



DT-9897H

High Performance Thermal Imager

DT-9897 is High Performance Thermal Imager with high resolution 384x288, help you to find the potential problems with innovation features and functionality, you can perform infrared inspections faster and more efficiently and thoroughly document problem areas for additional information.



KEY FEATURES

384x288 High Performance & high resolution Thermal Imager with TFT color LCD display

Professional IR-optical focus system ensures that images are in good focus for optimum image clarity and scanning convenience

Thermview analysis system—quickly identify and keep track of inspection locations by adding digital images of important information and surrounding areas

Finds problems faster and easier by accurately identifying potential issues by combining digital and IR images

Picture in Picture function Displays Thermal Image super-imposed over a digital image

LED Flashlight allows the visual camera and fusion to be used in poorly lit environments

Wide Temperature Range from -20 to $\pm 1200^{\circ}$ C targeting electrical and industrial applications $\pm 2\%$ Accuracy for reliable temperature measurement

The image rotation facility allows to automatically rotate the active image

Audio and Text annotation

Capacitive touch screen is easier, productive and efficient to operate it

Lithium polymer Rechargeable Battery lasts > 4hrs continuous use; and is replaceable

An easy-to-access thumbnail image gallery helps you to quickly review and find your thermal images $\,$

Area (Min/Max) mode shows the Minimum or the Maximum Temperature reading in the selected area

A conveniently located button activates the laser pointer that will help you associate the hot or cold spot in the thermal image with the real physical target in the field

In order to adapt the device to every situation both wide angle and tele-lenses are available Equipped with HDMI, USB, SD card and WiFi output.

With WiFi data transfer of liver videos

With laser range finding up to 30m

SPECIFICATIONS

Resolution 344 x 288 pixels, Focal Plane Array (FPA), Uncooled Microbalomenter Field of View (FOV) 24.6° x 18.6° Minimum focus Distance 0.3m (0.99ft.) Spatial Resolution (IFOV) 1.15mRad Thermal Sensitivity / NETD < 0.04°C (@ +30°C (+86°F) / 40 mK Image Frequency 50Hz Focus mode Manual Zoom 1-20x Continuous, Digital Zoom Rotate 0°-360°, Continuous, Charge by 1° Spectral Range 7.5µm - 14µm Image Presentation Display 3.5° TFF, Capacitive Touch Screen Image modes IR Image, Visual Image, Picture in Picture Picture in Picture IR Area on Visual Image Picture in Picture Picture in Picture IR Area on Visual Image Area on IR Color Palettes GRAY/ GRAY/RON / FRAINBOW / FEATHER Measurement Object Temperature Range High Range 0 to 1200°C (+4°F to +302°F) High Range 0 to 1200°C (+32°F to +2192°F) Accuracy +2°C (+3.6°F) or +2% of Reading Measurement Analysis Spotmeter 3 Emissivity Adjustable 0.01 - 1.0 Adjustable Emissivity Table Emissivity Area Automatic Hot / Cold Detection Auto Hot or Cold Spotmeter Markers Isotherm Detect High / Low Temperature / Internal Difference Temperature Detect High / Low Temperature / Internal Difference Temperature Emissivity, Ambient Temperature, Distance, Relative Humidity, Offset Temperature Emissivity, Ambient Temperature, Distance, Relative Humidity, Offset Temperature Set-up Commands Local Adaptation of Units, Language, Date and Time Formats, Information of Camera Languages English, Chinese, French, German, Spanish Storage Of Videos Internal Memory of upto 1000+ Images, Extendeble Memory using SD card upto 16GB Video Storage Format Standard MPEG-4, 640x480@30fps, on Internal or Memory Card > 60 Minutes Video Storage Format Standard MPEG-4, 640x480@30fps, on Internal or Memory Card >	Imaging And Optical Data	
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Spatial Resolution (IFOV) 1.15mRad (IFOV)	Field of View (FOV)	24.6° x 18.6°
Thermal Sensitivity / NETD	Minimum focus Distance	0.3m (0.99ft.)
Timage Frequency SoHz	Spatial Resolution	(IFOV) 1.15mRad
Focus mode Manual	Thermal Sensitivity / NETD	< 0.04°C @ +30°C (+86°F) / 40 mK
Topic Topi	Image Frequency	50Hz
Rotate 0°- 360°, Continuous Change by 1° Spectral Range 7.5µm - 14µm Display 3.5° TFT, Capacitive Touch Screen Image modes IR Image, Visual Image, Picture in Picture Picture in Picture IR Area on Visual Image or Visual Image Area on IR Color Palettes GRAY/ GRAYIRON / RAINBOW / FEATHER Measurement Object Temperature Range Low Range -20°C to + 150°C (-4°F to + 302°F) High Range 0 to 1200°C (+32°F to + 2192°F) Accuracy ±2°C (±3.6°F) or ±2% of Reading Measurement Analysis Spotmeter 3 Emissivity Adjustable 0.01 – 1.0 Adjustable Emissivity Table Emissivity Table of Predefined Materials Line 2 lines (Horizontal and Vertical) Area 3 Boxes with max. / min. / Average Automatic Hot / Cold Detection Auto Hot or Cold Spotmeter Markers Isotherm Detect High / Low Temperature / Interval Difference Temperature Delta Temperature Between Measurement Pointer and Reference Pointer Measurement corrections Emissivity, Ambient Temperature, Distance, Relative Humidity, Offset Temperature Set-Up Laser / Food light < class 2 / white LED Floodlight Set-up Commands Local Adaptation of Units, Language, Date and Time Formats, Information of Camera Languages English, Chinese, French, German, Spanish Video Storage Media Internal Memory of upto 1000+ images, Extendable Memory using SD card upto 16GB Video Storage format Standard MPEG-4, 640x480@30fps, on Internal or Memory Card > 60 Minutes Video Storage of Images	Focus mode	Manual
Image Presentation Display 3.5" TFT, Capacitive Touch Screen Image Presentation Image modes IR Image, Visual Image, Visual Image, Picture in Picture IR Area on Visual Image, Visual Image Area on IR Color Palettes GRAYY GRAYIRON / RAINBOW / FEATHER GRAYY GRAYIRON / RAINBOW / FEATHER GRAYY GRAYIRON / RAINBOW / FEATHER Low Range -20°C to + 150°C (-4°F to + 302°F) High Range 0 to 1200°C (+32°F to +2192°F) High Range 0 to 120°C (+32°F to +2192°F) High Range 0 to 120°C (+32°F to +2192°F) High Range 0 to 120°C (+32°F to	Zoom	1-20x Continuous, Digital Zoom
Image Presentation	Rotate	0°- 360°, Continuous Change by 1°
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Picture in Picture IR Area on Visual Image or Visual Image Area on IR Color Palettes GRAY/ GRAYIRON / RAINBOW / FEATHER Measurement Object Temperature Range Low Range -20°C to + 150°C (-4°F to + 302°F) High Range 0 to 1200°C (+32°F to +2192°F) Accuracy ±2°C (±3.6°F) or ±2% of Reading Measurement Analysis Spotmeter 3 Emissivity Adjustable Emissivity Table Emissivity Table of Predefined Materials Line 2 lines (Horizontal and Vertical) Area 3 soxes with max. / min. / Average Automatic Hot / Cold Detection Botherm Detect High / Low Temperature Interval Difference Temperature Delta Temperature Between Measurement Pointer and Reference Pointer Measurement corrections Emissivity, Ambient Temperature, Distance, Relative Humidity, Offset Temperature Set-Up Laser / Food light < class 2 / white LED Floodlight Set-Up Commands Local Adaptation of Units, Language, Date and Time Formats, Information of Camera Languages English, Chinese, French, German, Spanish Storage Of Videos Storage Media Video Storage format Video Storage Mode IR / Visual Images; Simultaneous Storage of IR and Visual Images Storage Of Images	Display	3.5" TFT, Capacitive Touch Screen
Color Palettes Measurement Object Temperature Range Low Range -20°C to + 150°C (-4°F to + 302°F) High Range 0 to 1200°C (+32°F to +2192°F) Accuracy ±2°C (±3.6°F) or ±2% of Reading Measurement Analysis Spotmeter Emissivity Adjustable Emissivity Table Emissivity Table Line 2 lines (Horizontal and Vertical) Area 3 Boxes with max. / min. / Average Automatic Hot / Cold Detection Isotherm Detect High / Low Temperature / Interval Difference Temperature Deta Temperature Between Measurement Pointer and Reference Pointer Measurement corrections Emissivity, Ambient Temperature, Distance, Relative Humidity, Offset Temperature Set-Up Laser / Food light < class 2 / white LED Floodlight Set-up Commands Local Adaptation of Units, Language, Date and Time Formats, Information of Camera Languages English, Chinese, French, German, Spanish Storage Of Videos Storage Media Video Storage format Video Storage Mode IR / Visual Images; Simultaneous Storage of IR and Visual Images Storage Of Images	Image modes	IR Image, Visual Image, Picture in Picture
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Spotmeter 3		±2°C (±3.6°F) or ±2% of Reading
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Storage Of Images	Video Storage format	·
	Video Storage Mode	IR / Visual Images; Simultaneous Storage of IR and Visual Images
Image Storage Format Standard IPEG Including Measurement Data on Internal or Memory Card > 1000 Pictures	Storage Of Images	
Standard 7 20, medianing frieddirent Data, on memory edid > 1000 Fictores	Image Storage Format	Standard JPEG, Including Measurement Data, on Internal or Memory Card > 1000 Pictures
Image Storage Mode IR / Visual Images; Simultaneous Storage of IR and Visual Images	Image Storage Mode	IR / Visual Images; Simultaneous Storage of IR and Visual Images

SPECIFICATIONS

Annotations	
Text Annotations	User defined text annotations with each image using onscreen keyboard
Voice Annotations	Users can record upto 60 seconds of voice tag along with each image
Digital Camera	
Built in Visible Light Camera	5MP
Data Communication Interfaces	
Data Interfaces	USB-mini, data transform between camera and PC, WiFi
Video Out	Composite (PAL and NTSC)
Power System	
Battery	Lithium polymer battery, 4 hours operating time
Input Voltage	AC Volts 100V~240V 50/60Hz Max 0.9A, 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)	0% to 90% non condensing
Encapsulation	IP65
Drop test	2m
Bump	25g (IEC60068-2-29)
Vibration	2g (IEC60068-2-6)
Size (H x W x D)	268mmx100mmx125mm
Weight	820g

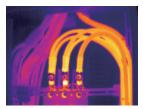
APPLICATIONS

Cold Storage

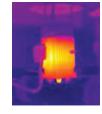
HVAC/R Transportation / Automotive Cooling and Reheating Serving Areas Food Service Equipment

INCLUDED ACCESSORIES:

Hard Transport Case, Lens, AC Charger / Power Supply, Battery, Camera Leans Cap, Software CD-ROM, Micro SD Card, USB Cable & Video Cable, Gift Box.













AAYUSH ELECTRICALS & INSTRUMENTATION ISO 9001-2015 CERTIFIED COMPANY

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