DT-9897Y

Introduction overview The Thermal Imager is handheld imaging camera used for predictive maintenance, equipment troubleshooting, and verification. Focus the len 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.

Features

3.5 in. LCD display , 640x480 pixels, Touch screen

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

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

High temperature automatic alarm prompt

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

Use imported sensors to quickly capture instantaneous scene temperature

Non-contact temperature measurement

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

Specifications

Imaging and optical data

Field of view (FOV) / Minimum focus distance	41.5° x 31.1° / 0.5m
Spatial resolution (IFOV)	1.89mrad
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Image frequency	50Hz
Focus mode	Manual
Zoom	1–32× continuous, digital zoom
Focal length	9mm
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8–14 μm
IR resolution	384x288 pixels

Image presentation

Display	3.5 in. LCD, 640x480 pixels, Touch screen
Image modes	IR image、Visual image、Picture in picture、Auto fusion、Laser distance meter with fusion.
Color palettes	IRON、Rainbow、Grey、Grey Inverted、Brown、Blue-red、hot-cold、Feather、Above alarm、Below alarm、Zone alarm、vision zone.

Measurement

Object temperature range	Screenning mode:32℃to42℃(–89.6°F to +107.6°F) ﹣20°C to +150°C (–4°F to +302°F) 0°C to +650°C (+32°F to +1202°F)
Accuracy	Screening mode:±0.5℃ (±0.9°F)in 32℃to42℃ ±2°C (±3.6°F) or ±2% of reading(Environment temperature 10℃-35℃，object temperature > 0℃.)
Laser distance meter	0.05 to30m（0.15ft to 98ft)
Measuring accuracy	Typically ±5mm

Measurement analysis

Face tracking	Intelligent face tracking,detect 10 faces at the same time.
Hot spot track	Hot spot track in face area
Warning and capture	High temperature alarm and auto capture
Spot	Center Spot、Three manual spots
Automatic hot /cold detection	Auto hot or cold markers
Line	Two lines analyse
Area	Three areas analyse
Measurement corrections	Emissivity, Reflected temperature,ambient temperature,atmospheric humidity,infrared compensation,distance compensation.

Storage of videos

Storage media	8Gbytes Micro SD card and 3.4GB internal EMMC

Video storage format	Standard MPEG-4 encode, 640x480@30fps, on memory card > 60 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

Laser	< class2
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 59°

Data communication interfaces

Interfaces	USB-mini, HDMI
USB	Data transform between camera and PC Live video between camera and PC
Video out	HDMI
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 to +50°C (5°F to +122°F)
Storage temperature range	﹣40°C to +70°C (–40°F to +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