

NEW!



EZTherm 880

Infrared Camera for IR Inspections

See heat patterns quickly and easily.

The EZTherm 880 infrared camera is an innovative new imager/camera that lets you actually see heat...

The innovative EZTherm 880 infrared camera lets you identify potential problems before they cause costly failures. The camera finds important applications in electrical inspection, electro-mechanical equipment, roofing surveys, energy audits, moisture identification and mold remediation.

The EZTherm 880 allows you to see beyond the range of visible light and to capture images of object temperatures. Even though infrared (IR) energy is outside the visible range, the EZTherm detects IR radiation and enables you to see temperatures displayed in real-time images. The dramatic extra-large display of the EZTherm offers a picture window on a previously unseen world.

The image you hold in your hand provides valuable information about imminent damage and lets you plan repairs.

The EZTherm 880 includes the latest technological advances. The camera is able to detect minute temperature differences of 0.1°C enabling the identification of problems with enhanced precision. Thermal images are presented with vibrant colors both on the camera display as well as in reports, delivering images that satisfy even the most demanding user.

Interchangeable lenses, integrated digital camera, and motorized focusing are features unique to the EZTherm 880 in its class. An optional telephoto lens enables viewing objects at a distance with high magnification. An optional integrated digital camera and an image-in-image function links IR images to visible snapshots for fast, safe and easy documentation. A protective lens is available to protect the valuable optics from possible damage. With a 5-way joystick to navigate the dropdown menu selections, two user-defined function keys, and single-handed operation, using the 880 couldn't be easier.

Store the thermal images in user-defined folders in memory. Digital photos on some models provide clear identification of the measurement site. Download the thermal image and digital photo into report software. User-friendly format generates quick and easy professional client reports. The easy creation of file structures reduces the administrative effort for managing the images, measurement sites and paths.



EZTherm 880

Infrared Camera for IR Inspections

Specifications

Models Overview

EZTherm 880-1: The basic imager for fast and easy IR inspections.

- High-quality wide angle lens (32° x 24°) with F1 optics
- Detector 160 x 120
- NETD < 0.1°C
- Manual focus
- Minimum focus distance 4"

Data storage device SD, 1GB for approx. 800-1000 images

Includes:

- IR software with integrated report creation
- USB cable
- Li-Ion battery
- High-quality, rugged case

EZTherm 880-3: The professional thermal imager with visible light images and additional analysis functions.

Includes the EZTherm 880-1 imager features plus:

- Visible light camera
- Motorized focus
- Interchangeable lenses

EZTherm 880-4: The professional's thermal imager sufficiently versatile, to be used in the widest range of inspection applications.

Includes the EZTherm 880-3 imager features plus:

- 12° telephoto lens
- Sunshield
- Fast battery charger



Ordering Information

| Item | Part No. | Description |
|-----------------------------|----------|---|
| EZTherm 880-1 | 914890 | Basic infrared camera system |
| EZTherm 880-3 | 914891 | Expert infrared camera system |
| EZTherm 880-4 | 914892 | Professional's infrared camera system |
| Telephoto Lens | 914893 | High magnification (for 880-3 only) |
| Fast Battery Charger | 914896 | Charges up to 2 batteries |
| Li-Ion Rechargeable Battery | 914895 | Additional Lithium-ion battery to prolong operating time |
| Sunshield | 914897 | Special sunshield for the display of the EZTherm 880 when used in bright surroundings |
| Protective Lens | 914894 | Special protective germanium glass for optimum protection against dust and scratches |

SDT North America

1532 Ontario St
 Cobourg, ON K9A 4R5
 905-377-1313 - Telephone
 800-677-5325 - Toll Free
 www.sdtnorthamerica.com

| | EZTherm 880-1 | EZTherm 880-3 | EZTherm 880-4 |
|--|--|---|---------------|
| Infrared | | | |
| Field-of-View / Minimum Focus Distance | 32°x 24° / 0.1m (standard lens), 12°x 9° / 0.6m (telephoto lens) | | |
| Thermal Sensitivity (NETD) | <0.1°C at 30°C | | |
| Geometric Resolution | 3.5 mrad (standard lens), 1.3 mrad (telephoto lens) | | |
| Image Refresh Rate | 9Hz | | |
| Focus | Manual | Manual + motorized | |
| Detector Type | 160x120 pixel uncooled microbolometer FPA | | |
| Spectral Range | 8 to 14 µm | | |
| Visual | | | |
| Field-of-View / Minimum Focus Distance | | 33,2° x 25,2° / 0.4m | |
| Image Size | | 640x480 pixels | |
| Image Refresh Rate | | 8... 15 Hz | |
| Image Presentation | | | |
| Image Display | 3.5" LCD with 320x240 pixel | | |
| Display Options | IR image only | IR image only / visible image only / IR and visible image | |
| Video Output | USB 2.0 | | |
| Color Palettes | 8 options | | |
| Measurement | | | |
| Temperature Range | -20 to 100°C, 0 to +350°C (switchable) | | |
| Accuracy | ±2°C, ±2% | | |
| Minimum Diameter Measure Point | 3x3 pixels: standard 10mm at 1m (standard lens), standard 4mm at 1m (telephoto lens) | | |
| Switch On Time | 40 s | | |
| Measurement Functions | Standard measurement (1-point) | Standard measurement (1-point), 2-point measurement | |
| Reflected Temperature Compensation | Manual | | |
| Setting Emissivity | Nine materials programmable, of which one user-defined (0.01-1.0) | | |
| Image Storage | | | |
| File Format | .bmt; export possibility to .in, .bmp, .jpg, .csv | | |
| Data Storage Device | SD card | | |
| Store Capacity | 1 GB (approx. 800-1,000 images) | | |
| Optics | | | |
| Standard Lens (32°x 24°) | Yes | | |
| Telephoto Lens (12°x 9°) | Not available | Yes, optional | Standard |
| Power | | | |
| Battery Type | Fast charging Li-ion battery, changeable on site | | |
| Operating Time | approx. 5 hours at 20°C | | |
| Charging Options | In instrument / charger (optional) | | |
| Ac Operation | Yes | | |
| Ambient Conditions | | | |
| Operating Temperature Range | -15 to +40°C | | |
| Storage Temperature Range | -30 to +60°C | | |
| Air Humidity | 20% to 80% non-condensing | | |
| Protection Class of Housing | IP54 | | |
| Physical Characteristics | | | |
| Weight | 900 g | | |
| Dimensions | 152 x 106 x 262 mm | | |
| Tripod Mounting | Yes | | |
| Housing | ABS, diecast zinc | | |
| Software | | | |
| System Requirements | Windows XP (Service Pack 2), Windows Vista, interface USB 2.0 | | |

Predictive Maintenance Solutions

- Infrared Thermography
- Ultrasonic Testing
- Implementation and Certification Training
- On-site Support