



## DT-9875 Thermal Imager

DT-9875 Thermal Imager is designed to make your work easier, more productive and effective. 160 x120 resolution at 50 Hz for real-time capture; a big, bright touch screen with toolbar helps you to fine-tune and analyze images quickly. Temperature range from -20°C to 400°C (-4°F to 752°F), 20X continuous zoom, picture-in-picture, voice comment recording and text annotation on images. Hot/Cold spot marker automatically finds the hottest and coldest spots. It includes memory card, lithium polymer battery & power supply, and USB cable.

### FEATURES

#### High Resolution IR Images:

19,200 pixels (160x120) Infrared Resolution

#### Visible Light Digital Camera:

640x480 Resolution with flash provides sharp images regardless of lighting conditions.

#### LED Flashlight:

Allows the visual camera and fusion to be used in poorly lit environments

#### Wide Temperature Range :

Form -20°C to +400°C targeting electrical and industrial applications

#### Thumbnail View :

Easy to view and analyze images quickly

#### The Image Rotation :

The ability to automatically rotate the active image

#### Audio recorded with the video image:

A speaker to listen to audio recorded with the video image

#### Capacitive Touch Screen :

More easy, productive and effective to operate it

#### Lithium Polymer Rechargeable Battery :

Lasts > 4hrs continuous use; replaceable

#### Copy to USB :

Easy uploads images from Camera to USB memory card

#### Area (Min / Max) Mode :

Shows the Minimum or the Maximum Temperature reading in the selected area

## APPLICATIONS

Plant/General Maintenance • HVAC/R • Transportation / Automotive • Cooling and Reheating • Serving Areas • Food Service Equipment • Cold Storage

## SPECIFICATIONS

Imaging And Optical Data	
<b>Field of View (FOV) Minimum focus Distance</b>	33° x 24° / 0.3m
<b>Spatial Resolution (IFOV)</b>	3.33mrad
<b>Thermal Sensitivity / NETD</b>	<0.08°C @ + 30°C (+86°F) /80mk
<b>Image Frequency</b>	50Hz
<b>Focus mode</b>	Manual
<b>Zoom</b>	1-20x Continuous, Digital Zoom
<b>Rotate</b>	0°-360°, Continuous increased by 1°
<b>Focal Length</b>	7.5mm
<b>IR Resolution</b>	160 x 120 pixel
Focal Plane Array (FPA)   Spectral Range Uncooled Microbolometer / 8-14µm	
Image Presentation	
<b>Display</b>	Capacitive Touch screen, 3.5 in. LCD, 320 x 240 pixels
<b>Image modes</b>	IR image visual image, picture in picture Image Fusion
<b>Picture in Picture</b>	IR Area on Visual Image or Visual Image Area on IR
<b>Color Palettes</b>	GRAY / GRAYINV / IRON / IRONINV / RAINBOW / FEATHER
Measurement	
<b>Object Temperature Range</b>	Low Range -20°C to + 150°C (-4°F to + 302°F) High Range 0°C to + 400°C (+32°F to + 752°F)
<b>Accuracy</b>	±2°C (±3.6°F) or ±2% of Reading
Measurement Analysis	
<b>Spot</b>	3
<b>Line</b>	2 lines (Horizontal and Vertical)
<b>Area</b>	3 Boxes with max. / min. / Average
<b>Automatic Hot / Cold Detection</b>	Auto Hot or Cold Markers
<b>Isotherm</b>	Detect High / Low Temperature / Interval
<b>Emissivity Correction</b>	Variable from 0.01 to 1.0
<b>Measurement corrections</b>	Emissivity, Ambient Temperature, Distance, Relative Humidity, Offset Temperature
Storage Of Videos	
<b>Storage Media</b>	4 Gbytes Micro SD Card
<b>Video Storage format</b>	Standard MPEG-4, 640x480@30fps, on Memory Card > 60 Minutes
<b>Video Storage Mode</b>	IR / Visual Images; Simultaneous Storage of IR and Visual Images
Storage Of Images	
<b>Image Storage Format</b>	Standard JPEG, Including Measurement Data, on Memory Card > 1000 Pictures
<b>Image Storage Mode</b>	IR / Visual Images; Simultaneous Storage of IR and Visual Images
Set-Up	
<b>Laser</b>	< class2
<b>Set-up Commands</b>	Local Adaptation of Units, Language, Date and Time Formats, Information of Camera
<b>Languages</b>	Multinational

## SPECIFICATIONS

Digital Camera	
<b>Built-in Digital Camera</b>	640 x 480 pixels
<b>Built-in Digital Lance Data</b>	FOV62.3°
Data Communication Interfaces	
<b>Interfaces</b>	USB-mini, audio, Composite Video, Micro SD Slot
<b>USB</b>	Data Transform Between Camera and PC
<b>Video Out</b>	Composite (PAL and NTSC)
Power System	
<b>Battery</b>	Lithium Polymer Battery, 4.5 Hours Operating Time
<b>Input Voltage</b>	DC 9V to 12V
<b>Charging System</b>	In Camera (AC Adapter)
<b>Power Management</b>	Automatic Shutdown and Sleep Mode (user selectable)
Environmental Data	
<b>Operating Temperature Range</b>	-20°C to + 50°C (-4°F to + 122°F)
<b>Storage Temperature Tange</b>	-40°C to + 70°C (-40°F to + 158°F)
<b>Relative Humidity (operating and storage)</b>	10% ~ 90%
<b>Encapsulation</b>	IP65
<b>Drop test</b>	2m
<b>Bump</b>	25g (IEC60068-2-29)
<b>Vibration</b>	2g (IEC60068-2-6)
Physical Data	
<b>Camera Weight, incl. Battery</b>	920g
<b>Camera Size (L x W x H)</b>	243 x 103 x 160

## INCLUDED ACCESSORIES:

Hard Transport Case, 7.5mm Lens, Sun Visor, Tripod Base, AC Charger / Power Supply, Earphone, Battery, Camera Leans Cap, Software CD-ROM, Handstrap, Micro SD Card, USB Cable & RCA Cable, Gift Box.

**Optinal Accessories :** 33mm Lens / 22mm Lens 11mm Lens

