

HIGH PERFORMANCE THERMAL IMAGER

Surface temperature rapid screening instrument

DT-982Y



1. 20ms fast thermal imaging temperature measurement
2. High and low temperature automatic capture
3. Alarm setting at 37.3°C, user settable
4. Sound color alarm prompt
5. Large external display can be connected
6. $\pm 0.5^{\circ}\text{C}$ temperature measurement accuracy
7. Temperature can be quickly surveyed in a large area
8. Screen temperature screening mode
9. Specially designed for epidemic prevention
10. $^{\circ}\text{C}/^{\circ}\text{F}$ user selectable

QUICK AND LARGE-SCALE CENSUS TEMPERATURE MEASUREMENT

20MS RAPID TEMPERATURE MEASUREMENT

Within the screening temperature range of 32~42°C, Adopt $\pm 0.5^{\circ}\text{C}$ high precision surface temperature screening mode, When passengers pass through the entrance, Automatic temperature measurement for long distance, large area and large passenger flow



**$^{\circ}\text{C}$ or $^{\circ}\text{F}$
user
selectable**

Automatic snapshot & alarm indication over set alarm value

The system defaults to 37.3°C as the high-temperature alarm value. If the temperature is over 37.3°C, the device will issue a "beep beep" sound alarm prompt.

The alarm value can also be changed by the user.



High temperature automatic alarm prompt

If the temperature exceeds 37.3°C, the device will emit a high temperature sound prompt on the screen.



±0.5°C HIGH PRECISION SURFACE TEMPERATURE SCREENING

Using high-quality sensors and imported electronic components can accurately extract abnormal temperature values outside the set range during surface temperature screening

NON-CONTACT TEMPERATURE MEASUREMENT, MAKE QUARANTINE PERSONNEL SAFER

After the equipment is deployed on the monitoring site, quarantine personnel can observe the infrared dynamic monitoring screen of the external display in the safe office area, which can avoid the detection personnel from close contact with the detected personnel



EXTERNAL LARGE DISPLAY TERMINAL ON-SITE MONITORING IS MORE EFFICIENT

By adding a tripod and connecting to a large external display mode, the equipment is deployed at the entrances and exits of public places such as airports, stations, subway stations, banks, and supermarkets. Alarm in time



Note: The tripod is standard, the monitor needs to be prepared by yourself

HIGH AND LOW TEMPERATURE AUTOMATIC TRACKING

Automatically track the highest / lowest temperature, easily find the abnormal temperature in the detection area.



S: Aiming point temperature
H: Highest temperature

SURFACE TEMPERATURE SCREENING MODE

(Easy to find abnormal temperature in the detection area)

During infrared measurement, the high and low temperature range can be locked as needed. DT-980Y will automatically shield the temperature outside this area (below this range will not be displayed, and above this range will be displayed with white dots)



Unlock mode

Interval lock mode



HIGH-QUALITY PICTURE

2.8" HD screen

Support photo and video functions

160X120 RESOLUTION

The image is clearer

More accurate temperature measurement



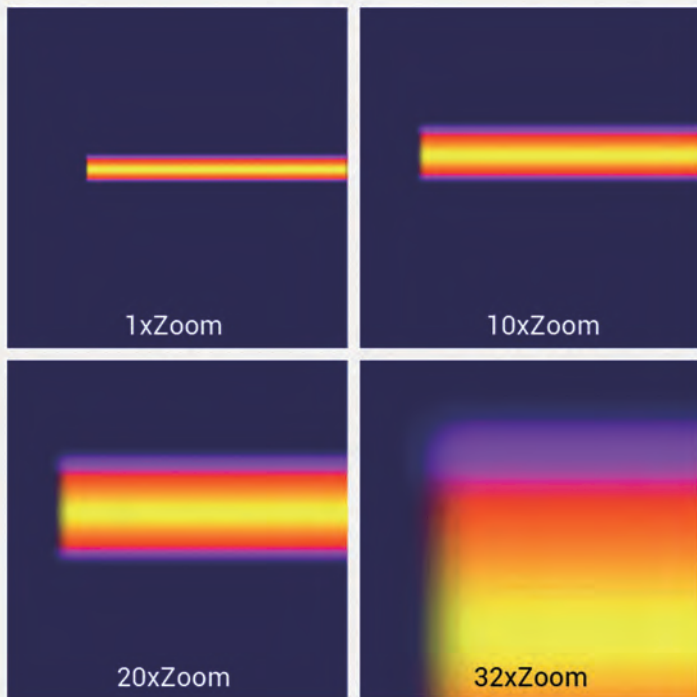
50HZ HIGH FRAME RATE

Refresh the screen 50 times per second

50Hz high frame rate imaging makes it possible to obtain a smoother picture and fine image quality during measurement.

32X CONTINUOUS DIGITAL ZOOM

The compact body has a 32x digital zoom, combined with manual focus, makes the work more arbitrary, the distance is no longer a problem



5 MILLION PIXEL VISIBLE LIGHT CAMERA

The high-definition camera and video camera allow CEM users to analyze the temperature measurement site in more detail. In addition, they are equipped with 100M internal storage and 8G standard high-speed memory card.



5 MILLION PIXEL VISIBLE LIGHT FUSION

5 million pixels visible light fusion infrared, can more directly and clearly identify the hair Hot parts make it easier to troubleshoot fever personnel.



SMALLER SPATIAL RESOLUTION IFOV



Spatial resolution refers to the minimum distance between two adjacent targets that the infrared camera can recognize. It determines the sharpness of the infrared camera and is the smallest size that the camera can measure. The smaller the value, the higher the performance.

THERMAL IMAGER AUF TECHNOLOGY

Infrared thermal imaging and visible light imaging automatic fusion technology (AUF), Make sure the thermal image is clearer and more accurate.





Double injection body, durable.
Industrial design, 2 meters
drop resistance

2 meters

OTG LINE TO TRANSMIT DATA TO MOBILE PHONE

Free and powerful professional analysis software

Reading and analyzing infrared images greatly improves the efficiency of on-site image analysis after temperature measurement.



ThermView+

'Thermview+' for Android:

Please search for 'Thermview+' keywords in the Google play app market, download and run.

'Thermview+' for iOS:

Please search for 'Thermview+' keywords in the Apple store, download and run.

Gain insight into trouble before it happens



Effectively use the CEM DT-982Y
also for industrial applications like:

- # Distribution networks at Substations.
- # Thermovision hot-spot scanning for Transformers, Jumpers, Clamps, Isolators, CT & PT etc.
- # Electrical & Mechanical Maintenance
- # Predictive & Preventive maintenance
- # Non-destructive testing
- # Power Distribution, efficiency analysis & loss prevention
- # HVAC, efficiency analysis & loss prevention
- # Bearing, Motors, Conveyor Systems, etc analysis to determine points of potential failure and many more applications in all industries



DT-982Y THERMAL IMAGER SPECIALLY CALIBRATED FOR HUMAN BODY TEMPERATURE

SPECIFICATIONS	
Imaging & Optical Data	
Field of View (FOV) / Minimum Focus Distance	19°x25° / 0.5m (9mm) General 22.6°x29.8° / 0.5m (7.5mm) Wide-angle type 9°x12° / 0.5m (19mm) Long focal length type
Spatial Resolution (IFOV)	2.78mrad (9mm) General 3.78mrad (7.5mm) Wide-angle type 1.31mrad (19mm) Local focal length type
Thermal Sensitivity/NETD	< 0.1°C @30°C (86°F) / 100 mK
Image Frequency	50Hz
Focus Mode	Manual
Zoom	1-32 continuous, Digital Zoom
Focal Length	9mm, Optional 7.5mm/19mm
Focal Plane Array (FPA) / Spectral Range	Uncooled microbolometer / 8-14 mm
IR Resolution	160 x 120 pixels
Image Presentation	
Display	2.8 in. LCD, 240x320 pixels
Image Modes	IR Image, Visual Image, Image Fusion
Colour Palettes	IRON, Rainbow, Grey, Grey Inverted
Measurement	
Object Temperature Range	Filter Mode: 32°C to 42°C (89.6°F to 107.6°F) -20°C to +150°C (-4°F to +302°F) 0°C to +350°C (+32°F to +662°F)
°C / °F	User selectable
Accuracy	±0.5°C in 32°C to 42°C specially calibrated for human body temperature range. ±2°C (±3.6°F) or ±2% of reading (environment temperature 10°C to 35°, object temperature > 0°C).
Measurement Analysis	
Spot	Centre Spot
Automatic Hot/Cold Detection	Auto hot or cold markers
Emissivity Correction	Variable from 0.01 to 1.0
Measurement Corrections	Emissivity, Reflected temperature
Human body screening temperature alarm	Default 37.2°C / 98.9°F, can be set by user as well
Storage of Videos	
Storage Media	8 GB Micro SD card
Video Storage Format	Standard MPEG-4 encode, 1280x960@30fps, on memory card > 60 minutes
Video Storage Mode	IR/visual images; simultaneous storage of IR and visual image
Storage of Images	
Image Storage Format	Standard JPEG, including measurement data, on memory card > 6000 images
Image Storage Mode	IR/visual images; simultaneous storage of IR and visual image
Set-up	
Laser	< class2
Set-up Commands	Local adaptation of units, language, date & time formats, camera information
Languages	Multi-language
Digital Camera	
Built-in Digital Camera	5 Megapixels
Built-in Digital Lens Data	FoV 59°
Data Communication Interfaces	
Interfaces	USB-mini, Audio, HDMI, Bluetooth
USB & Bluetooth	Data transfer between Camera and PC Live video between Camera and PC
Video Out	HDMI and Bluetooth
Power System	
Battery	Li-ion Battery, 4 hours operating time
Input Voltage	DC 5V
Charging System	In Camera (AC Adaptor)
Power Management	Automatic shutdown
Environmental Data	
Operating Temperature Range	-15°C to +50°C (5°F to +122°F)
Storage Temperature Range	-40°C to +70°C (-40°F to +158°F)
Humidity (Operating & Storage)	10% ~ 90%
Drop Test	2m
Bump	25g (IEC60068-2-29)
Vibration	2g (IEC60068-2-6)
Physical Data	
Camera Weight, including Battery	< 500g
Camera Size (L x W x H)	224 x 77 x 96 mm



- Up / Zoom in key (1 ~ 32x digital zoom magnification)
- Menu / Enter key
- Left / Infrared Laser Key
- File browse key
- Down / Zoom out key (1 ~ 32x digital zoom magnification)
- Lock / Cancel key
- Right / LED light key
- Power button
- Trigger key (Shortcut key for photo and video)



• function button

- Laser pointer
- camera
- LED lights

• Infrared lens

Product standard



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