DT-9897Y Thermal Imager Datasheet

CEM DT-9897Y

AI Intelligent Infrared Thermal Imaging Temperature Screening Instrument.

AI face recognition

Intelligent anti-epidemic weapon

New features presented

Over 37.3 ℃
Automatic alarm

± 0.5 ℃
High precision

Automatic statistics
Monitoring number

Intelligent AI
Face recognition

Infrared sensor
resolution
384 * 288

50Hz image
Frame rate

3.5 inches
HD TFT

Abnormal frontal
temperature
Auto-tagging

1-32 X
Electronic zoom

Picture in picture
Fusion function

HD photos
And video

WIFI
Connectivity

recording
function

AUF infrared
thermal imaging
Automatic fusion
with visible light

USB interface
output

Product Features

— 01 —

Intelligent AI face recognition, automatically counting the number of people tested

Support automatic face recognition, automatically filter other heat sources outside the human body, and count the number of temperature measurement

— 02 —

Simultaneous temperature measurement of 10 people in 20 milliseconds, fast and efficient to avoid congestion

Infrared thermal imaging temperature measurement has fast response speed and high efficiency, and can measure up to 10 people at the same time in 20 milliseconds.

37.3 ℃ high temperature automatic alarm prompt

— 03 —

The system default setting is 37.3 ℃ as the high temperature alarm value, it will automatically capture the temperature value exceeding 37.3 ℃, and give an alarm by sound and color.

High temperature color alarm

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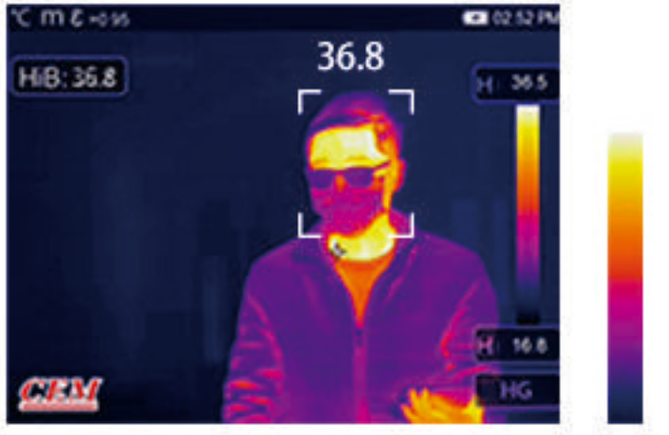
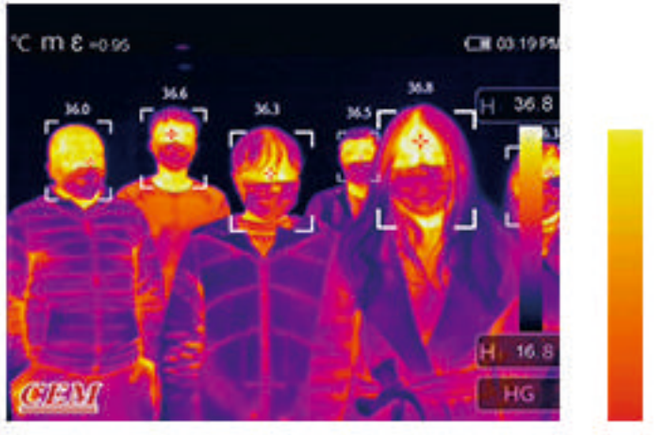
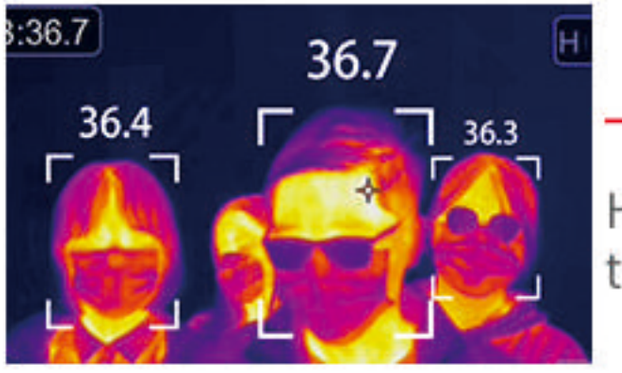


High temperature color alarm



— 04 —

Automatic marking of abnormal forehead temperature, snapshot real-time picture and data



H: abnormal temperature

It will automatically mark the abnormal temperature data within the monitoring range of the device, and automatically mark and capture snapshots, and store the instantaneous screen and temperature values

Use imported sensors to quickly capture instantaneous scene temperature

— 05 —

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, reducing the risk of infection for quarantine personnel

— 06 —

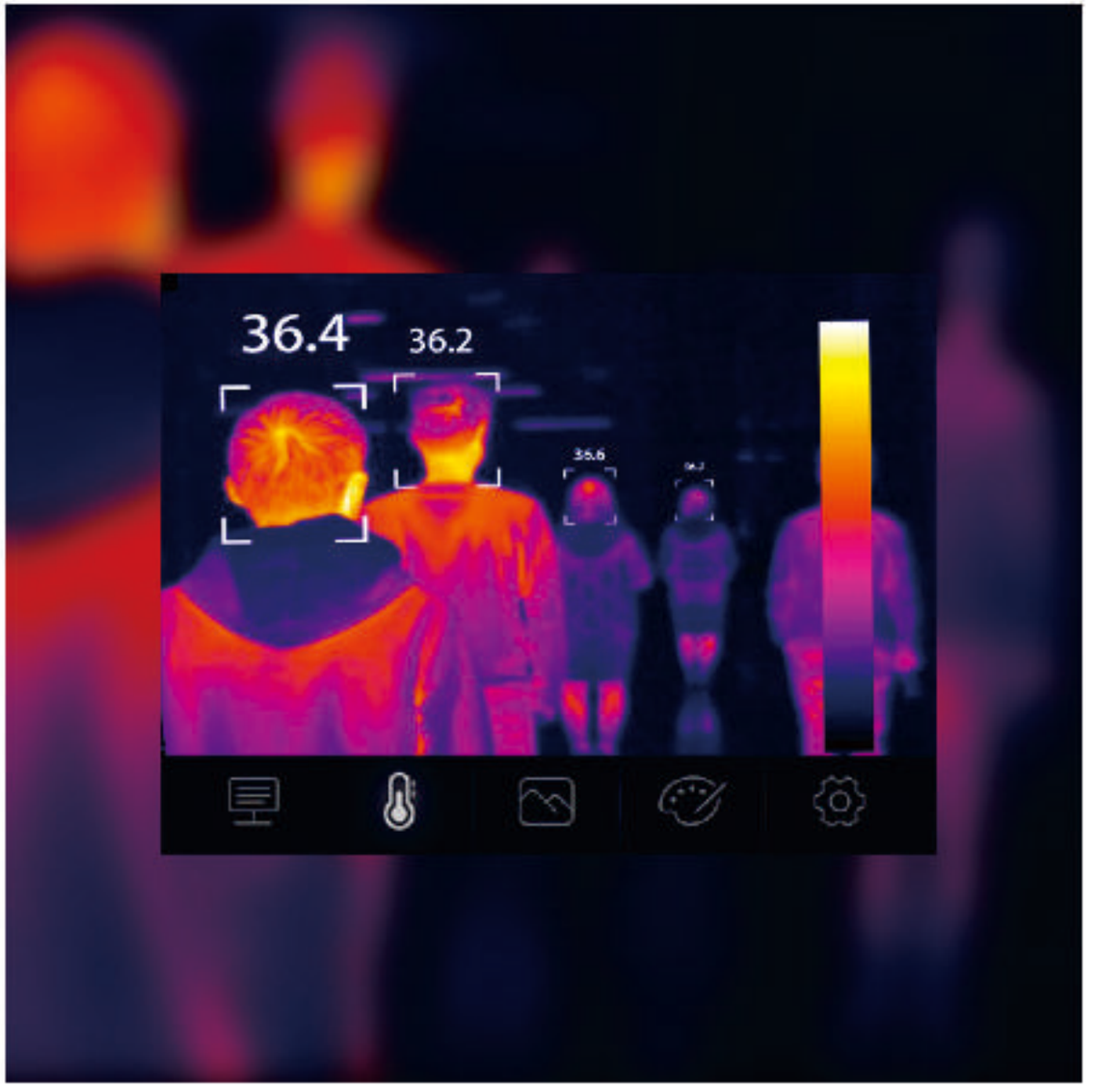
After the equipment is deployed at the monitoring site, the quarantine personnel can observe the infrared dynamic monitoring picture of the external display screen in the safe office area, which effectively prevents the inspector from contacting potential patients at close range.

— 07 —

Can display external large screen, HDMI HD output photos and videos

By adding a tripod and connecting a large-screen display mode, the device can be deployed at the entrances and exits of public places such as airports, stations, subway stations, banks, commercial supermarkets, etc., which can be monitored 24 hours a day, to achieve reliable screening of high-temperature objects and Prompt alarm

3.5 " high-definition color TFT touch screen for clearer observation



AUF infrared imaging and visible light automatic fusion technology


CEM
DT-9897Y
Thermal Imager
Wi Fi

Flexible handheld detection

Meet the needs of screeners for targeted detection of special objects and flexible application in multiple scenarios

3.5-inch high-definition touch screen

Delicate imaging, AUF automatic fusion
makes the picture clearer, easy to find problems

High and low temperature automatic capture

Find problems faster and easierAccurately
identify potential problems


Thermal Imager
Model: DT-9897
CEM
384 x 288
Pixels
InfraRed Lens
F/1.0
f=2mm


InfraRed Lens


Thermal Imager
Menu
OK

Auto-tracking image annotation, voice recording function

Find problems faster and easier to pinpoint potential problems

S: Aiming point temperature

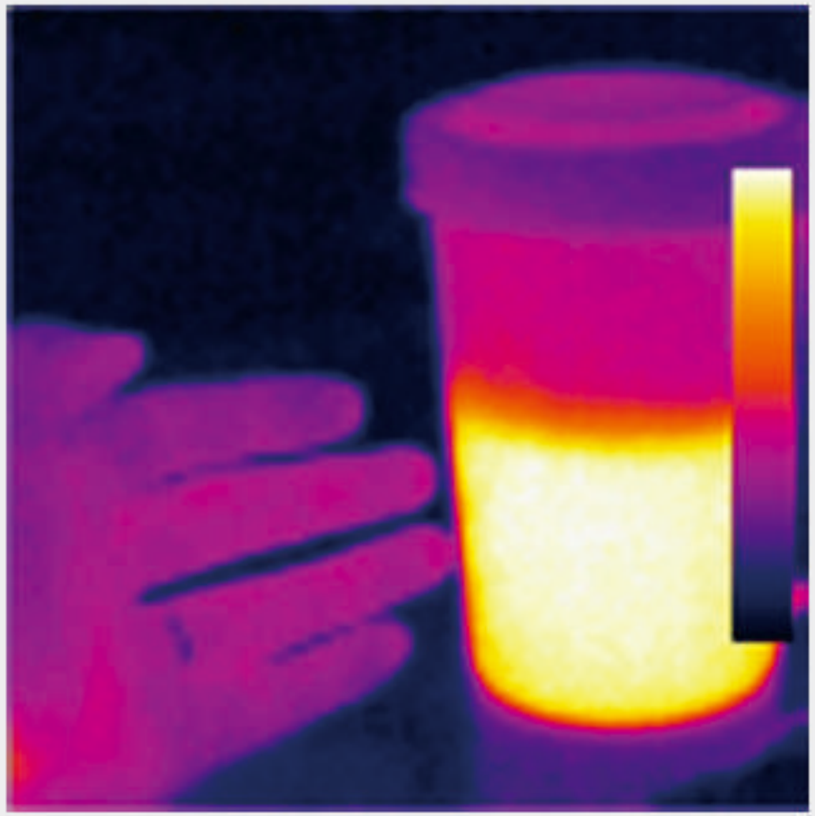
H: Maximum temperature

C: Minimum temperature

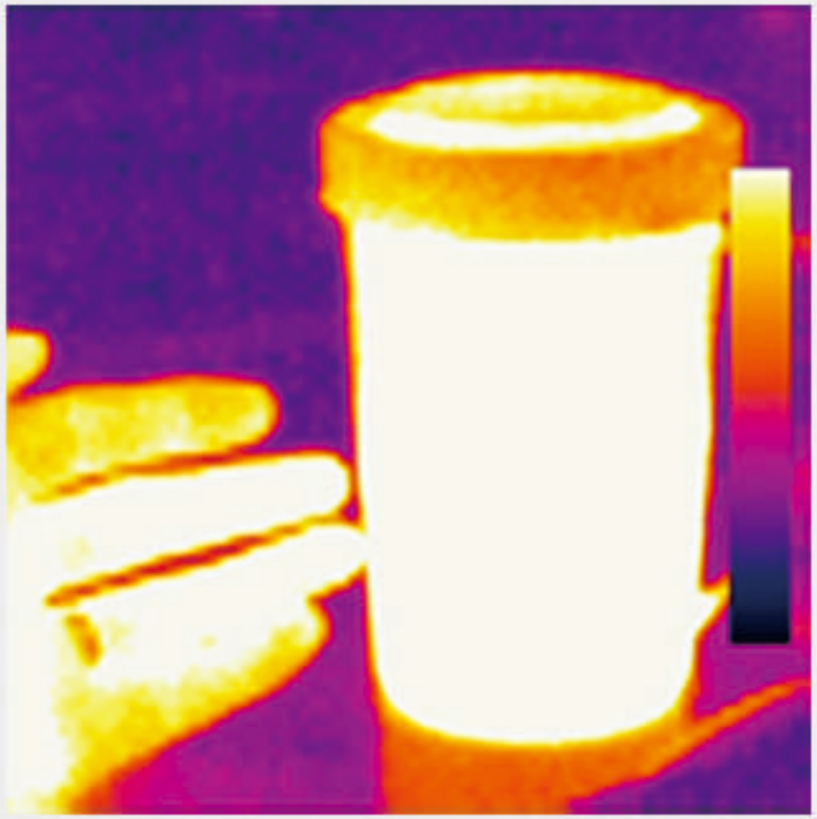
Strong interval locking

(Easy to detect abnormal temperature in the detection area)

During infrared measurement, you can lock the high and low temperature zones as required, and the camera will automatically shield the temperature outside the zone (below this zone is not displayed, and above this zone is displayed as a white dot)



Zone unlock mode



Interval Lock Mode

Free and powerful professional analysis software

Read and analyze infrared images, greatly improving the efficiency
of on-site image analysis after temperature measurement


1
CEM
Thermal Imager
2
3
4
5
6
7
8
9
10
11

Thermal imaging technical parameter	DT-9897Y
Thermal sensitivity / NETD	<0.05℃ @ + 30℃ (+ 86℉) / 50mK
Resolution	Uncooled Focal Plane Detector (UFPA) 384x288
	Focal length: 22mm
	Field of view: 25x19 °
	Aperture: F1.0
	IFOV: 1.13mrad
Infrared lens	Material: germanium
Visible light lens resolution	5 million
Image frame rate	50Hz
Digital zoom	32x electronic zoom
Display	3.5 " 640x480 HD color TFT capacitive touch screen
Image display mode	Infrared image, visible light image, picture-in-picture fusion function (Fusion of visible and infrared images)
Color palette	Iron red, rainbow, off-white, white gray, blue-red, hot and cold, Feather red, tan, custom
Image adjustment	Manual / auto / histogram
Test area	1 meter distance: 46cmx35cm Distance of 2 meters: 92cmx70cm 3 meters distance: 230cmx160cm
Temperature measurement accuracy	± 0.5 ℃
Screening temperature range	32 ℃ ~ 42 ℃

General parameters	
Emissivity / point analysis	0.01 to 1.0 adjustable / 3 movable points
Line analysis / area analysis	2 (horizontal and vertical lines) / 3 movable frames (maximum, minimum, average)
Full field high temperature tracking	Red cross mark
High temperature alarm value can be set	Default 37.3
High temperature alarm tone / color alarm	Yes
Isothermal analysis	Detection of high, low and temperature ranges
Measurement correction	Emissivity, ambient temperature, reflected temperature, distance, relative humidity, Temperature compensation
Laser / Illumination / Laser ranging	Lights less than class 2 / white LED / 30m
Set command	Unit, language, date, time, information
Language selection	English, Chinese, French, German, Spanish
SD card / external display	None / HDMI HD output
Video / Photo / Visible Light Camera	Yes / 5MP
USB interface	USB-mini, which transfers data between the device and the computer, which can be Remotely controlled and monitored in real time
Wi-Fi function	Remote transfer of data and pictures to mobile phone via Wi-Fi
Battery	Rechargeable lithium battery, four hours of use
Output voltage / charging method	DC 9V to 12V / direct charging (power adapter)
Power management	Auto power off and sleep mode (user selectable)