

2018



SATIR

LEADING THE WAY IN THERMAL IMAGING

PRODUCT CATALOGUE

www.satir.com
www.sat.com.cn

5.5-inch HD LCD touch panel

PK-80 PK-160

The Real Tablet Thermal Camera

Ideal Portable Thermal Solution in the Age of the Internet



Tablet? Thermal Camera? Both!

PK series integrates tablet and thermal camera technologies, which makes the device a multifunctional, multi-application device.

Always Online

PK series can access the internet via either a WIFI connection or 3G Network. Users can share thermal information anytime, anywhere.

- | | | | | | |
|--|---|---|---|---|---|
| 
Ergonomic Design | 
Shock Resistance | 
Infrared Video Store | 
Anti-electromagnetic interference | 
Anti-drop | 
Thermal Video Player |
| 
Internet Connection | 
USB | 
Bluetooth | 
5.5" Touch Screen LCD | 
WiFi | 
Power Save |



Perfectly integrated tablet and thermal camera technologies

Integrating infrared imaging technology with telecommunications technology, provides the user with a tablet that allows communication in real time, and allows live image video transmission.

Android Platform: Open Source and Expandable

Based on the Android operating platform, the system is intelligent, scalable and easy to use.



Multifunction USB connector

The USB port allows the user to re-charge camera and transfer data in one convenient connector.



5.5 Inch Capacitive Touch Screen

PK series has a 5.5 inch touch screen display, which provides a rapid response interface and an excellent user experience. The infrared image is displayed in higher definition and allows the user to see objects in finer detail.



8MP HD CCD

HD CCD provides vivid images with every detail.



Additional BUILT-IN Features

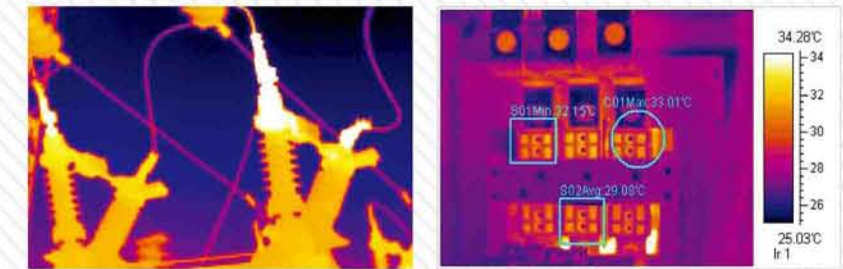
With Bluetooth, WiFi, compass, and other functions in one device, information can be transmitted anytime, anywhere with this professional infrared camera. These features make the PK series a multifunction, multi-application tool.



LEADING THE WAY IN THERMAL IMAGING
With our new camera for the tablet/internet generation

Powerful analysis functions

PK series provides powerful measurement features which include 5 moveable spots, auto high/low temperature tracking, temperature alarms, isotherm, circle and area boxes.



Thermal Testing



File Report

Type	PK-160	PK-80
Image performance		
FOV	24° x 32°	21° x 21°
Spatial resolution	3.05 mrad	4.6 mrad
Thermal sensitivity	≤0.08°C@30°C	≤0.1°C@30°C
Detector resolution	160x120	80x80
Focus	Fixed focus	
Image presentation	IR/CCD	
Image mode	High Definition CCD, 8 million pixels	
Visible pixels	5.5" HD Capacitive touch screen	
LCD Display	.JPG	
File format(IR/CCD)	Temperature measurement	
Measurement mode	5 movable spots, auto hot/cold spot capture, isothermal analysis, 2 circle analysis, 2 rectangular analysis	3 movable spots, auto hot/cold spot capture, isothermal analysis, 1 circle analysis, 1 rectangular analysis
Measurement accuracy	± 2°C or ± 2% of readings	
Protective Performance	IP54	
Encapsulation	25G/2G	
Shock/Vibration resistance	Yes	
Drop Resistant	0°C~+50°C	
Operating temperature	Wireless transmission and positioning	
WiFi	Yes	
Bluetooth	Yes	
Additional features	Built-in memory	
Built-in memory	Yes	
Video record	Yes	
Ports	USB port, 3.5mm earphone port	



E8

Entry Level

E8 Series— affordable, compact and versatile

Lightweight, Compact structure

E8 series adopts our innovative upright design, weighing less than 500grams (including the battery), it is designed to fit into the palm of your hand.

Intelligent design, easy to operate

All of the control buttons are easy to reach, combined with the new improved menu, the user can control the camera with the touch of a button.

Powerful analysis functions

Up to 10 spot temperature points, automatic max/min spot capture, line analysis, regional analysis and isotherm.

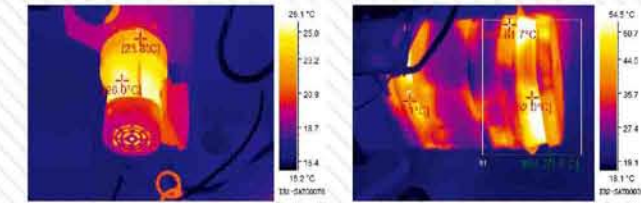
Real-time transfer	Multi-lenses optional	USB	Friendly Operation Interface	3-inch full color LCD can be flipped	Duo-vision
Ergonomic Design	3 hours Continuous Operation	Bluetooth	Multi-sockets	Cost-effective and advanced technology	STD/PRO Software Optional



Ergonomic design, light weight, compact, convenient one-handed operation, large number of functions, great expandability, similar quality camera for cheaper now, the E8 series is probably the most desirable compact thermal imaging camera in the world. The weight of the camera including the battery is less than 500g and with its unique design fits smoothly into the palm of your hand.

Analysis function

Up to 10 spot temperature points, automatic max/min spot capture, line analysis, regional analysis and isotherm.



Multi-functional docking station

The multi-functional docking station with integrated battery charging, video output, tripod mounting and USB connection enables the E8 to connect with a PC for real-time radiometric data recording and analysis.



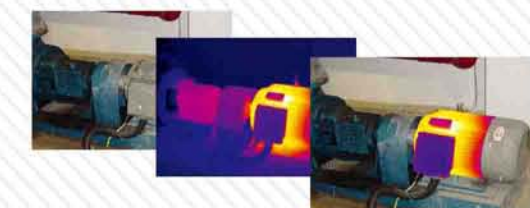
Bluetooth

Users can add voice annotation to the thermal images via a Bluetooth headset. The recording can be saved with the thermal image and can be played back in the headset or using the SatlrReport software.



Duo-vision

The E8 series can take high quality "Duo Vision" images which aids interpretation through thermal and visual blending. The user can move the infrared image overlay and alter the transparency to suit their application.



Industrial Thermal Imager Series



L-ion battery for continuous use

Large capacity L-ion battery combined with innovatively designed energy conversion modes enables the E8 series to continuously work for over three hours.



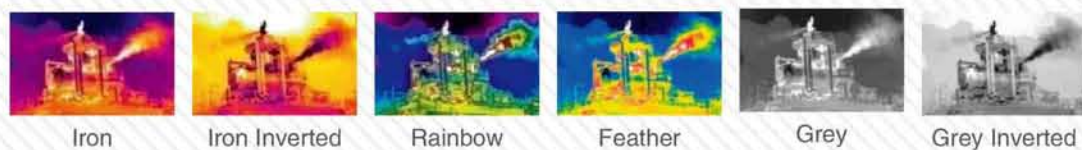
Ten languages

English/French/German/
Italian/Spanish/Portuguese/
Chinese/Japanese/Russian/
Korean



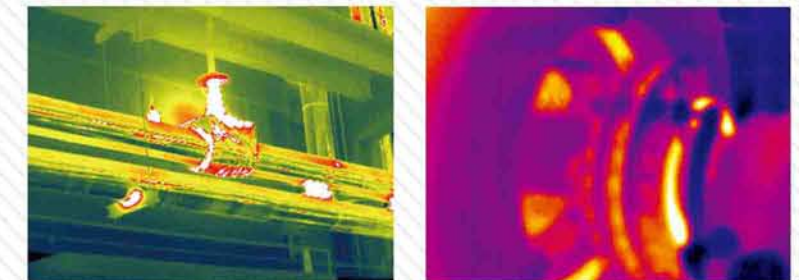
Six colour palettes

Iron/Iron Inverted/Rainbow/Feather/Grey/Grey Inverted



Meeting different industries, the essential tool for energy saving applications

E8 Series— affordable,
compact and versatile

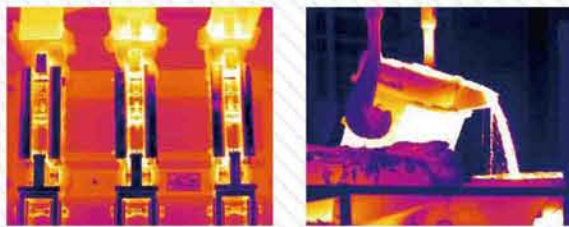


Type	E8	
Image performance		
FOV/Min. focus distance	20° x15° /0.1m	
Spatial resolution	2.2 mrad	
Thermal sensitivity	≤0.08℃ @30℃	
Detector type	UFPA (Uncooled focal plane array)	
Detector resolution	160 x120	
Spectral range	8-14um	
Focus	Manual	
Image presentation		
Image mode	IR	Yes
	CCD	Optional
	Duo-vision	Optional
Video output frequency	NTSC (60Hz) or PAL (50Hz) full dynamic output	
LCD Display	3" TFT screen	
Temperature measurement		
Measure range	-20℃~+250℃ (up to 1500℃,optional)	
Accuracy	±2℃ or ±2% of readings	
Image storage		
Type	Removable SD card(up to 16GB)	
Physical characteristic		
Weight	less than 500g	
Additional features		
illuminator	Optional	
Laser pointer	Yes	
USB2.1 real-time transfer	Optional	
Bluetooth	Optional	

HotFind-VR HotFind-LR

Middle Level

High performance IR camera for middle level applications



- 
Sun Shield
- 
Multi-lenses optional
- 
USB
- 
Bluetooth
- 
Anti-electromagnetic interference
- 
Abnormal Temperature Alarm
- 
Easy to operate
- 
3 hours Continuous Operation
- 
Ergonomic Design
- 
Multi-point temperature measurement Automatic capture

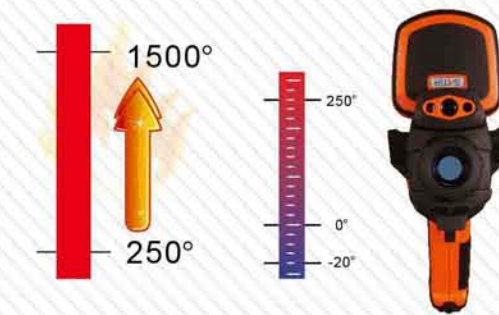


Large screen design, perfect presentation

Hotfind-VR, HotFind-LR uses a 3.5 inch LCD screen, the user can adjust the angle of the LCD for the best viewing angle. The Tilting design also provides protection for the LCD while the camera is not in use.

Extendable temperature range

Objects of different temperatures require the corresponding temperature ranged infrared cameras. The HotFind-VR, HotFind-LR has four temperature ranges. It can be extended from the standard -20 to 250°C, upto +1500°C, which means the HotFind series can also be widely used in high temperature applications.



Duo-vision technology

The HotFind-VR, HotFind-LR can take high quality "Duo-vision" images which aids better interpretation through thermal and visual blending. The user can move the infrared image overlay and alter the transparency to suit their application.



Various optional lenses

Flexible design of the camera means the HotFind-VR, HotFind-LR can be fitted with various optional lenses for different field of view. All lenses are field replaceable and allow for long distance, wide angle or close views.



Battery life

The HotFind-VR & Hotfind-LR uses lithium batteries with large capacity, and with its power saving design, it can work for more than 5 hours continuously.



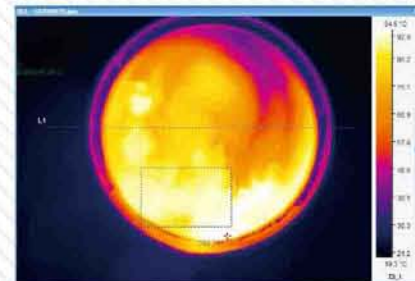
Bluetooth

Users can add voice annotation to the thermal images via a Bluetooth headset. The recording can be saved with the thermal image and can be played back in the headset or using the SatIrReport software.



Measurement Features

The HotFind-VR & Hotfind-LR have integrated Spots (up to 9), Line profile, Area Boxes (up to 5), multiple Isotherm and auto-tracking analysis, which provide accurate non-contact temperature measurement.



High frame rate in real time

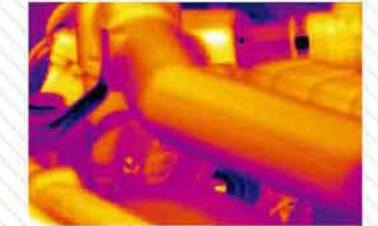
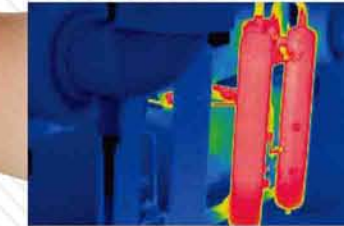
HotFind-VR, HotFind-LR adopts NTSC (60Hz) or PAL (50Hz) composite video output. The thermal images are displayed in real time which guarantees complete and vivid thermal imaging with no ghosting.



High performance IR camera for entry level applications

Laser Pointer

The laser pointer can target areas of concern quickly and efficiently after the temperature anomaly was found, troubleshooting in time.



- USB
- Bluetooth
- IP54
- Shock Resistance
- Sun Shield
- Multi-lenses optional
- 3 hours Continuous Operation
- Abnormal Temperature Alarm

Type	HotFind-VR	HotFind-LR
Image performance		
FOV/Min. focus distance	20° x15°/0.1m	24° x18°/0.1m
Spatial resolution	2.2 mrad	1.3 mrad
Thermal sensitivity	≤0.08°C@30°C	≤0.05°C@30°C
Detector type	UFPA (Uncooled focal plane array)	
Detector resolution	160 x120	384 x288
Spectral range	8-14um	
Focus	Manual	
Image presentation		
Image mode	IR	Yes
	CCD	Yes
	Duo-vision	Yes
Video output frequency	NTSC (60Hz) or PAL (50Hz) full dynamic output	
LCD Display	3.5" TFT screen	
Temperature measurement		
Measure range	-20°C~+250°C (up to 1500°C,optional)	
Accuracy	±2°C or ±2% of readings	
Image storage		
Type	2GB Removable micro SD card(up to16GB,optional)	
Physical characteristic		
Weight	less than 600g	
Additional features		
Available optional lenses	3.8°, 6.4°, 9°, 12°, 38°	9°, 12°, 48°
Illuminator	Yes	
USB real-time transfer	Optional	
Bluetooth	Optional	

HotFind-S

Middle Level

384x288 resolution high performance IR camera for universal industrial applications

DUO-VISION PLUS



Digital noise reduction, excellent imaging performance

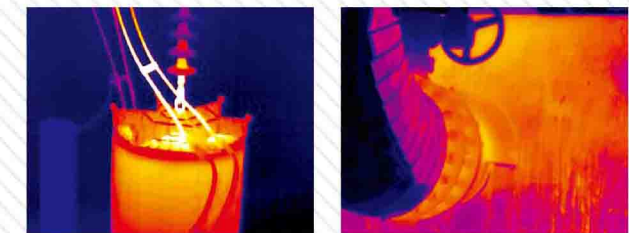
Using new imaging processing technology to reduce interference, combined with the outstanding performance of the latest generation 384x288 detector, the HotFind-S produces sharper thermal images.

-  Ergonomic Design
-  Shock Resistance
-  USB
-  Multi-sockets
-  Micro SD card
-  IP54
-  Abnormal Temperature Alarm
-  DUO-VISION PLUS
-  4 hours Continuous Operation
-  Sun Shield
-  Multi-lenses optional
-  Easy to Operate



High-speed processing, full-time dynamic image output

The high speed image processing engine with up to 50Hz dynamic real time graphical output, produces a smooth, no delay image.



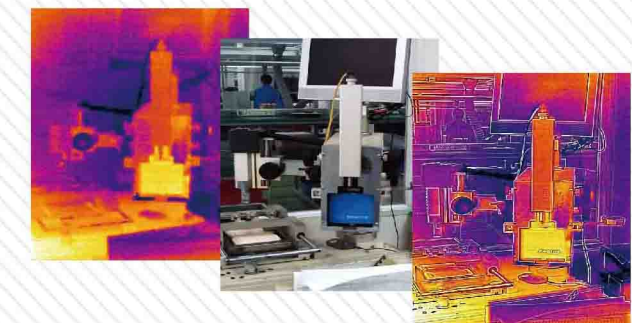
Large storage capacity

HotFind-S can save thousands of infrared images or video of hours of video with its large capacity micro SD card, making it easy for user to review.



DUO-VISION PLUS technology

By applying the unique DUO-VISION PLUS technology, infrared image and visual image can be merged together to deliver high quality thermal image with exquisite details, making it even easier for the users to find out more.





3.5" Tilting LCD

HotFind-S uses a 3.5inch LCD screen, the user can adjust the angle of the LCD for the best viewing angle. The tilting design also provides protection for the LCD while the camera is not in use.

Dual Control- Keypad and Touch Screen

The camera comes with two methods of control, keypad and touch screen. The user can control the camera depending on their preference and application.



Various optional lenses

Flexible design of the camera means the HotFind-S can be fitted with various optional lenses for different field of view. All lenses are field replaceable and allow for long distance, wide angle or close views.



Battery life

HotFind-S uses lithium batteries with large capacity, and with its power saving design, it can work for more than 5 hours continuously.



Digital noise reduction, excellent imaging performance

easy to use interface

The touch screen menu design is easy to use, intuitive and provides the user with a pleasant user experience with powerful analysis features.



Ergonomic Design



Shock Resistance



DUO-VISION PLUS



Multi-sockets



Abnormal Temperature Alarm



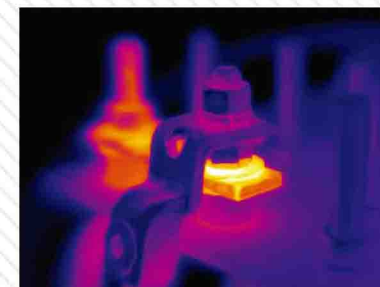
Bluetooth



4 hours Continuous Operation



Sun Shield



Type	HotFind-S
Image performance	
FOV	24° x18°
Spatial resolution	1.3 mrad
Thermal sensitivity	≤0.05°C@30°C
Detector resolution	384 x288
Focus	Manual
Image presentation	
Image mode	IR/CCD/DUO-VISION PLUS
Visible pixels	High Definition CCD, 5 million pixels
LCD Display	3.5" Capacitive touch screen
Image output mode	Analog video output
File format(Thermal/Visual)	JPG
Temperature measurement	
Measurement accuracy	-20°C~+600°C(up to 1500°C,optional)
Protective Performance	
Encapsulation	IP54
Shock/Vibration resistance	25G/2G
Drop Resistant	Yes
Operating temperature	-20°C~+50°C
Additional features	
Built-in memory	Yes
Ports	USB port, Analog video output port
Video record	Yes
Bluetooth	Yes

D300

Middle Level

High 384x288 resolution detector and laser ranging



Long time operation

nearly 8 working hours, incomparable by any other products in the market

High frame rate in real time

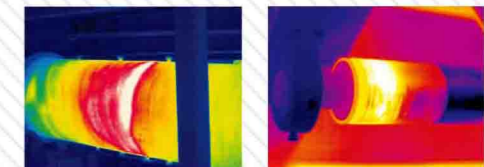
The high speed image processing engine with up to 50Hz dynamic real time graphical output, produces a smooth, no delay image.

- | | | | | | |
|----------------------------|------------------|------------------------------|---------------|-----------------------|-----------------|
| | | | | | |
| Ergonomic Design | Shock Resistance | USB | Multi-sockets | DUO-VISION PLUS | IP54 |
| | | | | | |
| Abnormal Temperature Alarm | Bluetooth | 8 hours Continuous Operation | Sun Shield | Multi-lenses optional | Easy to Operate |



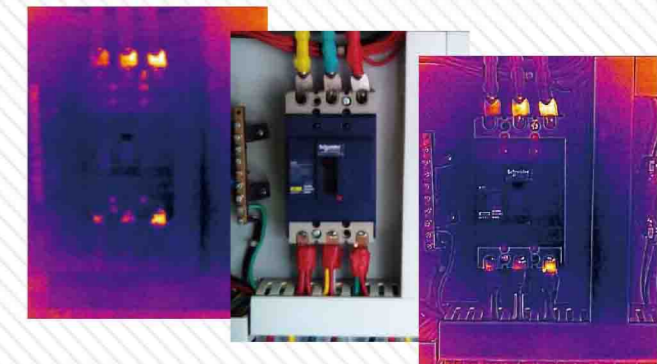
Laser ranger finder(LRF)

The LRF integrated into the D300 can help users to acquire accurate information of the target position and distance.



DUO-VISION PLUS technology

By applying the unique DUO-VISION Plus technology, the infrared and visual image can be merged together to deliver high quality thermal image with exquisite details, making it even easier for the users complete their analysis.



IR video recording

The IR video recording function enables the users to review the IR video and perform further analysis, giving the users full control to the operational status of the target.



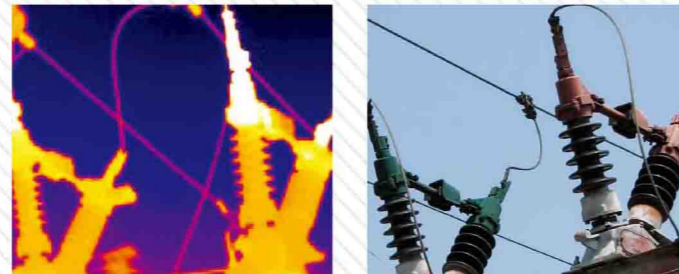


Excellent imaging quality

D300 applies the latest image processing technology, which reduces interference, together with the excellent performance of the 384x288 infrared detector, D300 provides high quality infrared image with clear and fine details.

5MP CCD

D300 integrates the 5MP CCD, providing the users with absolute clear visual image.



Flip and rotatable LCD

The D300 has a 3.5 inch rotatable and flippable LCD display, making it more user-friendly for touchscreen operation, and also enabling the user to get the best viewing angle.



large storage capacity(built-in)

16GB built-in memory ensures the reliability and stability, making it possible to take images or videos without the need for extra memory.



Type	D300
Image performance	
FOV	24° x18°
Spatial resolution	1.3 mrad
Thermal sensitivity	≤0.05°C@30°C
Detector resolution	384 x288
Focus	Motorized/Automatic
Image presentation	
Image mode	IR/CCD/DUO-VISION PLUS
Visible pixels	High Definition CCD
LCD Display	3.5" reversible capacitive touch screen
Image output mode	Analog video output
File format(Thermal/Visual)	JPG
Temperature measurement	
Measurement range	-20°C ~ +600°C (up to 1500°C,optional)
Accuracy	±2°C or ±2% of readings
Laser	
Type	Class 2, 1mW/635nm, red
Laser ranging	Yes
Measurement range	0.05m ~ 30m
Protective Performance	
Encapsulation	IP54
Shock/Vibration resistance	25G/2G
Operating temperature	-20°C ~ +50°C
Additional features	
Built-in memory	Yes
USB Ports	Type-C
Video record	Yes
Bluetooth	Yes (Optional)
Real-time transmission	USB real-time transmission with temperature data (Optional)
Battery life	8 hours

NEW

D600

Performance level

High 640x480 resolution detector and laser ranging

DUO-VISION PLUS



3.5" Tilting LCD

D600 uses a 3.5inch LCD screen, the user can adjust the angle of the LCD for the best viewing angle. The tilting design also provides protection for the LCD while the camera is not in use.

Automatic/Motorized Focusing

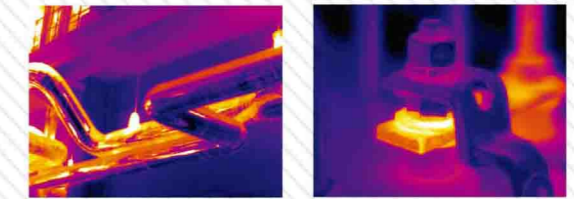
The D600 has a motorized lens which enables the user to focus the camera manually by using the keypad, or automatically using the touchscreen. This provides a clear and defined image for carrying out analysis.

- | | | | | | |
|---|--|---|--|---|--|
| 
Ergonomic Design | 
Shock Resistant | 
USB | 
Multi-sockets | 
DUO-VISION PLUS | 
IP54 |
| 
Abnormal Temperature Alarm | 
Bluetooth | 
8 hours Continuous Operation | 
Sun Shield | 
Multi-lenses optional | 
Easy to Operate |



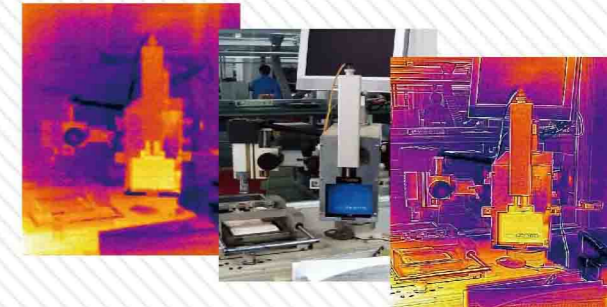
Excellent Image Quality

The D600 applies the latest image processing technology to reduce interference and together with the excellent performance of the 640x480 infrared detector, the D600 produces a high quality infrared image with clear and defined details.



DUO-VISION PLUS technology

By applying SATIR's DUO-VISION Plus technology, the infrared and visual image can be merged together to deliver a high quality and detailed image, that is unachievable through infrared alone, making it even easier for users to complete their analysis.



Flip and rotatable LCD

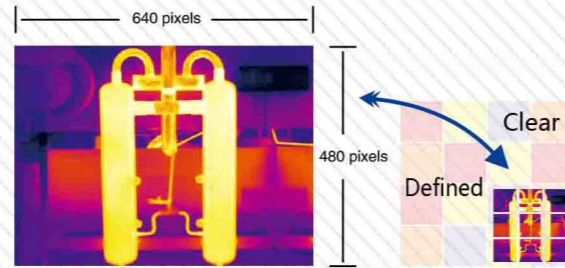
The D600 has a 3.5 inch rotatable and flippable LCD display, making it more user-friendly for touchscreen operation, and also enabling the user to get the best viewing angle.



Flip and rotatable LCD

High resolution 640x480 UFPA detector

At the heart of the D600 is a high resolution 640x480 UFPA detector. With an array of 307,200 active detectors, every on-screen pixel offers an accurate and reliable temperature measurement reading. A very high thermal sensitivity of 50mK (0.05°C@30°C) allows the D600 to display the sharpest images with superior image quality.



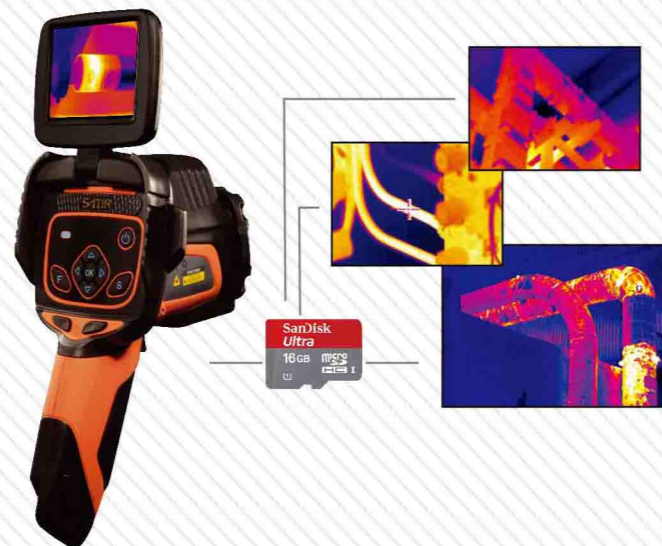
Long time operation

D600 uses lithium batteries with large capacity, and with its power saving design, it can work for more than 8 hours continuously.



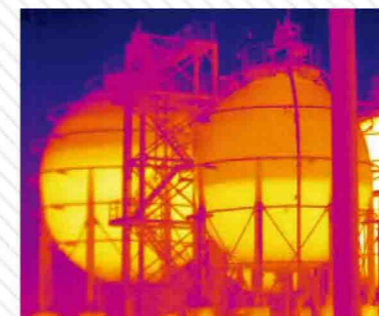
Built-in Memory Storage

The 16GB built-in memory provides a reliable and stable platform to save images without the risk of losing external memory cards.



Laser ranger finder(LRF)

The LRF integrated into the D600 can help users to acquire accurate information of the target position and distance.



Type	D600
Image performance	
FOV/Min.focus distance	24° x18°/0.20m
Spatial resolution	0.65 mrad
Thermal sensitivity	≤0.05°C@30°C
Detector type	UFPA
Resolution	640x480
Spectral range	8-14um
Focus	Manual/Motor/Auto
Image presentation	
Image mode	IR/CC IR/CCD/Duo-vision//Duo-vision Plus
LCD Display	3.5" Capacitive touch screen,640x480
Visible pixels	High definition CCD , 5million pixels
Video output	NTSC (60Hz) or PAL (50Hz) composite video
Temperature measurement	
Measurement range	-20°C ~ +600°C , up to +1500°C(optional)
Accuracy	±2° or ±2% of readings
Measurement mode	8 movable spots, auto hot/cold spot, profile, 2 area boxes, isotherm, line
Alarm	Yes
Image storage	
Type	16GB
File format	.JPG(thermal/Visual)
Power system	
Battery type	Built-in rechargeable lithium-ion battery
Charge interface	Type-C
Power manage	Auto shut off / Sleep mode
Environment specification	
Operating temperature range	-20°C to +50°C
Storage temperature range	-40°C to +70°C
Encapsulation	IP54
Physical characteristic	
Tripod mounting	1/4" _20