



infraredcamerasinc.com
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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.
- Car charger included
- Laser pointer
- Hz RCA video output
- Stores over 1000 images
- Extended warranty
- FDA 510K Clearance

Applications

- Electrical inspections
- Mechanical surveys
- Building inspections
- Flat roof surveys
- Process equipment monitoring
- Research & development
- Medical Applications

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



ToughCam P Series



ToughCam P 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	21.1 x 15.8
Spatial resolution (IFOV)	1.9 mrad
Minimum focus distance	6" to infinity
Temperature Range	-20°C to 250°C (-4°F to 482°F) optional temp range to 500°C (932°F)

Temperature Units

C, F or K

Outputs

Image Frequency	60Hz (NTSC) or 50Hz (PAL)
Image Display	2.8" LCD
Image Storage	Stores up to 1000 images in onboard memory
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 1/4 "-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 temperatures. It allows for temperature correction with the input of emissivity, distance and relative humidity.



.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, car 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.