



Images above are from left to right, top to bottom: Human Face, Bale of Rubber, Firefighter, Studs in Wall, Flags, Circuit Breakers, Stack - Hot Gas, and Electrical Motor.

Benefits

- Affordable
- 270° articulating 2.8" LCD display
- Fast, easy inspections with movable LCD display, auto hot-spot trackers, & 40 seconds of voice recording
- Temperature measurement.
- Laser pointer
- 60 Hz RCA video output
- Internal Storage & SD Card slot
- Extended warranty

Applications

- Electrical inspections
- Mechanical surveys
- Building inspections
- Flat roof surveys
- Process equipment monitoring
- Research & development
- Epidermal/Skin temperature measurement and imaging



The ToughCam Professional portable thermal imager offers outstanding image quality and temperature measurement performance in an affordable, rugged and easy to use infrared camera.



ToughCam P Professional Series

ToughCam P Professional Series

Performance

Voice Annotation	40 seconds per image
Detector	Uncooled Microbolometer FPA 160 x 120 pixels
Accuracy	+2°C or +2%
Thermal Sensitivity	0.06C @ 30°C
Spectral Range	7 - 14 μm
Field of View	12 x 9
Spatial resolution (IFOV)	1.3 mrad
Minimum focus distance	6" to infinity
Temperature Range	-20° C to 600° C (-4° F to 1112° F) optional 1000°C
Temperature Units	C, F or K

Outputs

Image Frequency	60Hz (NTSC) or 50Hz (PAL)
Image Display	High resolution color 2.8" LCD
Image Storage	Stores up to 1000 images on onboard memory Stores up to 4000 images on 1GB SD Card
Laser Pointer	Class 2, 1mw / 635nm red
Interfaces	USB, Video, External Power

Power

Power	6-9 VDC; AC/DC power supply provided
Battery	Rechargeable li-ion, 3 hour operation

Environmental / Mechanical

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Environmental Protection	IP 54
Shock	30g
Vibration	3g
Size	9.5"L x 3"W x 2.5"H
Weight	19oz. (including battery and lens)
Palettes	11 palettes including color and blk and white
Tripod Mount	Standard ¼"-20

Accuracy

This ergonomically designed infrared camera is based on an uncooled microbolometer core that provides crisp imagery and accurate temperature measurements. Adjustable emissivity input and ambient temperature compensation insures accurate temperature readings.

Long life battery

A long life rechargeable Lithium-ion battery pack operates the camera up to three hours.

Large image capacity

Up to 1000 images can be stored to Toughcam's on board memory. A USB interface provides image transfer to your PC for analysis, report generation and printing. It will automatically store images at specially timed intervals down to one second.

Laser pointer

There is a built in laser pointer that facilitates identification of the equipment under inspection. Programmable trigger activates laser, point temperature, area temperature or save function.

Temperature measurement

Four moveable spot meters, 2 line profiles and isotherms provide temperature measurement throughout the entire image. There are three area boxes with three hotspot trackers and selectable maximum, minimum or average

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ICI Reporter Sample Overlay Image with Temperature Measurement, 3D Profile, and Line Profile

1. ICI Reporter gives a user the ability to overlay thermal images on a visible light image. Reporter can measure any point or area on this image using a point, line or area measurement feature.

2. ICI Reporter also provides a 3 dimensional profile of the thermal image.

3. ICI Reporter allows for to view temperatures across an area with up to 10 line profiles.

4. Temperature values are immediately dropped into a result table when the user places a measurement point or area on the thermal image.

5. Your final report is easily exported to a word document.

Picture info	Value
Created date	2009-01-15
Created time	08:30:38
Spot	Value
Point01Temp	113.1°F
Point02Temp	110.8°F
Line	Value
Line01Max	112.3°F
Line01Min	102.5°F
Line01Averag	108.3°F



.5x Wide angle lens



3x Telephoto lens



Settings

The settings include a standby feature, an auto shut off as well as an auto factory default setting that recovers original factory settings. It also has a visible and audible alarming system and a headphone jack for easy playback in noisy environments.

Standard Accessories

These include a heavy duty carrying case with shoulder strap, two batteries (standard Li-ion replaceable), battery charger, and a USB and RCA connection cable. The ToughCam also comes standard with an S-Video connection.

Optional

Optional wide angle and telephoto lenses are available, extending Toughcam's range of applications.

Visit us online: <http://www.InfraredCamerasInc.com>
1(866)861-0788 USA 1(409)861-0788 Intl



www.instrumentation.it

Via Acquanera 29, 22100 COMO (Italy) tel. +39.031.525391 - fax +39.031.507984 - info@instrumentation.it

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