



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

SPECIFICATIONS

Digital Camera	
Built-in Digital Camera	640 x 480 pixels
Built-in Digital Lance Data	FOV62.3°
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 (user selectable)
Environmental Data	
Operating Temperature Range	-20°C to + 50°C (-4°F to + 122°F)
Storage Temperature Tange	-40°C to + 70°C (-40°F to + 158°F)
Relative 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:

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

