

USER MANUAL

THERMAL IMAGER

PCE-TC 32N



ENGLISH



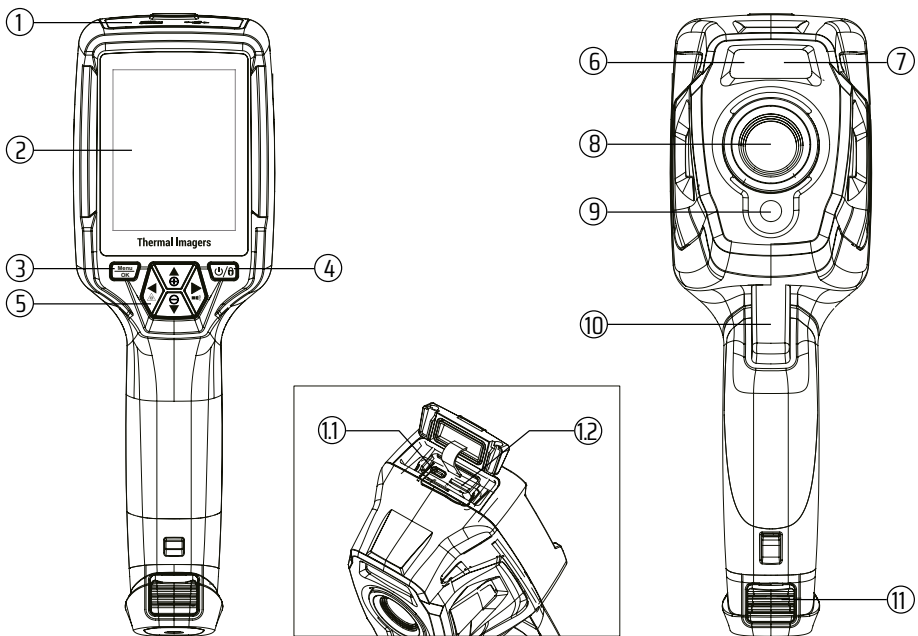
User manuals in various languages (français, italiano, español, português, nederlands, türk, polski) can be found via our product search on:
www.pce-instruments.com

1. INTRODUCTION

The Thermal Imager is handheld imaging camera used for predictive maintenance, equipment troubleshooting, and verification. Focus the lens to the object, Then the thermal and visual images are displayed on the LCD and can be saved to a Micro SD Memory card. Transferring images to a PC is accomplished by removing the SD memory card and connecting it to a PC through the included card reader, or transfer the images and video stream to the smart device with "Thermoview" apps installed.

In addition to the features mentioned above, the Thermal Imager provide video recording and play back.

2. STRUCTURE DESCRIPTION



- 1. Interface and Cover
 - 1-1. TypeC USB/Charge
 - 1-2. Micro SD card slot
- 2. LCD Display
- 3. Menu/OK Button
- 4. Power/lock Button
- 5. Up/down/Right /Left Button

- 6. FlashLight
- 7. Laser Pointer
- 8. Infrared Camera Lens
- 9. Visual Camera
- 10. Trigger
- 11. Battery

3. SAFETY INFORMATION

- » To prevent eye damage and personal injury, do not look into the laser. Do not point laser directly at persons or animals or indirectly off reflective surfaces.
- » Do not disassemble or do a modification to the Thermal Imager.
- » Do not point the Thermal Imager (with or without the lens cover) at intensive energy sources, for example devices that emit laser radiation, or the sun.
- » This can have an unwanted effect on the accuracy of the camera. It can also cause damage to the detector in the Thermal Imager.
- » Do not use the Thermal Imager in a temperature higher than +50°C (+122°F), lower than -20°C (-4°F). High temperature or low temperature can cause damage to the Thermal Imager.
- » Only use the correct equipment to discharge the battery.
If you do not use the correct equipment, you can decrease the performance or the life cycle of the battery. If you do not use the correct equipment, an incorrect flow of current to the battery can occur. This can cause the battery to become hot, or cause an explosion and injury to persons.
- » Do not pull out the battery when the thermal imager is working.
If you pull out the battery when the thermal imager is working, it may cause the thermal imager work abnormal.
- » Do not disassemble or do a modification to the battery.
The battery contains safety and protection devices which, if they become damaged, can cause the battery to become hot, or cause an explosion or an ignition. If there is a leak from the battery and the fluid gets into your eyes, do not rub your eyes. Flush well with water and immediately get medical care.
- » Do not make holes in the battery with objects. Do not hit the battery with a hammer. Do not step on the battery, or apply strong impacts or shocks to it.
- » Do not put the battery in or near a fire, or in direct sunlight, or other high-temperature locations. Do not solder directly onto the battery.
- » Always charge the battery in the special temperature rang.
- » The temperature range through which you can charge the battery is 0°C to +50°C (+32°F to +122°F). If you charge the battery at temperatures out of this range, it can cause the battery to become hot or to break. It can also decrease the performance or the life cycle of the battery.
- » Do not get water or salt water on the battery, or permit the battery to get wet.
- » Clean the case with a damp cloth and a weak soap solution. Do not use abrasives, isopropyl alcohol, or solvents to clean the case or lens/screen.
- » Be careful when you clean the infrared lens. Do not clean the infrared lens too vigorously. This can damage the antireflective coating.
- » Avoid condensation
Take the Thermal Imager from cold to hot, it will appear condensation in thermal Imager. To protect the Thermal Imager, you should power of the Thermal Imager, wait until the Thermal Imager has become war enough for the condensation to evaporate.
- » Storage
If you do not use the Thermal Imager, put the Thermal Imager in cool and dry environment, if you store Thermal Imager equipped with the battery, the power of the battery will be exhausted.

4. SPECIFICATIONS

Imaging and optical data	
Field of view (FOV) / Minimum focus distance	50° x 37° / 0.5 m
Spatial resolution (IFOV)	7.6 mrad
Thermal sensitivity/NETD	< 0.06°C @ +30°C (+86°F) / 60 mK
Image frequency	25 Hz
Focus mode	Focus free
Zoom	1 ... 16× continuous, digital zoom
Focal length	mm
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.5 ... 14 µm
IR resolution	256x192 pixels
Image presentation	
Display	2.8 in. LCD, 240x320 pixels
Image modes	IR image, Visual image, Auto fusion
Color palettes	IRON, Rainbow, Grey, Grey Inverted, Brown, Blue-red, Hot-cold, Feather
Measurement	
Object temperature range	-20°C ... +550°C (-4°F ... +1022°F)
Accuracy	±2°C (3.6 °F) or ±2% of reading (Environment temperature 10 ... 35°C, Object temperature >0°C).
Measurement analysis	
Spot	Center Spot
Automatic hot /cold detection	Auto hot or cold markers
Measurement corrections	Emissivity, Reflected temperature
Storage of videos	
Storage media	8 GB Micro SD card and 3.4 GB internal EMMC
Video storage format	Standard MPEG-4 encode, 240x320 @ 30 fps, on memory card > 30 minutes
Video storage mode	IR/visual images; simultaneous storage of IR and visual images

Storage of images	
Image storage format	Standard JPEG, or HIR files including measurement data, on memory card > 6000 pictures
Image storage mode	IR/ visual images; simultaneous storage of IR and visual images
Image analyse	Internal image analyse tools, Complete function.
Set-up	
Set-up commands	Local adaptation of units, language, date and time formats, information of camera
Languages	multinational
Digital camera	
Built-in digital camera	2 Megapixels
Built-in digital lens data	FOV 65°
Data communication interfaces	
Interfaces	USB-Type C
USB	Data transform between camera and PC Live video between camera and PC
Wifi	802.11, transfer images and realtime video stream.
Power system	
Battery	Li-ion battery, 4 hours operating time
Input voltage	DC 5V
Charging system	In camera (AC adapter)
Power management	Automatic shutdown
Environmental data	
Operating temperature range	-15°C ... +50°C (5°F ... +122°F)
Storage temperature range	-40°C ... +70°C (-40°F ... +158°F)
Humidity (operating and storage)	10% ... 90%
Drop test	2m
Bump	25g (IEC60068-2-29)
Vibration	2g (IEC60068-2-6)
Physical data	
Camera weight, incl. battery	<500g
Camera size (L × W × H)	224x77x96

5. BEFORE YOU START

5-1. How to Charge the Battery

Before you use the Thermal Imager for the first time, charge the battery for three and three-half hours. The battery status shows on the six-segment charge indicator.

To charge the battery, use follow before:

1. Connect the ac power adapter into an ac wall outlet and connect the dc output to the Thermal Imager's ac power socket, the charge light is on. The battery indicator becomes  →  →  →  →  →  while the battery charges with the ac power adapter.
2. Charge until the charge indicator becomes  the charge icon not changed .
3. Disconnect ac power adapter when the battery is full charged.

Note: Make sure that the Thermal Imager is near room temperature before you connect it to the charger. Do not charge in hot or cold areas. When you charge in extreme temperature, battery capacity may be decreased.

5-2. Power On

To turn the Thermal Imager on, push the Power Button.

Note: After power on the device, The thermal Imager needs sufficient warm-up time for the most accurate temperature measurements and best image quality. So the visible image will first appear, and the thermal sensor will calibrate internal for several seconds. After that the thermal image will be displayed on the screen.

5-3. Power Off

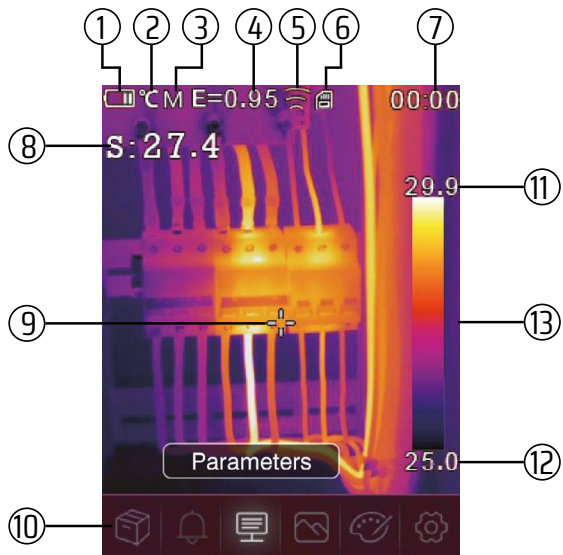
When Thermal Imagers power on, Push and hold the Power Button for two seconds, then popup the power off menu, press "OK" to power off the device.

Push and hold the Power Button for twelve seconds, the device will be forced power off directly.

5-4. Desktop

The Desktop is as follow:

1. Battery capacity status
2. Temperature unit
3. Distance unit
4. Emissivity
5. Wifi status
6. SD card
7. Time
8. Centre point temperature readings
9. Centre point Cross
10. Main menu
11. Max temperature of current scene
12. Min temperature of current scene
13. Color bar



5-5. Shutter

The thermal image of the Thermal Imager becomes blurry, when the Thermal Imager no correcting after some minutes or the Thermal Imager changes target. To get fine thermal image, the Thermal Imager need to correct.

The Thermal Imager has two mode for correcting, Manual and Auto Mode. In Manual Mode, long press the down arrow button, the Thermal Imager will correct. In Auto Mode, the Thermal Imager can correct automatically while The thermal image of the Thermal Imager becomes blurry.

5-6. Temperature Measurement

All objects radiate infrared energy. The quantity of energy radiated is base on the actual surface temperature and the surface emissivity of the object. The Thermal Imager senses the infrared energy from the surface of the object and uses this data to calculate an estimated temperature value. Many common objects and materials such as painted metal, wood, water, skin, and cloth are very good at radiating energy and it is easy to get relatively accurate measurements. For surfaces that are good at radiating energy (high emissivity), the emissivity factor is ≥ 0.90 . This simplification does not work on shiny surfaces or unpainted metals as they have an emissivity of < 0.6 . These materials are not good at radiating energy and are classified as low emissivity. To more accurately measure materials with a low emissivity, an emissivity correction is necessary. Adjustment to the emissivity setting will usually allow the Thermal Imager to calculate a more accurate estimate of the actual temperature. More information please see Emissivity Adjustment to get the most accurate temperature measurements.

5-7. Emissivity Adjustment

The correct emissivity value is important to make the most accurate temperature measurement. Emissivity of a surface can have a large effect on the apparent temperatures that the Thermal Imager observes. Understanding the emissivity of the surface, but may not always, allow you to obtain more accurate temperature measurements.

Note: Surfaces with an emissivity of < 0.60 make reliable and consistent determination of actual temperature problematic.

The lower the emissivity, the more potential error is associated with the Imager's temperature measurement calculations.

This is also true even when adjustments to the emissivity and reflected background adjustments are performed properly.

Emissivity is set directly as a value or from a list of emissivity values for some common materials. The global emissivity displays in LCD Screen as E=x.xx.

The following table gives typical emissivity of important materials.

Material	Emissivity	Material	Emissivity
Water	0.96	Tape	0.96
Stainless steel	0.14	Brass plate	0.06
Aluminum plate	0.09	Human skin	0.98
Asphalt	0.96	PVC plastic	0.93
Concrete	0.97	Polycarbonate	0.80
Cast iron	0.81	Oxidized copper	0.78
Rubber	0.95	Rust	0.80
Wood	0.85	Paint	0.90
Brick	0.75	Soil	0.93

5-8. Reflected Temperature

- » Using the offset factor, the reflection is calculated out due to the low emissivity and the accuracy of the temperature measurement with infrared instruments is improved.
- » In most cases, the reflected temperature is identical to the ambient air temperature.
- » Only when objects with strong emissions with much higher temperature are in the proximity of the object being measured should be determined and used.
- » The reflected temperature has only little effect on objects with high emissivity.
- » The reflected temperature can be set individually.
- » Follow these steps to get the right value for the reflected temperature:
 1. Set the emissivity to 1.0
 2. Adjust the optical lens to near focus
 3. Looking in the opposite direction away from the object, take a measurement and freeze the image
 4. Determine the average value of the image and use that value for your input of reflected temperature.

5-9. Thermal Imager Reporter Software

- » The software is supplied with the Thermal Imager.
- » This Software is intended for Thermal Imager and contains feature to analyze images, organize data and information, and make professional reports.
- » The software allows audio annotations and commentary to be reviewed on a PC.

6. MENUS

The menus, together with buttons, are access for image, measurement, Emiss, Palette, temperature measurement range, take photo and video, review, and settings.

6-1. Main Menu

- » Press "Menu/OK" button, the main menu will be popped up.
- » Main Menu is the main interface of the Thermal Imager's menus.
- » It contains six items such as Gallery, Measure parameters, Image mode, Palette, system Settings.



Gallery: Enter gallery.



Alarm: Set alarm temperature



Parameters: Parameters set for the calculation temperature.



Image mode: Set image source for the display on the Thermal Imager's LCD. It contains six items such as infrared image, visual image and fusion.



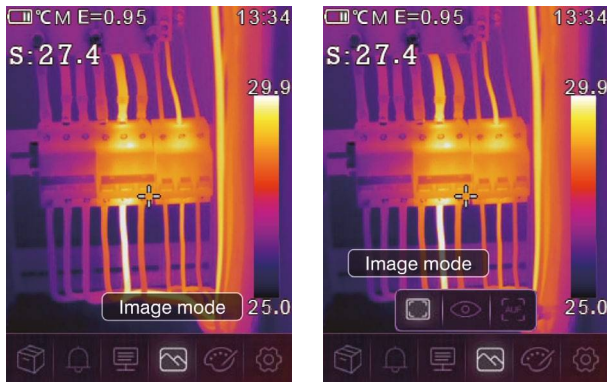
Palette: Set the type of color bar.



Settings: Set for the user preferences such as language, unit of temperature measurement, date, time, restore factory setting and display product information.

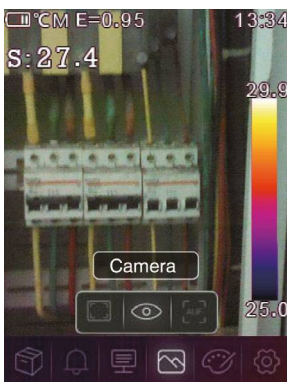
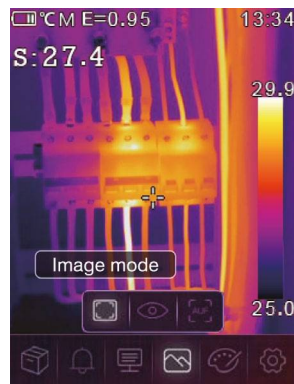
6-2. Image Mode

1. In main menu, press "left" or "right" button, highlight "Image mode".
2. Press "up" button, popup Image submenu which contains five image modes.
3. Press "left" or "right" button, highlight the Image mode which you want to choose.
4. The image mode will change after you choose it.

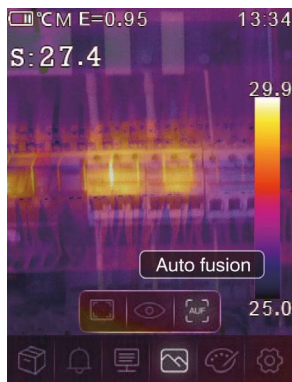


Thermal Imager has 5 kinds of image modes for display. IR, Visible, picture in picture, AUF mode, Zoom mode.

IR: Displays only infrared image;



Visible: Displays only visible image;



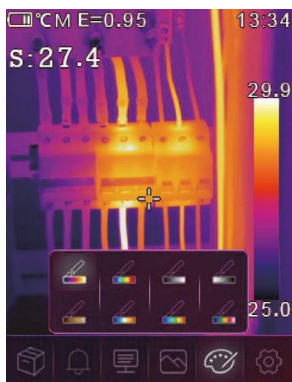
AUF: Auto Fusion mode, compare the centre area temperature with full screen, the machine will calculate the mix ratio of infrared and visible images automatically.

6-3. Image Palette

- » The Image Palette lets you change the false-color presentation of the infrared images on display or captured.
- » A variety of palettes are available for specific applications.
- » The standard palettes offer an equal, linear presentation of colors that allow for best presentation of detail.

Standard Palette

1. In main menu press “left” or “right” button, highlight “Palette”.
2. Press “up” button, popup Image submenu which contains 8 kinds of color palettes.
3. Press “left” or “right” button, highlight the palette which you want to choose.
4. The palette mode will be changed after you choose it.



Iron



Rainbow



Grey



Grey invert



Brown hot



Blue red



Hot cold



Feather

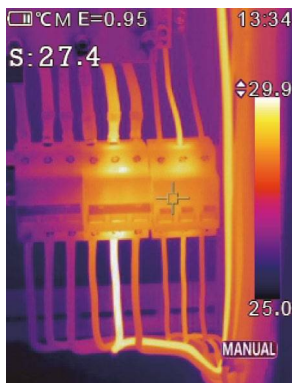
6-4. Image Adjustment

There are three kinds of mode for image adjustment, hisgram, Auto and Manual.

6-4-1. Lock operation

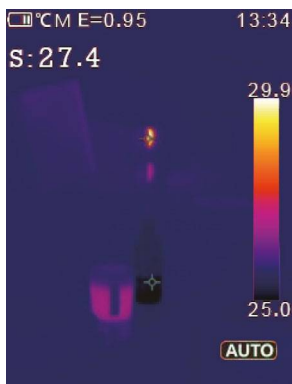
Press “power” button to lock the current scene temperature range. “lock” means Manual.

After locked the current scene temperature range, press the a, you can adjust the high/low temperature level to see what temperature your interested range image.



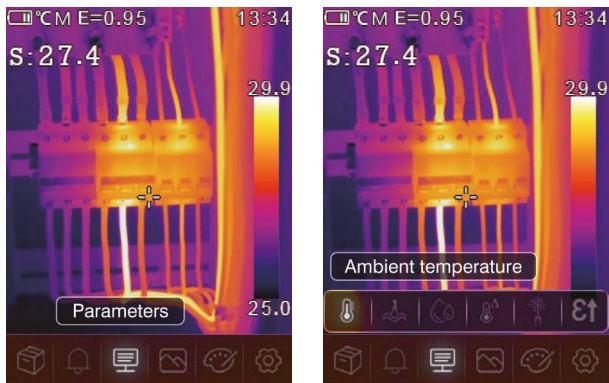
6-4-2. Histogram mode and Auto mode

- » **Auto mode:** Level and span are decided by the thermal image of minimum temperature and maximum temperature. The relationship between temperature and color is linear.
- » **Histogram mode:** The thermal image is enhanced by histogram algorithm, The relationship between temperature and color is not linear. Some part of the image is enhanced.
- » Press “power” button to change the mode.



6-5. Parameter menu

In main menu, press “left” or “right” button, highlight “parameters”, press “up” button, popup Object parameter submenu.



6-5-1. Ambient temperature composition

- » In ambient temperature submenu, press “left” and “right” arrow to change the temperature values.
- » Ambient temperature will affect the measurement of the thermal imager, it can be composite from 0 degree to 50 degree.



6-5-2. Reflective temperature

- » In reflective temperature submenu, press “left” and “right” arrow to change the temperature values.
- » The reflective temperature is important for radiometric temperature measurement. Thermal Imager has temperature compensation for reflective temperature.
- » To get more accurate temperature measurement, accurately set the reflective temperature.
- » In most cases, the reflected temperature is identical to the ambient temperature.
- » Only when objects with strong emissions with much higher temperature are in the proximity of the object being measured, the reflected temperature must set.



6-5-3. Atmospheric humidity

- » In Atmospheric humidity submenu, press “left” and “right” arrow to change the temperature values.
- » Water droplets in the air can absorb infrared rays. The wet air can affect the measurement of the temperature's accurate, the compensation humidity can be set from 10% ... 100%.



6-5-4. Delta temperature compensation

In delta temperature submenu, press “left” and “right” arrow to change the temperature values.



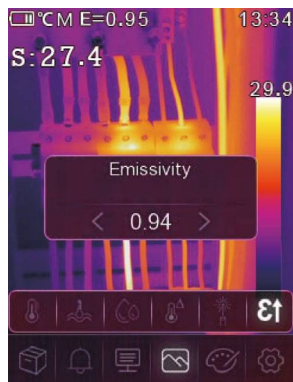
6-5-5. Distance

- » In distance submenu, press “left” and “right” arrow to change the distance values.
- » There are many substances in the air that can absorb infrared rays. So the infrared ray of the object will be decayed as the distance increases. The distance can be set from 2 m ... 1000 m.



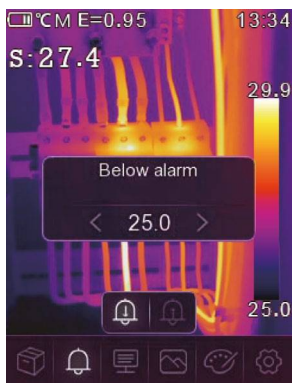
6-5-6. Emissivity

- » In emissivity submenu, press “left” and “right” arrow to change the emissivity values.
- » “Emiss” sets object emissivity, the value range is 0.01 ... 1.00;



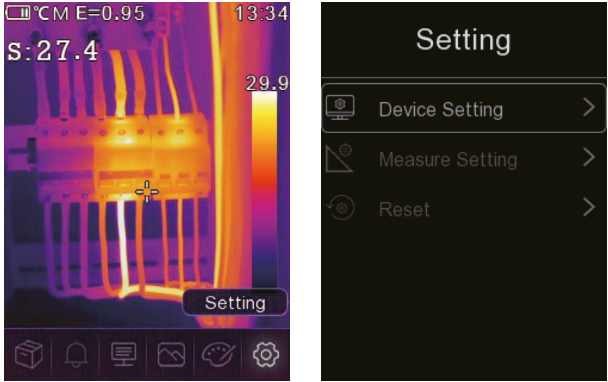
6-5-7. Alarm mode

- » **OFF:** Turn off the alarm display and sound.
- » **Above alarm:** If the temperature of the object exceeds the above alarm value, there will be alarm sound and display.
- » **Below alarm:** If the temperature of the object below the low alarm value, there will be alarm sound and display.



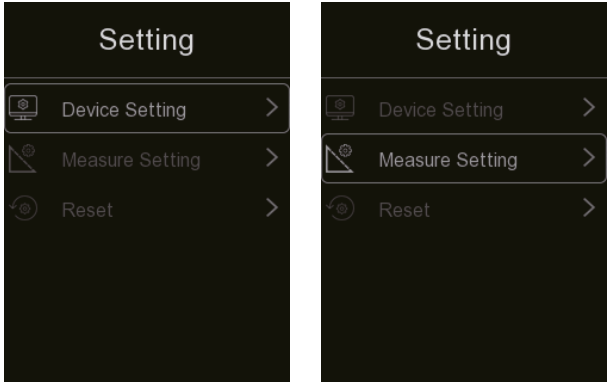
6-6. Settings menu

- 1. In main menu, press “left” or “right” button, highlight “Settings”.
- 2. The Settings menu will display.



6-6-1. Device setting

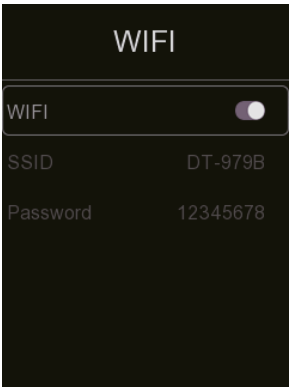
There are multipages in Device setting, use down button to go to next item, or use up button to go to previous item.



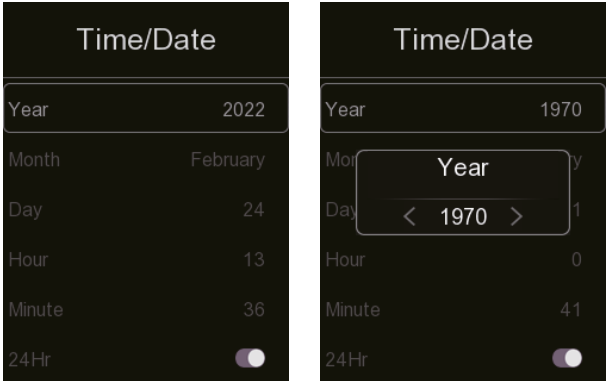
Brightness: Drag the slider bar to adjust the LCD brightness



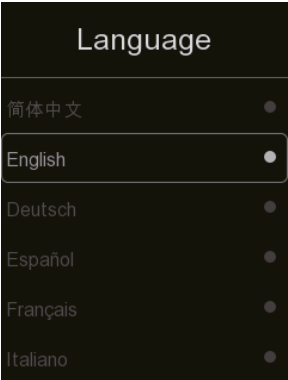
WIFI: Press “Menu/ok” button to turn on the wifi, the wifi model worked on Access Mode, so it is need to set the SSID and Password to allow other device connect to it. The default SSID is “xxxxx”, the default password is “12345678”.



Time Date: Press up or down button to select year, month and so on, then press “Menu/ok” or “Right” button to change time/date.

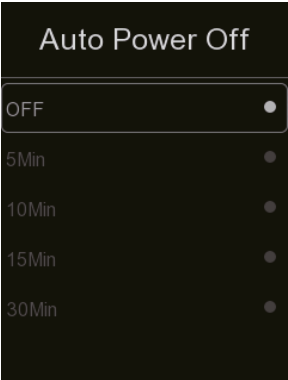


Language: Press UP/DOWN button to select language and use MENU/OK button to set selected language to be valid.



Auto Power Off:

- » There are four options in auto power off menu, as follows: "OFF", "5Min", "10Min", "15Min", "30Min".
- » When press MENU/OK button, the timer of Auto Power Off will be cleared and re-timed.



Info: The info menu contains all of the product information, such as: software version, serial number and so on.

About	
Producer	XXX
Product Date	2019.07.01
Serial Number	0123-4567-89AB
Software	V2.90
Storage	7.4G

6-6-2. Measure setting

- » Select the “Measure setting” menu, the Measure Setting menu will be displayed.
- » There are several options in Measure setting menu, as follow picture.

Setting	Measure Setting
 Device Setting >	 Max Temp ☐
 Measure Setting >	 Min Temp ☐
 Reset >	 Distance Unit >
	 Temp. Unit >
	 Temp. Range >
	 Emissivity >

Max Temp

Press MENU/OK button to turn on or turn off maximum temperature measurement.

Min Temp

Press MENU/OK button to turn on or turn off minimum temperature measurement.

Distance Unit

» Change the distance unit between “m” and “ft”, “m” means meter, ft means Foot.

» $1(\text{ft})=0.3048(\text{m})$; $1(\text{m})=3.2808399(\text{ft})$

Distance Unit

m

Ft

Temperature unit

» Temperature Unit have three types to choose: °C, °F and K.

» Conversion relationship: $^{\circ}\text{F}=1.8 \times ^{\circ}\text{C} + 32$, $\text{K}=273.15+^{\circ}\text{C}$.

Temp. Unit

Celsius (°C)

Fahrenheit (°F)

Kelvin (K)

Temperature range

» The temperature measurement ranges have -20 ... 50 °C and 0 ... 550 °C to choose.

» The overlap temperature of the two ranges is more accurate to choose -20 ... 150 °C

Temp. Range

-20~150°C

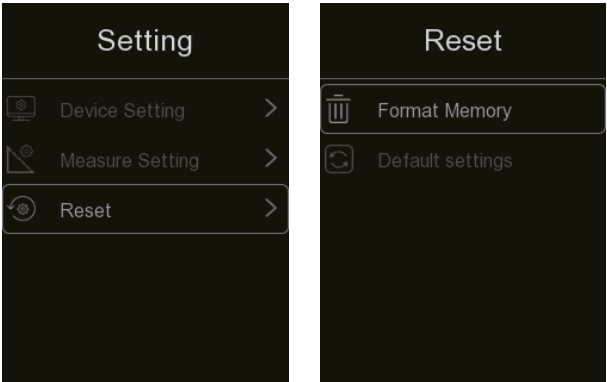
0~550°C

Image Align

Press arrow buttons to adjust the vision's position to align the vision and infrared. Press "Power/Lock" button to cancel the setting, press "Menu/Ok" button to save the alignment setting.



6-6-3. Reset



Format Memory

Format Memory operation will format all the Picture Gallery, the device setting is not affected.



Factory Settings

Factory Settings of the Thermal Imager is as follow:

Item	Parameter	Value
Measurement	Center Spot Measurement	on
	Hot Spot Measurement	off
	Cold Spot Measurement	off
Measurement Parameters	Emissivity	0.95
	Reflective temperature	25°C
System Setting	Language	English



6-7. Camera Menu

Thermal Imager has photo and video functions. In photo function, the Imager can save thousands of images. Every image resolution is 1280*960, format is .jpg, and stores infrared data and visible data in an image. In video function, the Imager has .mp4 video capture for hours, and save infrared data in .mp4 format.

Note: Images and video files are stored in SD Memory Card. Images can easily be read and second analyzed within Thermal Imager PC software.

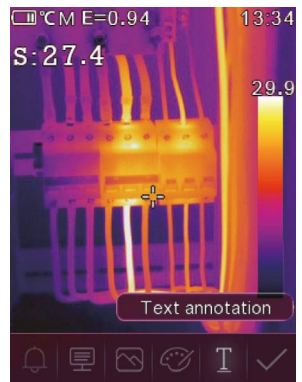
6-7-1. Save Image

1. In desktop, press Trigger button, freeze an image. The save menu will display.
2. Press "left" or "right" button, highlight "Save". Press "Menu/ok" button to save image, and the image will flash for a second, after the image is saved, the image will be unfreezed.



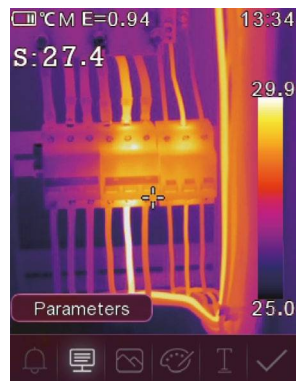
6-7-2. Add Text note

- Press "left" or "right" button, highlight "Text annotation", then press "Menu/ok" button. It can add some text information into the picture, next time if the saved picture opened in gallery or PC software, the text info will displayed with the picture.



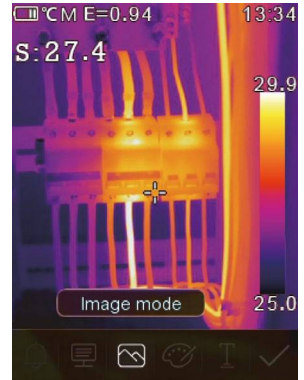
6-7-3. Change measure parameters

- Press "left" or "right" button, highlight "parameters", then press "Menu/ok" button. It can change the image's measure parameters: Emissivity, ambient temperature, humidity, reflect temperature, infrared compensation, distance.



6-7-4. Change image mode

It can change the image mode: thermal,visible ,Auto fusion.



6-7-5. Change color

It can change the image color.



6-8. Video Menu

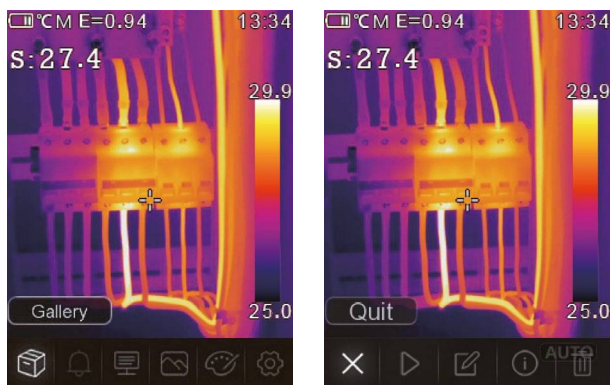
The Thermal Imager has .mp4 video capture.

1. In desktop, press Trigger button and hold for about 2 seconds, start video capture with voice.
2. To stop video capture, press Trigger button again. The video saved in the video file.



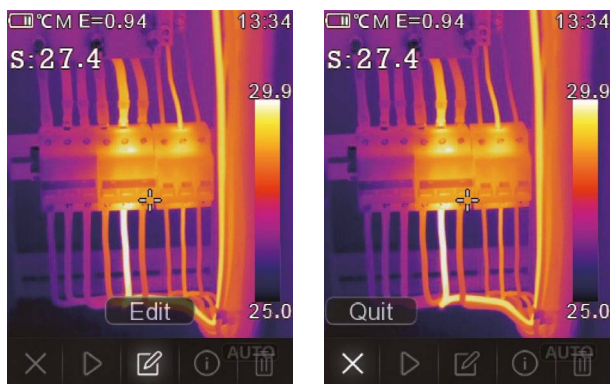
6-9. Files Browser

In main menu, Press "left" or "right" button, highlight "Gallery", then press "Menu/ok" button to popup files Browser, Which displays pictures and videos saved in SD Memory Card.



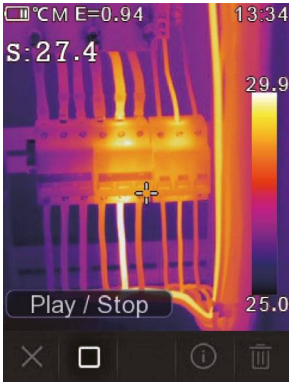
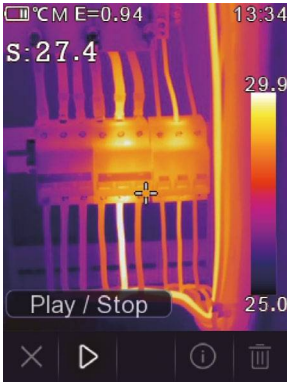
6-10. Analyse an image

When current file type is image, press "left" or "right" button, highlight "Edit", then press "Menu/ok" button to enter image analysis mode. Which can change the measure parameters,analyse tools, image mode and color on the image.



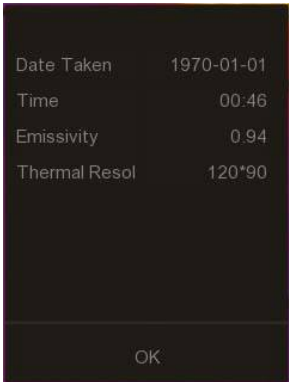
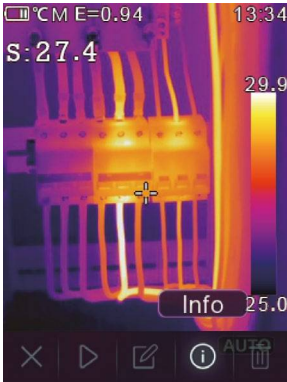
6-11. Play a video

When current file type is video, press “left” or “right” button, highlight “Play / Stop”, then press “Menu/ok” button to play video.



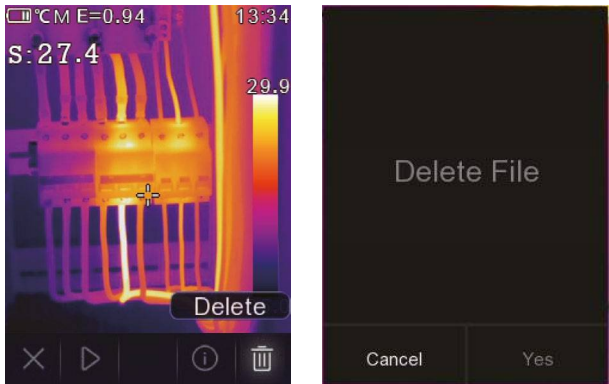
View image info

Press “left” or “right” button, highlight “Info”, then press “Menu/ok” button to view the current file info.



Delete a file

Press “left” or “right” button, highlight “Delete”, then press “Menu/ok” button to delete the current file.



6-12. USB Mode

Connect USB cable to device, popup the menu as follow:

There are two modes for USB, Storage and PC Camera. Press up or down button to switch mode.

1. Storage

Browse files stored on the SD card on your computer.

2. PC Camera

The device is a USB camera for your computer.

7. FAULT DIAGNOSIS AND EXCLUSION

- » If you encounter any problems while using the thermal imager, overhaul according to the following table.
- » If the problem persists, disconnect the power and contact with the company's technical support department.

The fault	Cause of the fault	Solution
Thermal imager cannot start	No battery	Inserting the battery
	No power	Replace the battery or charge it
Thermal imager shut down	No power	Replace the battery or charge it
No Thermal image	The lens cap cover	Opened the lens cap

8. ANDROID/IOS APP THERMVIEW

8-1. Software install and uninstall

8-1-1. System required

Android mobile phone: Android 4.0 above, with USB OTG Support

iOS: iPhone4 above

8-1-2. Thermoview App install

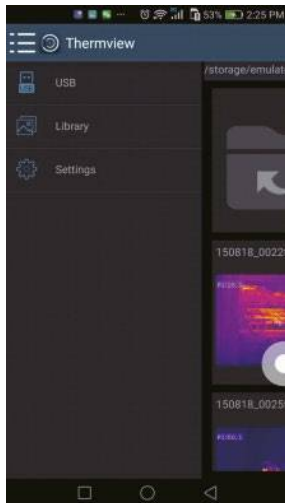
Android: Search "Thermoview" on Google Play and install it.

iOS: Search "Thermoview" on Apple Store and install it.

8-2. Thermview function

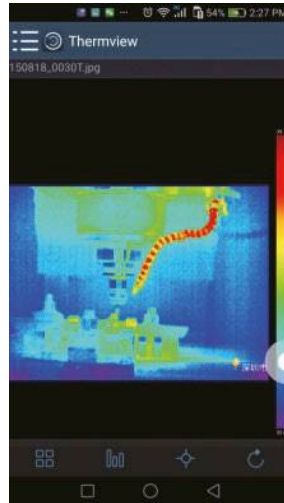
8-2-1. Import pictures

1. Use the USB OTG cable download the IR pictures from the thermal imager directly.
2. Copy the IR pictures from PC or SD card.



8-2-2. Analyse

Select a IR Picture and click „pencil“ icon to analyse it.



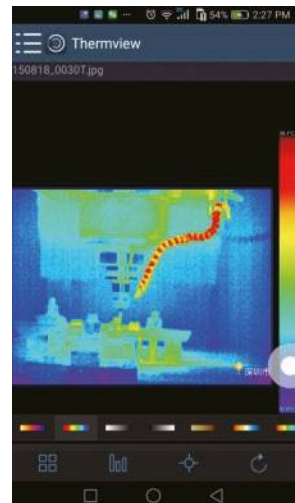
1. Image mode

Click  icon to select image mode, there are four mode for you to select.

- (1)  IR mode: only infrared picture displayed.
- (2)  Visible mode: only visible picture displayed.
- (3)  IR fusion mode: The infrared picture is fusioned with visible picture.
- (4)  Visible fusion mode: full screen fusion, the visible picture is fusioned with infrared picture.

2. Colorbar select.

Click  icon to select colorbar. There are eight colorbar for you choice.



3. Analyse

Click  icon to analyse the IR pictures. There are three analyse tools:

- (1)  Point Analyse: Add a point to the picture, it will display the temperature of the point.
- (2)  Line Analyse: Add a line to the picture, it will display the highest, lowest and average temperature of the line.
- (3)  Area Analyse: Add a rectangle to the picture, it will display the highest, lowest and average temperature of the rectangle.



4. Save and Exit

Click  to save and return to the main page of the APP.

8-2-3. Report and Share

1. Report

Click  icon to report as a .pdf file.



2. Share

Click  icon to share the Infrared picture with Email, Cloud or Message and so on.

9. PC SOFTWARE

9-1. System required

Window XP or higher version of Windows system, please make sure you have installed Net Framework 2.0 or Net Framework 3.5(include 2.0)when you install PCIMeter software. If not, please find and install our Microsoft. NET_Framework_v2.0.exe that provided to you.

Open the net framework 2.0,Follow all tips to install Net Framework 2.0 till it finishes.

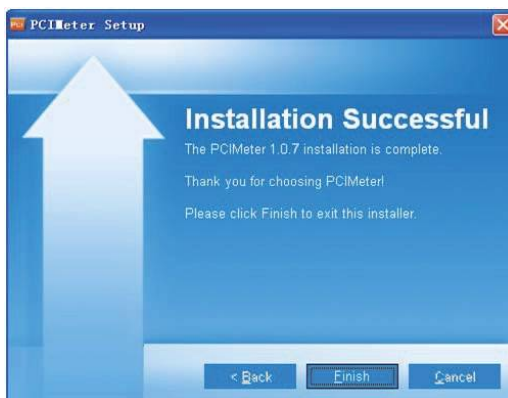
If your system already have installed Net Framework 2.0, then no need to install again.

9-2. IRMeter install

You can insert your installation CD to install directly if you have one, or you can run „setup.exe“ to install it as follow.



Click „Next“ to install, till finish installation.



Installation Successful after click „Finish“ like above.

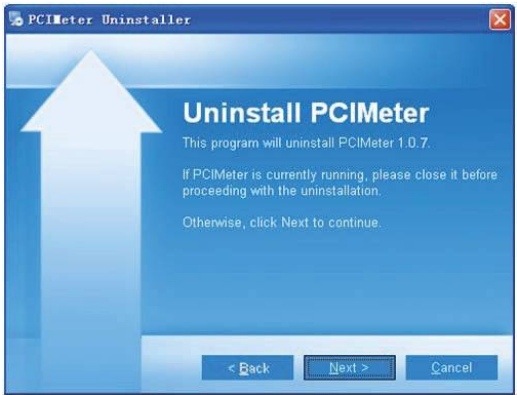
9-3. Running

After ensuring PCIMeter software has been installed, click shortcuts on the desktop or start menu to run the software.



9-4. Uninstall

Uninstall PCIMeter in the start menu as follow, then click „Next“ to finish uninstall.



DISPOSAL

For the disposal of batteries in the EU, the 2006/66/EC directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose. In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law. For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations. If you have any questions, please contact PCE Instruments.

PCE INSTRUMENTS CONTACT INFORMATION

Germany

PCE Deutschland GmbH
Im Langel 26
D-59872 Meschede
Deutschland
Tel.: +49 (0) 2903 976 99 0
Fax: +49 (0) 2903 976 99 29
info@pce-instruments.com
www.pce-instruments.com/deutsch

France

PCE Instruments France EURL
23, rue de Strasbourg
67250 Soultz-Sous-Forêts
France
Téléphone: +33 (0) 972 3537 17
Numéro de fax: +33 (0) 972 3537 18
info@pce-france.fr
www.pce-instruments.com/french

Spain

PCE Ibérica S.L.
Calle Mula, 8
02500 Tobarra (Albacete)
España
Tel.: +34 967 543 548
Fax: +34 967 543 542
info@pce-iberica.es
www.pce-instruments.com/espanol

United Kingdom

PCE Instruments UK Ltd
Trafford House
Chester Rd, Old Trafford
Manchester M32 0RS
United Kingdom
Tel: +44 (0) 161 464902 0
Fax: +44 (0) 161 464902 9
info@pce-instruments.co.uk
www.pce-instruments.com/english

Italy

PCE Italia s.r.l.
Via Pesciatina 878 / B-Interno 6
55010 Loc. Gragnano
Capannori (Lucca)
Italia
Telefono: +39 0583 975 114
Fax: +39 0583 974 824
info@pce-italia.it
www.pce-instruments.com/italiano

Turkey

PCE Teknik Cihazları Ltd.Şti.
Halkalı Merkez Mah.
Pehlivan Sok. No.6/C
34303 Küçükçekmece - İstanbul
Türkiye
Tel: 0212 471 11 47
Faks: 0212 705 53 93
info@pce-cihazlari.com.tr
www.pce-instruments.com/turkish

The Netherlands

PCE Brookhuis B.V.
Twentepoort West 17
7609 RD Almelo
Nederland
Telefoon: +31 (0)53 737 01 92
info@pcebenelux.nl
www.pce-instruments.com/dutch

United States of America

PCE Americas Inc.
1201 Jupiter Park Drive, Suite 8
Jupiter / Palm Beach
33458 FL
USA
Tel: +1 (561) 320-9162
Fax: +1 (561) 320-9176
info@pce-americas.com
www.pce-instruments.com/us

Denmark

PCE Instruments Denmark ApS
Birk Centerpark 40
7400 Herning
Denmark
Tel.: +45 70 30 53 08
kontakt@pce-instruments.com
www.pce-instruments.com/dansk

Subject to change without notice