

Specifications

Imaging and Optical Data

IR Resolution	80 x 80 pixels
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8-14 μm
Focal Length	9mm
Field of View (FOV)	17 x 17°
Minimum focus distance	0.5m
Spatial resolution	3.78mrad
Thermal sensitivity / NETD	<0.1°C / 100mK
Image frequency	50Hz
Focus	Manual
Zoom	1 - 32x continuous digital zoom

Imaging Presentation

Image Modes	IR image, visual image, picture in picture
Picture in Picture	IR area or visual image
Colour Palettes	IRON / Rainbow / Grey / Grey Inverted

Measurement

Object Temperature Range	-20°C to +350°C (-4°F to +662°F)
Accuracy	$\pm 2^\circ\text{C}$ ($\pm 3.6^\circ\text{F}$) or $\pm 2\%$ of reading

Measurement Analysis

Spotmeter	Center spot, auto hot or cold markers
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Set-up

Laser	<class2
Language Selection	English, Chinese, French, German, Spanish

Storage of Videos / Images

Inside Memory	100MB, about 80 pictures or one minute video record
Storage Media	8GB Micro SD Card, Stores >6000 images
Video Storage Format	Standard MPEG-4, 1280 x 960 @ 30fps, on memory card > 60 minutes
Image Storage Format	Standard JPEG, including measurement data, on memory card > 6000 pictures

Digital Camera

Built-in Visible Light Digital Camera	5 Megapixels
Built-in	59°

Data Communication

Interfaces	Mini USB, Audio, HDMI
USB	Data transform between camera and PC, Live video between camera and PC
Video Out	HDMI

Power System

Battery / Input Voltage	Li-ion Battery, 4 hours operating time / DC 5V
Charge System	In camera (AC adapter)
Power Management	Automatic shutdown

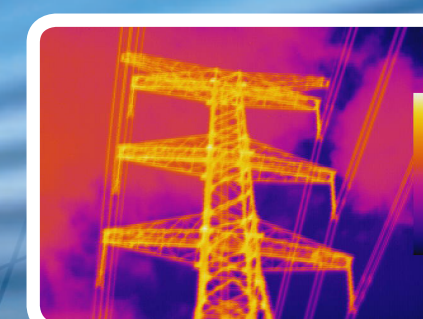
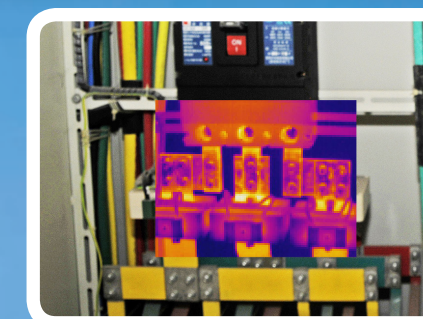
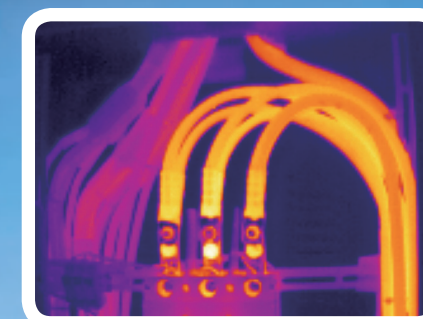
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TIS 1900

High Performance Thermal Image Camera



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T.I.S. 1900

High Performance Thermal Image Camera

Thermal Image Cameras are designed to make your work easier, more productive and effective. 80 x 80 resolution at 50 Hz for real-time capture; Temperature range from -20°C to 350°C (-4°F to 662°F), 32x 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.



Size (H x W x D):
224mm x 77mm x 96mm

Weight: 500g

Accessories: Infrared camera with lens, Earphone, Battery, software CD-ROM, Wrist strap, micro SD card, Adaptor, USB cable & HDMI cable, Gift box



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

- 1 2.8" LCD Display
- 2 Annotate images with voice
- 3 Picture-in-Picture
- 4 32x Continuous Zoom
- 5 5 Megapixels Digital Camera
- 6 Min/Max with Auto Hot/Cold Spot Mark



Product Characteristics

- ⊕ **High Resolution IR Images**
6,400 pixels (80 x 80) infrared resolution
- ⊕ **Visible Light Digital Camera**
5 Megapixels digital camera resolution with flash provides sharp images regardless of lighting conditions
- ⊕ **Picture in Picture**
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°C to +350°C targeting electrical and industrial applications
- ⊕ **±2% Accuracy** - Reliable temperature measurement
- ⊕ **Thumbnail view** - Easy to view and analyze images quickly
- ⊕ **Audio recorded with the video images**
A speaker to listen to audio recorded with the video image
- ⊕ **Li-ion Rechargeable Battery** - Lasts >4 hours continuous use; replaceable
- ⊕ **HDMI** - High resolution video output
- ⊕ **100MB internal memory** - About 80 pictures or one minute video record
- ⊕ **Copy to USB** - Easy upload images from camera to USB memory card
- ⊕ **Area (Min/Max) Mode**
Shows the minimum or maximum temperature reading in the selected area



Full Infrared



Picture-in-Picture



Colour Alarms



Full Visible Light