Thermal Imaging Camera - RAZ-IR (PRO)

The RAZ-IR PRO is simply the very best RAZ-IR Infrared Camera available. Not only is it packed with every feature you would ever want or need, you will be surprised at just how affordable it is. Thermal infrared cameras (also called Infrared Cameras, Thermography Cameras, FLIR Cameras, etc.) allow you to visually image heat energy. Any infrared camera can do that, the RAZ-IR PRO is light years ahead of basic thermal imaging. Never before have so many advanced features been included on such a small and affordable system. The RAZ-IR PRO gives you Real Time (60hz) TV frame rate thermal imaging, integrated thermal and non thermal imaging (takes both a regular and thermal image with each shot), accurate multi-spot temperature measurement, multiple pallete color thermal imaging, huge digital image storage (8GBit) with voice comment recording, laser pointer, pro level reporting (with fully customizable templates) and thermal analysis software. It doesn't stop there because the RAZ-IR PRO is fully loaded with all the accessories you will ever need. When you combine all the features and performance of the RAZIR PRO, it is clearly the lowest cost highest performance choice for your thermography needs.

The RAZ-IR PRO is the perfect choice for Electrical Predictive Maintenance, Home Energy Audits, Building Envelope Inspections, PCB (Printed Circuit Board) Analysis, Veterinary / Medical Thermography, Pipeline Inspections and any other application you can think up. It can help locate missing insulation, air infiltration, incorrectly installed materials, improper caulking, roofing leaks / defects, black mold or hidden water damage and many more coslty problems in buildings and homes.

RAZ-IR
Ultra compact industrial color radiometric thermal infrared camera

Featuring:
integrated alarming,
temperature measurement
VISIBLE CAMERA
LASER TARGET LOCATOR
ADVANCED IMAGING FEATURES
Digital image storage with download USB
Included infrared analysis / reporting software

Ideal for:
Energy audits
Mold and insulation surveys
electrical and mechanical analysis
roofing and building envelopes
Research and development

SPECIFICATIONS

Imaging Performance

THERMAL

Detector Type	Uncooled FPA microbolometer, with image correction and full auto imaging and instant image enhancement. TV rate real time 60 hz sensor
Spectral Range	8-14μm LWIR Long Wave Infrared
Field of View	25? /span>19? - Point and shoot imaging
Thermal Sensitivity	1/10 degree sensitivity

VISUAL

Built- in Digital Video colors	CMOS Sensor, 640 x 480 pixels, auto balance and auto gamma.

Image Presentation

External Display LCD	2.2″TFT active matrix High resolution color
Display Color	256 level, 8 palettes (Rainbow, iron, B&W, etc) custom palettes user defined. 2X digital zoom onboard

Measurement

Temperature Range	-20 to +250 C
System Architecture	Fully Digital with onboard and post processing manipulation
Measurement Modes	Spot / manual (up to 4 moveable), spot / automatic placement at max, area (up to 4 moveable) displaying either max, min, or average, isotherm, line profile, auto alarm
Emissivity Correction	Variable from 0.01 to 0.99 (in 0.01 increment)
Measurement Features	Automatic correction based on user input for reflected ambient temperature,distance, relative humidity,atmospheric transmission and external optics

Image Storage

Type	Built-in Flash memory (8G bit capacity)
File Format	IRI (An individual file consists of infrared image, visual image and voice annotation)
Voice Annotation	Variant for different files, up to 180 seconds per file. User can record a voice comment to every image saved

System Status Indication

LCD Display	Shows status of battery, indication of power
Sound Alarm	Automatic alarm for low battery + audible Alarm for max/min temperature rise/fall, user defined.

Laser Locator

Classification Type	Class 2 semiconductor laser

Battery System

Type:	Li-ion battery, rechargeable, field replaceable (4 Batteries included)
Operating Time:	Over 2 hours continuous operation per battery

Charging System:	In camera via USB interface from AC adapter (96-250 VAC) or in battery charger
Power Dissipation:	< 3W

Environmental Specification

Operating Temperature:	-20c+60c
Storage Temperature:	-20c- +60c
Humidity:	Operating and storing 10% to 95%, non- condensing
Encapsulation:	IP54
Shock:	Operational: 25G, IEC 68-2-29
Vibration:	Operational: 2G, IEC 68-2-6

Interfaces

USB1.1:	Image (thermal & visual), measurement, voice and digital video transfer to PC
Included software bundle	-Fusion IR proprietary infrared imaging color software w/image notation, custom color palettes, and documentation. -EZ report word based proprietary software for instant documentation and evidentiary imaging Vref. -RSW radiometric Full analysis and reporting software suite
Weight:	0.265Kg (including battery)
Size:	120mm₃60mm₃30mm (Standard Model)
Weight:	0.265Kg (including battery)