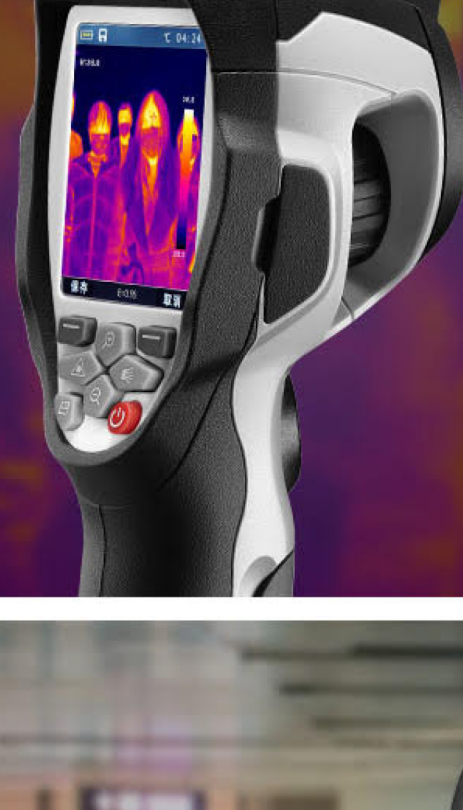# Thermal Imager Datasheet

Rapid Screening Thermal Imager for Surface Temperature

20mS fast thermal imaging temperature measurement

Quick large-scale screening temperature measurement

Non-contact testing makes quarantine personnel safer

Based on the detection principle of infrared thermal imaging, quarantine personnel can be physically separated from the quarantine object, which can improve the detection efficiency and protect the safety of quarantine personnel.

External large display terminal, more efficient on-site monitoring

- 2.8 " HD screen
- 80x80 resolution
- 5 megapixel visible
- 50Hz high frame rate
- 32x continuous digital zoom
- 5 megapixel visible light fusion
- Smaller spatial resolution IFOV
- Patented AUF thermal imaging camera

OTG line transmits data to mobile phone
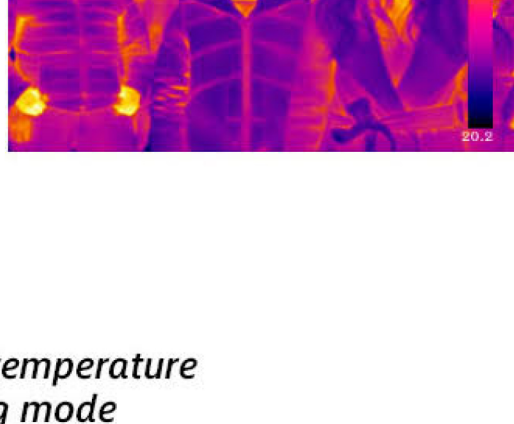## Free and powerful analysis software

High temperature color alarm

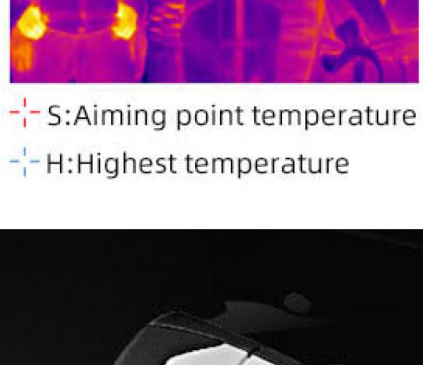High and low temperature warning function, you can set the temperature to issue a warning

High temperature color alarm
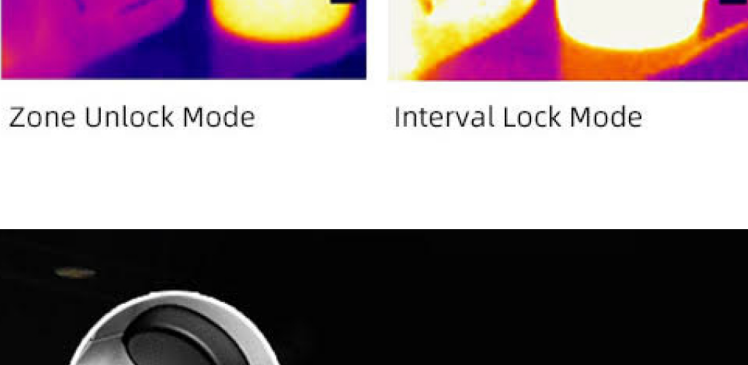
High and low temperature automatic tracking

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

Surface temperature screening mode

When measuring in infrared, you can lock the high and low temperature according to your needs. DT-980Y will automatically shield the temperature outside this area.
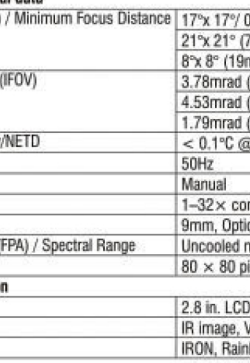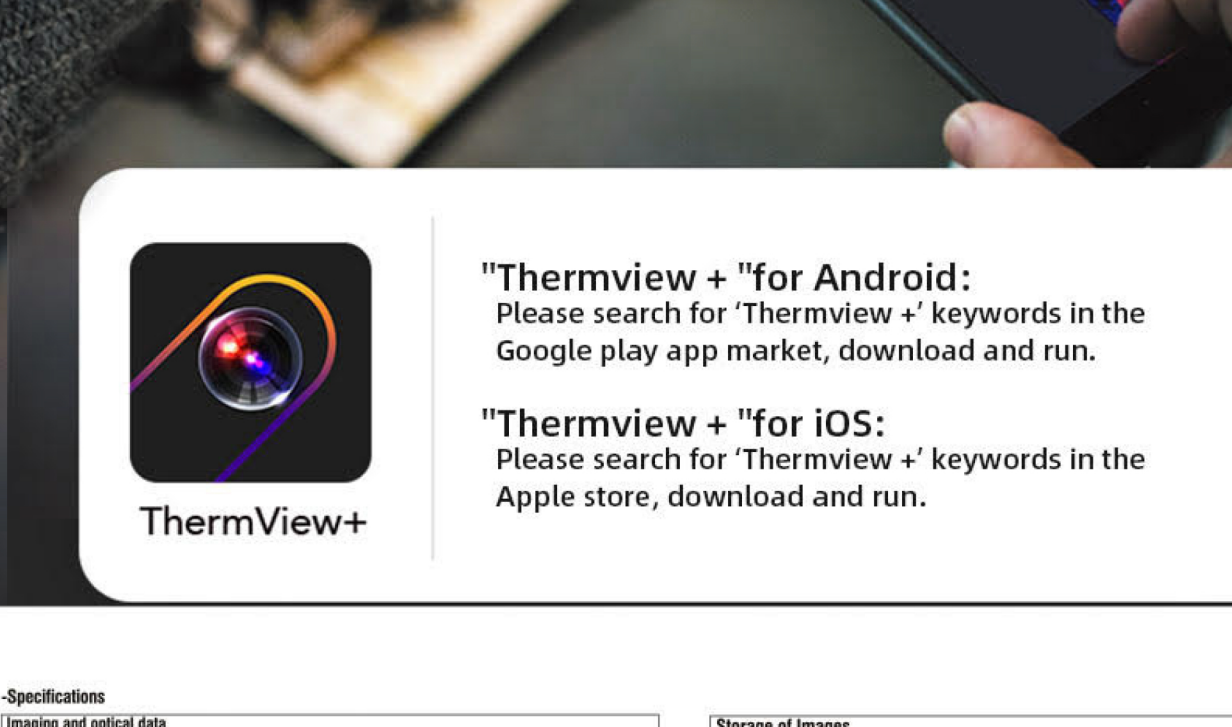
- S:Aiming point temperature
- H:Highest temperature

Zone Unlock Mode   Interval Lock Mode

- Function button
- Laser pointer
- Camera
- LED lights
- Infrared lens

ThermView+

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

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

Specifications

Imaging and optical data		Storage of images	
Field of View (FOV) / Minimum Focus Distance	37°x 27° 0.1m (4mm) General 37°x 27° (7.5mm) Wide angle type	Image Storage Format	Standard JPEG, including measurement data, on memory card
	9°x 7° (19mm) Long focal length type	Infrared / Visual	≥ 4000 pictures
Spatial Resolution (IFOV)	1.36mrad (4mm) General 1.36mrad (7.5mm) Wide angle type	Image Storage Mode	IR/visual images, simultaneous storage of IR and visual images
	1.76mrad (19mm) Long focal length type	Set up	
Thermal Sensitivity/NETD	≤ 0.1°C @ 30°C (80PY) / 336 mK	Label	≥ 2 label
Image Frequency	50 Hz	Set up Commands	Local adaptation of units, language, date and time formats, information of camera
Focus	Automatic/Manual	Languages	Multilingual
Focal Length	4mm, Optional 7.5mm/19mm	Digital Camera	
Focal Plane Array (FPA) / Spectral Range	Uncooled microbolometer / 8–14 µm	Built-in Digital Camera	5 Megapixels
IR Resolution	80 x 80 pixels	Field of Digital Lens View	FOV 54°
Image presentation		Data Communication Interfaces	
Image Display	2.8 in. LCD, 240 × 320 pixels	Interface	USB mini, audio, HDMI
Image Modes	IR image, Visual Image, Image Fusion	USB	Data transition between camera and PC
Color Palettes	WGN, Rainbow, Grey, Grey Inverted		USB 2.0, real-time stream of infrared video image
Measurement		Video Out	HDMI
Object Temperature Range	−20°C to 150°C (0°C to 350°C)	Power system	
	0°C to 350°C (121°F to 662°F)	Battery Type	Li-ion battery, 4 hours operating time
Accuracy	±2°C (±3.6°F) or ±2% of reading environment temperature (23°C ±5°C (73°F ±9°F), object temperature > 0°C (32°F))	Input Voltage	DC 5V
Measurement Analysis		Charging System	In camera (AC adapter)
Aiming Spot	Auto hot / cold tracking	Automatic shutdown	Automatic shutdown
Emissivity Correction	Variable from 0.01 to 1.0	Environmental Characteristics	
Measurement Correction	Automatic or Manual	Operating Temperature Range	−15°C to +50°C (5°F to +122°F)
Range of Video		Storage Temperature Range	−40°C to +70°C (−40°F to +158°F)
Storage Video	Mjbdeo Micro SD card	Humidity (Operating and Storage)	10%–95%
Video Storage Format	Standard MPEG-4 memory card 128min@30fps, on memory card	Drop Test	2m
Video Storage Mode		Bump	25g (IEC 68-2-29)
	≥ 60 minute	Vibration	2g (IEC 68-2-6)
	Visual image, storage simultaneous storage of IR and visual images	Shell Protection	Ip54 (IEC60529)
		Physical Data	
		Lens/Weight (with Battery)	< 650g
		Camera Size (L × W × H)	224x77x96