CE
EMC
EN: 61326-1
EN: 61010-1

Model: 9885

The Thermal Imager is designed for Non-contact detection and calculation of apparent surface temperature, and the thermal image creation is based on the temperature variation. Imager Thermometers provide fast and accurate readings for most surface temperature measurements with TFT color LCD display & Imager Video format. Built for tough work environments, these high-performance, fully radiometric imagers are ideal for troubleshooting electrical systems, electro-mechanical equipment, process equipment, HVAC/R equipment and others.

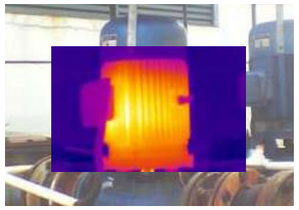
Key features

- 384x288 High Performance & high resolution Thermal Imager with TFT color LCD display (9885/9887)
- 160x120 High Performance Thermal Imager with high resolution TFT color LCD display (9873 Series)
- Professional IR-optical focus system ensures that images are in good focus for optimum image clarity and scanning convenience.
- Capture additional measurements fast and conveniently with wireless modules (9887 only)
- Meterbox analysis system—quickly identify and keep track of inspection locations by adding digital images of important information and surrounding areas
- Find problems faster and easier with accurately identify 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 +400°C targeting electrical and industrial applications
- ±2% Accuracy for reliable temperature measurement
- The image rotation has the ability to automatically rotate the active image
- Audio recorded with the video image acts a speaker to listen to audio recorded with the video image
- Capacitive touch screen is easier, productive and effective to operate it
- Lithium polymer Rechargable Battery lasts >4hrs continuous use; replaceable
- An easy-to-access thumbnail image gallery helps you to quickly review and find your thermal images.
- Area (Min/Max) mode shows the Minumum 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 standard video, USB outputs as well as a removable SD card.
- The IR video can be streamed to a PC via USB or wifi (DT-9887 only).

Wi-Fi Connectivity/ Bluetooth Communication

Model: 9887

Full Infrared



Picture-in-Picture

Color Alarm

Full visible light

11mm Lens RL-11

38mm Lens RL-38

22mm Lens RL-22

Size(HxWxD): 243mm x 103mm x 160mm **Weight:** 920g
Accessories: Hard transport case, 22mm lens, Sun Visor, Tripod base, AC charger/Power supply, Battery, Camera lens cap, software CD-ROM, Handstrap, micro SD card, USB cable & RCA cable, Gift box.

DT-9871/9873/9873B/9875/9877/9885/9887
High Performance Thermal Imagers
CEM

Specifications		9871	9873B	9873	9875	9877	9885	9887
Imaging and optical data								
IR resolution	160x120pixels, focal plane array (FPA), uncooled microbolometer	80x80	*	*	*	*	384x288	
Field of View (FOV)	29.8° × 22.6°	17°x17°	*	*	*	*	24.6°x 18.6°	
Minimum focus distance	0.2m (0.66ft.)	0.3m (0.99ft.)	*	*	*	*	*	*
Spatial resolution	(IFOV) 3.33 mrad	3.78mrad	*	*	*	*	2.28 mrad	
Thermal sensitivity/NETD	< 0.08°C @ +30°C (+86°F) / 80 mK	< 0.1°C	*	*	*	*	*	*
Image frequency	50Hz	*	*	*	*	*	*	*
Focus	Manual	*	*	*	*	*	*	*
Zoom	1-20x continuous, digital zoom	*	*	*	*	*	32x	32x
Rotate	0-360°, continuous change by 1°	*	*	*	*	*	*	*
Image presentation								
Display	3.5" TFT , capacitive touch screen	*	*	*	*	*	*	*
Image modes	IR image, visual image, picture in picture	IR image only		*	*	*	*	*
Picture in Picture	IR area on visual image or visual image area on IR	None		*	*	*	*	*
Color palettes	GRAY/GRAY IRON/IRON/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								
Spotmeter	3	*	*	*	*	*	*	*
Emissivity adjustable	0.01~1.0 Adjustable	*	*	*	*	*	*	*
Emissivity table	Emissivity table of predefined materials	*	*	*	*	*	*	*
Line	2 lines(horizontal and vertical)	None		*	*	*	*	*
Area	3 boxes with max. /min. /average	None		*	*	*	*	*
Automatic hot /cold detection	Auto hot or cold spotmeter marks	*	*	*	*	*	*	*
Isotherm	Detect high/low temperature/interval	None		*	*	*	*	*
Measurement corrections	Emissivity, ambient temperature, distance, relative humidity, offset temperature	*	*	*	*	*	*	*
Set-up								
Laser / floodlight	< class2 / white LED floodlight	None		*	*	*	*	*
Set-up commands	Local adaptation of units, language, date and time formats, information of camera	*	*	*	*	*	*	*
Language selection	English, Chinese, French, German, Spanish	*	*	*	*	*	*	*
Storage of videos/images								
Storage media	4Gbytes Micro SD card	*	*	*	*	*	*	*
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes	*	*	*	*	*	*	*
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures	*	*	*	*	*	*	*
Storage mode	IR/visual images; simultaneous storage of IR and visual images	IR image only		*	*	*	*	*
Digital camera								
Built-in visible light digital camera	640x480 Pixels	None		*	*	*	*	*
Data communication interfaces								
USB interfaces	USB-mini, data transform between camera and PC	*	*	*	*	*	*	*
	remote control, live video		None			*	*	*
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video		None			*	*	*
Video out	Composite(PAL and NTSC)	*	*	*	*	*	*	*
Power system								
Battery	Lithium polymer battery, 4 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								
Encapsulation	IP65	*	*	*	*	*	*	*
Drop test	2m	*	*	*	*	*	*	*