



DT-9873B

DT-9873B Professional Thermal Imager

The Thermal Imager is a handheld imaging camera used for predictive maintenance, equipment troubleshooting, and verification. 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.

In addition to the features mentioned above, the Thermal Imager provides video recording with audio and playback.

SPECIFICATIONS

Imaging And Optical Data	
Field of view (FOV) / Minimum focus distance	29.8° x 22.6° / 0.2m
Spatial resolution (IFOV)	3.33mrad
Thermal sensitivity/NETD	< 0.08°C @ +30°C (+86°F) / 80 mK
Image frequency	50Hz
Focus mode	Manual
Focal length	7.5mm
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8-14 μ m
IR resolution	160 x 120 pixels
Image Presentation	
Display	Capacitive Touch screen, 3.5 in. LCD, 320 x 240 pixels
Image modes	IR image only
Color palettes	IRON, Rainbow, Grey, GreyInverted, Sepia, Blue_Red, Hot Cold, Humidity
Measurement	
Object temperature range	-20°C to +150°C (-4°F to + 302°F) 0°C to + 400°C (+32°F to + 752°F)
Accuracy	$\pm 2^\circ\text{C}$ ($\pm 3.6^\circ\text{F}$) or $\pm 2\%$ of reading
Measurement Analysis	
Spot	Center Spot
Automatic hot/cold detection	Auto hot or cold markers
Isotherm	Detect high/low temperature/interval
Emissivity correction	Variable from 0.01 to 1.0
Measurement corrections	Emissivity, ambient temperature, distance, relative humidity, offset temperature
Storage Of Videos	
Storage media	4Gbytes Micro SD card
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes
Video storage mode	IR images with audio
Storage Of Images	
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures
Image storage mode	IR images with annotation (audio or text)
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	640 x 480 pixels
Built-in digital lens data	FOV 62.3°
Data Communication Interfaces	
Interfaces	USB-mini, audio, composite video, Micro SD slot
USB	Data transform between camera and PC
Video out	Composite (PAL and NTSC)
Power System	
Battery	Lithium polymer battery, 4.5 hours operating time
Input voltage	DC 9V to 12V
Charging system	In camera (AC adapter)
Power management	Automatic shutdown and sleep mode
Environmental Data	
Operating temperature range	-20°C to +50°C (-4°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	10%-90%
Encapsulation	IP65
Drop test	2m
Bump	25g (IEC60068-2-29)
Vibration	2g (IEC60068-2-6)
Physical Data	
Camera weight, incl. battery	920g
Camera size (L x W x H)	243 x 103 x 160

INCLUDED ACCESSORIES:

- Lens : Field of view=29.8° x 22.6°, f=7.5mm
- Lens Cover
- Lithium Polymer Battery : 7.4V, 2600mAH
- Adaptor : Input AC Volts : 100V ~ 240V, 50/60Hz, MAX 0.8A
Output DC Volts : 12V, 3000mA
- Charger
- Micro SD : 4 Gbyte
- USB Cable
- RCA Cable
- Earphone
- User Manual
- PC Software
- Installation CD
- Gift box & Carrying Case

