive screen carry	A device, Wrist strap, Lithium-ion battery, Power adapter, Adapter plug, Micro USB cable, Micro HDMI cable, Desktop charger, Tripod interface, Quick Start Guide, Instructions, Data download card, Capacitive screen gloves, TF card (16 GB), A carrying case	
Options	Lithium-ion battery, Carrying bag, Desktop charger, Tripod interface, Tripod, Sunshade	Lithium-ion battery, Carrying bag, Desktop charger, Tripod interface, Tripod, Sunshade, Expanded lens	Lithium-ion battery, Carrying bag, Desktop charger, Tripod interface, Tripod, Sunshade	Lithium-ion battery, Carrying bag, Desktop charger, Tripod interface, Tripod, Sunshade, Expanded lens	Lithium-ion battery, Carrying bag, Tripod, Sunshade, Bluetooth headset

PS Series High Performance Thermal Camera

Built For The Experts









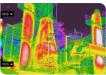




Introduce

The Guide PS Series high-performance thermal camera is designed to make the inspection, maintenance and troubleshooting work easier, faster and more accurate. It adopts a new generation of uncooled IR focal-plane detectors, which provides sharper thermal images and higher measurement accuracy. With its rotatable lens and screen structure, up to 13 million pixels visible light camera module, high precision rangefinder, and supplemented by some professional functions such as AI recognition naming, intelligent area measurement, flexible emissivity settings by areas, super-resolution reconstruction, strive to meet the needs of every thermography experts.





Application

- Electric Utilities Inspections
- Oil and Gas Maintenance
- Building Inspections
- o Research and Development

Features and Benefits

- o With a new generation of focus motor and professional laser rangefinder, 1-touch autofocus in 0.4 second
- Upgraded visible light camera, flagship model up to 13 million pixels, supports infrared and visual imaging dual-channel video recording
- Support Al voice recognition, text photo recognition and typing, convenient for customizing the image name
- o Optional lenses are available such as macro/wide-angle/Medium telephoto lens/ telephoto lens, support automatic calibration, easy to replace
- o Support cloud services, upload local images to the cloud at any time, for remote analysis and problem feedback
- o -40°C ~ 2000°C ultra-wide temperature range, support automatic switching, suitable for more application scenarios

Product model	PS400	PS600	PS610	PS800				
Imaging and optics								
Detector type		V	Ox					
Infrared resolution	384 × 288@17μm	640 × 480@17μm 1024 × 768@12μm						
Super resolution	Yes, Upgrade to 768 × 576	Yes, upgrade	Yes, Upgrade to 2048 × 1536					
technology	res, opgrade to 700 × 370			res, opgrade to 2040 × 1330				
Wavelength range			ο 14μm					
Focal length	15 mm		mm	28 mm				
Field of view	110		× 19°	2.42				
IFOV	1.13mrad	0.68	mrad	0.43mrad				
Minimum object distance D:S	0.15 m 885:1	1 4.	0.3 m	2325:1				
NETD	685.1 ≤45 mK	≤40 mK	70:1) mK				
Infrared frame rate	\$45 IIIK	30 Hz / 9 Hz	530	25 Hz / 9 Hz				
Focusing mode			c / Electric	23112 / 3112				
Digital zoom	1.1x to 10x	Automati	1.1x to 35x					
Shot recognition		Auto /	Manual					
Measurement and analysis	S	,						
Measurement range		ching: -40°C to 150°C, 100°C to 800°C, 0	ptional 700°C to 2000°C (High temperatu	ure lens is required)				
Measurement accuracy		ichever is greater		ichever is greater				
Analyzed target	Spot × 12, Line × 12, Area × 12	Spot × 16, Line × 16, Area × 16	Spot × 20, Line × 20, Area × 20	Spot × 30, Line × 30, Area × 30				
Tracking / Alarm	Full screen maximum, minimum and	average temperature tracking; The maxim temperature threshold	num, minimum and average temperature talarm (image and voice)	tracking of analyzed target; full screen				
Isothermals		Ava	ilable					
Temperature measuring parameters	Emissivity, re	flected temperature, target distance, hum	nidity, atmospheric transmittance, optical	transmittance				
Image display								
Display screen		5"	LCD					
Eyepiece		1, 280 × 960	LCOS screen					
Digital camera	8 MP		13 MP					
Image mode		IR, VIS, M	IF and PIP					
Image adjustment		Automatic, semi-	automatic, manual					
Color palettes	White Hot, Iron Red, Arctic, Rainbow 2, Hot Iron, Rainbow 1, Fulgurite, Medical, Customized	White Hot, Iron Red, Arctic, Rainbow 2, Hot Iron, Rainbow 1, Fulgurite, Medical, Tint, Black Hot, Customized		Hot Iron, Rainbow 1, Fulgurite, Medical Hot, Sepia, Customized				
Functions								
Shooting		Photo (image stitching) and	video (infrared & visible light)					
Others		Customized p	physical button					
Storage and transmission								
Storage media			card (64 GB and up to 128 GB)					
Image storage			temp info					
Video storage	·	ut temp info) can be used to record audio		· · · · · · · · · · · · · · · · · · ·				
External interface	,	pe-C, DC (12V) , SD card slot, Network po	, , ,	3/				
Laser	6	530~670nm, Class 2 laser, <1mW, indica		ny				
Audio WIFI	Voc	, it can be connected to the mobile termin	crophones and speakers respectively	ccion				
GPS	165		ilable	551011				
Bluetooth			ilable					
Cellular network			e (optional)					
Power system		10 moduli	- /-E					
Battery type		Lithium-ion rech	nargeable battery					
Battery working time		≥4 hours	,	≥3 hours				
Power management			n and sleep mode					
Charging mode		The device can be charged throug	h desktop charger after shutdown.					
Charging time		90% of full cha	rge in 2.5 hours					
Environmental parameters								
Working temperature			to 50°C					
Storage temperature			to 70°C					
IP rating			254					
Certification	CE, FCC	, ROHS, KCC, Anatel, Damp heat test, Vib	ration test, Shock test, Impact test, UN38	.3, MSDS				
Physical parameters		4.05 //- /. 24 1		d F (, , , , , , , , , , , , , , , , , ,				
Weight		≤1.35 Kg (with battery)		≤1.5 Kg (with battery)				
Size (L × W × H)		206 × 145 × 135 mm	no Tools	206 × 169 × 135 mm				
		ThermoTools ery, Power adapter, Adapter plug (5 pcs), ble, Network cable, Quick Start Guide, card (64 GB), Shoulder strap, Carrying ThermoTools A device, Lens cover, Lithium-ion battery, Power adapter, Adapter plug (5 pc.), TYPE-C USB cable, Micro HDMI cable, Network cable, Quick Start Guide, Instructions, Data download card, SD card (64 GB), Shoulder strap, Carrying						
Software kit Standard	TYPE-C USB cable, Micro HDMI cab Instructions, Data download card, SD	ole, Network cable, Quick Start Guide,	TYPE-C USB cable, Micro HDMI cab Instructions, Data download card, SD	le, Network cable, Quick Start Guide,				

PT Series HD High-Performance Thermal Camera

The World's First Portable Thermal Camera with MP-level Infrared Resolution







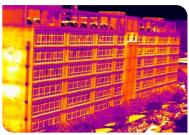
Introduce

Guide PT Series is the world's first portable thermal camera with MP-level Infrared Resolution. Equipped with the self-developed 1280×1024 IR detector, this camera has the A/M-Focus manual and auto focusing system to provide much more crisp images. Advanced hardware, software and exceptional experience ensure it is the flagship in this industry.

Features and Benefits

- o Up to 1280x1024 IR resolution
- o ContFocus intelligent and continuous autofocus model
- o An optional temperature range to 2500°C for more applications
- Observation of 36µm objects through a macro lens
- o IR video with temperature information at 20 Hz
- o PerIRVision image stitching technology

- Electric Utilities Inspections
- o Oil and Gas Maintenance
- Building Inspections
- o Research and Development





Product model	PT650	PT850	PT870
Imaging and optics	11030	17000	71070
Detector type		VOx	
Infrared resolution	640×512@12um	1024 × 768@12μm	1200 v 1024@12um
	640×512@12µm	<u> </u>	1280 × 1024@12µm
Super resolution technology	Yes, Upgrade to 1280 × 1024	Yes, Upgrade to 2048 × 1536	Yes, Upgrade to 2560 × 2048
Wavelength range		7.5 to 14µm	
Focal length	17 mm	28 mm	35 mm
Field of view		25°×19°	
IFOV	0.71mrad	0.43mrad	0.34mrad
Minimum object distance		0.3m	
D:S	1408:1	2325:1	2941:1
NETD		≤55mK	
Infrared frame rate		30 Hz / 9 Hz	
Focusing mode	Manual / Auto / (Continuous autofocus / Laser-assisted autofocus / 1	Touch to autofocus
Digital zoom	1.1x to 40x		to 50x
-	1.1% to 40%		10 30%
Shot recognition		Auto	
Measurement and analysis Measurement range	Support auto-switching: -40°C to 150°C, 0°C to 650°C, Optional 400°C to 2500°C (High temperature lens is required)		00°C, Optional 400°C to 2500°C (High temperature required)
Measurement accuracy		±1°C or ±1%, whichever is greater	
Analyzed target	Spot × 30, Line × 30, Area × 30	Spot × 35, Line	× 35, Area × 35
Tracking / Alarm	Full screen maximum, minimum and average ter	nperature tracking; The maximum, minimum and ave screen temperature threshold alarm (image and voic	rage temperature tracking of analyzed target; full
Isothermals		Available	
Temperature measuring	Emissivity, reflected temporature	tarant diatanaa bumiditu atmaanbaria transmittana	a antical transmittance days naint
parameters	Emissivity, reflected temperature,	target distance, humidity, atmospheric transmittanc	e, optical transmittance, dew point
Image display			
Display screen		5", 1920×1080 pixel touchscreen LCD	
Eyepiece		1, 920 × 1, 080 OLED screen	
Digital camera	Dual visible light, up to 13 MP	<u> </u>	pht, up to 16 MP
Image mode	2 222 1101212 113111, 24 12 12 111	IR, VIS, MIF, PIP	,,,, ep 10 10
Image adjustment		Automatic, semi-automatic, manual	
	White Het Iven Ded Avetic Deinheur 2 Het Iven De	ninbow 1, Fulgurite, Medical, Tint, Black Hot, Blue Ho	t Cania Craan Hat Isa and Fire Ambar Cratamin
Color palettes	Willie Hot, Itoli Red, Alctic, Railibow 2, Hot Itoli, Ra	illibow 1, rulgulite, Medical, Tilli, Black Hot, Blue Ho	t, Sepia, Green Hot, Ice and Fire, Amber, Customize
Functions			LA
Shooting		noto (image stitching) and video (infrared & visible li	· ,
Others	Customized	physical button, Intelligent diagnosis, NFC connection	n, OTA update
Storage and transmission			
Storage media	Local sto	orage (64 GB) and external SD card (128 GB and up t	to 256 GB)
Image storage		JPG with temp info	
Video storage	MP4 format (without temp info) can be used t	o record audio synchronously; Irgd (with temp info),	up to 20 Hz (optional) for temperature analysis
External interface	Type-C, DC	C (12V), SD card slot, Micro HDMI, UNC 1/4"-20 (Tripo	d mounting)
Laser		ass 2 laser, < 1mW, indicating the measured target	0,
Audio		and playback through microphones and speakers r	
WIFI		nected to the mobile terminal for image and real-time	• •
	res, it can be com		e video transmission
GPS	61	Available	1:.1\
Bluetooth	Blue	etooth 5.0, support image transmission (only for And	aroia)
Cellular network		5G module (optional)	
Power system			
Battery type		Lithium-ion rechargeable battery	
Battery working time		≥4 hours	
Power management		Timed shutdown and sleep mode	
Charging mode	The dev	vice can be charged through desktop charger after sl	hutdown.
Charging time		s of full charge in 2.5 hours, revealed by the status so	
Environmental parameters	50%		
Working temperature		-20°C to 50°C	
Storage temperature		-40°C to 70°C	
IP rating		IP54	
Certification	CE, FCC, ROHS, KCC, A	natel, Damp heat test, Vibration test, Shock test, Imp	pact test, UN38.3, MSDS
Physical parameters			
Weight		≤1.86Kg (with battery)	
Size (L × W × H)		191 × 171 × 118 mm	
Software kit		ThermoTools	
Standard	HDMI cable, Type C to GE cable, SD card (128	m-ion battery (2 pcs), Desktop charger, Power adapt GB) , Wrist strap, Shoulder strap, Carrying case, Safe slysis software & user manual), Certificate of approv	ety box, Packaging list, Quick Start Guide, Data
Options	Battery, optional lens (45°, 15°, 7°, 25	°, high-temperature lens, macro lens), Carrying bog,	Tripod, Bluetooth earphone, 5G module
υμιιστις	рацегу, ортіопаї iens (45°, 15°, 7°, 25	, mgn-temperature iens, macro iens), Carrying bog,	тироц, вичесости еагриопе, зъ тодите

Handheld Thermal Cameras Selection Guide



Series	T Series		PC S	eries	P Series	PF Series	D Se	eries	
Model	T120	T120V	PC210	PC230	P120V	PF210	D192F	D384F	
IR Resolution	120)x90	256	×192	120x90	256×192	192×144	384×288	
NETD	60	mk	45mK	50mK	60mk	60mk	50mk	45mk	
FOV	50°2	×38°	56°×48°	25°×19°	50°×38°	56°×48°	37.8°×28.8°	28.4°×21.5°	
Focal length	2.28	3mm	3.2mm	7mm	2.28mm	3.2mm	7mm	19mm	
Focus	Focu	s-free	Focus-free	Automatic	Focus-free	Focus-free	Focu	s-free	
Visible Camera	N/A	70000 pixels	21	ИΡ	300000 pixels	5MP	51	ИP	
Display	2.4" LCI	D screen	2.4" LC) screen	3.5" LCD to	ouch screen	4" highlight LC	D touch screen	
Image Model	IR	IR,Visible,PIP	IR, Visible	e,PIP, MIF		IR, Visible	Visible,PIP, MIF		
Super-resolution	N/A	N/A	N/A	N/A	N/A	N/A	N/A	YES	
level span	N/A	N/A	N/A	N/A	YES	YES	YES	YES	
Panoramic Mosaic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Temperature Range	-20°C-150°C,	, 100°C-400°C	-20°C-150°C, 100°C-550°C		-20°C-150°C, 100°C-400°C	-20°C-150°C, 100°C-550°C -20°C~350°C		√350°C	
Accuracy	±2°C	or ±2%	±2°C	or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C (or ±2%	
Measurement Spot	Cente	er spot	Center spot	Center spot	1	2	!	5	
Measurement Line	N/A	N/A	N/A	N/A	N/A	N/A	:	2	
Measurement Area	:	3	:	3	1	3	!	5	
Storage	TF card 16G	(up to 32G)	TF ca	rd 32G	4G	16G	TF card 16G (up to 32G)		
Laser pointer	YES	YES	YES	YES	N/A	YES	YES	YES	
Laser rangefinder	N/A	N/A	N/A	N/A	N/A	YES	N/A	N/A	
WIFI	N/A	YES	N/A	N/A	YES	YES	YES	YES	
Bluetooth	N/A	N/A	N/A	N/A	N/A	YES	N/A	N/A	



D Series		PS Series				PT Series			
D192M	D384M	D384A	PS400	PS600	PS610	PS800	PT650	PT850	PT870
192×144	384	×288	384×288	640×480	640×480	1024×768	640×512	1024×768	1280×1024
50mk	45mk	40mk	45mk	40mk	30mk	30mk	55mk	55mk	55mk
37.8°×28.8°	28.4°×21.5°	35°×27°		25°	×19°			25°×19°	
7mm	19mm	15mm	15mm	25	mm	28mm	17mm	28mm	35mm
Mai	nual	Electric/ Automatic		Electric/	Automatic	,	Manual / Auto / Conti autofus	inuous autofous / / Touch to autofou	
	5MP		18	ИΡ	13	MP	8MP/13MP	8MP/	16MP
4" hig	hlight LCD touch s	screen	5	',1280×720 High	Light Touch Scre	en	5.5" L	.CD touch screen	
	IR, Visible,PIP, MIF	:		IR, Visible	e,PIP, MIF		IR, \	visible,PIP, MIF	
N/A	YES	N/A	YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
N/A	YES	YES	N/A	YES	YES	YES	YES	YES	YES
650°C ~1500°C(I	100°C~650°C, High temp lens is onal)	-20°C~150°C, 100°C~650°C	-40°C~150°C,100°C~800°C, 700°C-2000°C(High temp lens is optional)			40°C~150°C,0°C~650° C, 400°C-2500°C(High temp lens is optional) -40°C~150°C,0°C~800°C, 400°C- 2500°C(High temp lens is optional)			
	±2°C or ±2%	1	±2°C~±2% ±1°C~±1%				±1°C~±1%		
	5		12	16	20	30	30	35	35
	2		12	16	20	30	30	35	35
	5		12	12 16 20 30		30 35 35			
TF	card 16G (up to 3	2G)	Built-in	64G, external SD	card supports up	to 64G	Built-in 64G, external SD card supports up to 256G		
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
N/A	N/A	N/A	N/A	N/A	N/A	N/A	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
N/A	N/A	YES	YES	YES	YES	YES	YES	YES	YES

PC Analysis Software Professional & Full-featured

PC "ThermoTools" 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. ThermoTools featured with user-friendly UI, powerful functions, and simplified operation and creates analysis reports automatically.

Various images/videos resources

- · Wi-Fi SD card import
- · FTP download
- · USB transfer from camera internal storage
- · Cloud file

Video Processing

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

Image Analysis

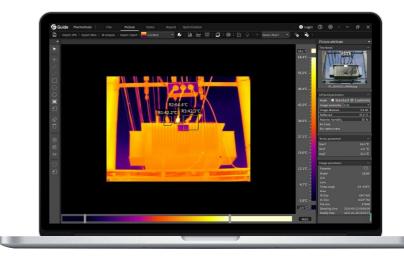
- Image enhancement such as image fusion, palette/level span adjustment etc.
- · Various analysis objects add-ons such as spots, lines, areas, delta-T etc.
- 3D image display, histogram/temp profile presentation, image geographic info display
- · Add text notes and voice notes

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

Preference settings

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



Mobile APP Smart & Convenient

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.

Real-time Video Preview

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

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.

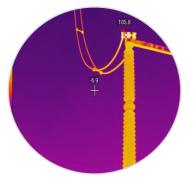
Image Analysis and Editing

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

Report generation and sharing

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

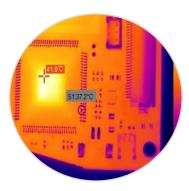




Power industry



Environmental protection



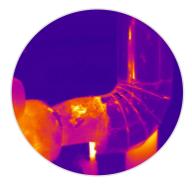
Industrial automation



Inspection and quarantine



Building diagnostic



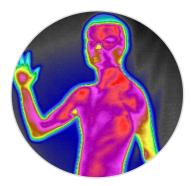
Petrochemical industry



Consumer electronics



Smart home



Medical