

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

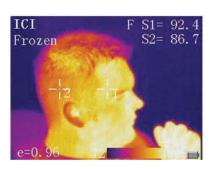


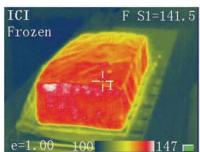
#### **Benefits**

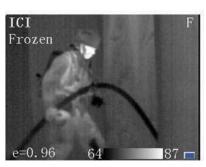
Affordable
270° articulating 2.8" LCD display
Fast, easy inspections with movable LCD
display, auto hot-spot trackers,
& 40 seconds of voice recording
Temperature measurement.
Laser pointer
60 Hz RCA video output
Internal Storage & SD Card slot
Extended warranty

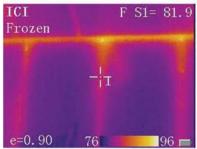
### **Applications**

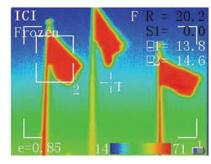
Electrical inspections
Mechanical surveys
Building inspections
Flat roof surveys
Process equipment monitoring
Research & development
Epidermal/Skin temperature
measurement and imaging

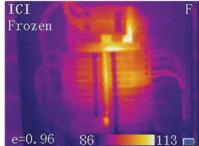


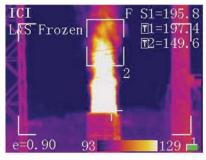


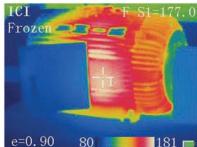












Images above are from left to right, top to bottom: Human Face, Bale of Rubber, Firefighter, Studs in Wall, Flags, Circuit Breakers, Stack - Hot Gas, and Electrical Motor.



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  $+2^{\circ}\text{C or } +2^{\circ}\text{C}$ Thermal Sensitivity  $0.06\text{C} @ 30^{\circ}\text{C}$ Spectral Range  $7 - 14 \mu\text{m}$ Field of View  $12 \times 9$ Spatial resolution (IFOV) 1.3 mradMinimum focus distance  $6^{\circ}\text{to infinity}$ 

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)

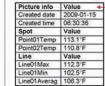
Palettes 11 palettes including color and blk and white

Tripod Mount Standard ¼ "-20

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







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

4.Tempera

Profit (195)

final report is easily exported to a word document.





.5x Wide angle lens

3x Telephoto lens

# 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

©2011 Infrared Cameras Inc. All Rights Reserved



#### 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

INSTRUMENTATION DEVICES SRL