

NEW
1200°C
High-Temperature
Models Available!

IR FLEXCAM T

PORTABLE INFRARED CAMERA

The IR FlexCam® T is a fully-radiometric, portable, video rate infrared camera with outstanding image quality and instant non-contact temperature measurement. The **Sharper Simpler Smarter™** design features combine unprecedented ease of use with a rich set of functionality.



SHARPER SIMPLER SMARTER

SHARPER

- 5" high-resolution, sunlight readable color LCD
- Highly sensitive detector produces exceptionally clear and crisp video images
- Eight different color palettes enhance versatility of the image on the large display
- 180-degree articulating lens joint
- Automatic full-time enhancement results in exceptional image quality
- Interchangeable lenses

SIMPLER

- FlexView™ companion software package expedites image downloading and analysis (at no additional cost)
- Exceptionally easy to use
- Intuitive operation with on-camera Windows® CE interface
- Easy to navigate menu structure
- Mouse-pointer with left and right mouse button allows for user familiarity

SMARTER

- Precise non-contact full-screen temperature measurement from 0°C to 1200°C (32°F to 2192°F)
- FlexView™ provides comprehensive post-image temperature analysis and report generation capabilities
- Programmable buttons allow for access to frequently used commands
- Ergonomically efficient design facilitates scanning of awkwardly positioned targets and reduces user fatigue
- Battery charge capacity gauge
- User specified shutdown and sleep modes increase battery and camera life



APPLICATIONS

Predictive Maintenance

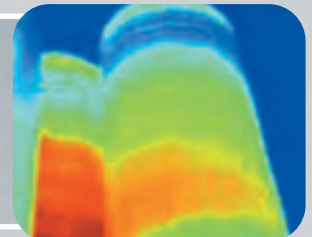
Identifying and fixing electrical and mechanical problems can reduce downtime, prevent disastrous failures and save time, lives and money.



LOOSE DISCONNECT

Process Monitoring

Monitoring and observing temperatures of processes in real-time can save time and money by ensuring that they are operating safely and efficiently.



PAPER ROLLER

Quality Control

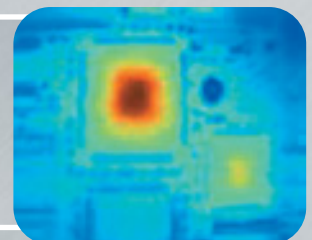
Examining prototypes and parts for potential heat related design deficiencies enables companies to release better and more durable products to the market.



RUBBER TIRE MOLD

Research and Development

Visualizing and quantifying the heat patterns generated enables engineers to improve their product as well as the processes used to create it.



PROCESSOR ON CIRCUIT BOARD

Infrared Solutions

3550 ANNAPOLIS LANE NORTH SUITE 70

PLYMOUTH MN 55447 USA

T 800 760 4523 F (763) 551 0038

WWW.INFRAREDSOLUTIONS.COM

infrared
SOLUTIONS
 SHARPER • SIMPLER • SMARTER™



Imaging Performance	
Detector	Focal Plane Array (FPA), Vanadium Oxide (VO _x) Uncooled Microbolometer
Spectral Band	8µm to 12µm
Thermal Sensitivity @ 30Hz	≤0.090°C at 30°C
Focusing	Single Finger Manual Focus
Digital Image Enhancement	Automatic Full-time Enhanced
Display and Image Storage	
Digital Display	5" high-resolution, 320 x 240, sunlight readable color LCD
On-screen Indicators	Indicate status of battery, target emissivity, background temperature and real-time clock
Palettes	8 unique palettes available
Storage Medium	Compact Flash Card (stores over 600 images). Larger capacity cards available.
File Formats Supported	14 bit measurement data included. Exportable JPEG, BMP, PCX, PNG, PSD.
Set-up Controls	Date/time, Temperature units C/F, Language, Scale, LCD intensity (high/normal/low)
Image Controls	Level, Span, Auto Adjust (continuous/manual)
Temperature Measurement	
Calibrated Temperature Ranges	Range 1 = 0°C to 100°C (32°F to 212°F) (standard model) Range 2 = 0°C to 350°C (32°F to 662°F) (standard model) Range 3 = 250°C to 600°C (482°F to 1112°F) (standard model) Range 4 = 500°C to 1200°C (932°F to 2192°F) (high temperature "HT" model)
Accuracy	±2°C or ±2%
Measurement Modes	Moveable point, centerpoint, center box (area min/max, average), color alarm above and below
Emissivity Correction	Based on user input. Variable from 0.1 to 1.0 (0.01 increments)
Standard Optics	
20mm f/0.8 Germanium	Field of view: 23° Horizontal x 17° Vertical (optional lenses available)
Spatial Resolution (IFOV)	2.6 mrad IFOV, 0.15m minimum focus
Power	
Battery Type	Li-Ion Smart Battery, rechargeable, field-replaceable
Battery Operating Time	3 hours continuous operation
Battery Charging	2 bay intelligent charger powered via AC outlet
AC Operation	AC adapter 110/220 VAC, 50/60Hz (optional)
Power Saving	Automatic shutdown and sleep modes (user specified)
Interfaces	
Video Output	RS170 EIA/NTSC or CCIR/PAL composite video
Physical Characteristics	
Weight	1.95kg (4.3lbs) including battery
Size	69mm x 262mm x 162mm (2.75" x 10.5" x 6.5") camera only
Tripod Mounting	1/4" – 20 UNC
Environmental	
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Storage Temperature	-40°C to +70°C (-40°F to 158°F)
Humidity	Operating and storage 10% to 95%, non-condensing
Shock / Vibration	25G, IEC 68-2-29 / 3G, IEC 68-2-6
Encapsulation	IP54, IEC 60529
Transit Drop	MIL-STD-810F, Method 516.5, Procedure IV
Agency Approvals	CE approved (EN61326 standard)
Warranty	
Term	12-month warranty included; extended options available

Standard Equipment			
IR Camera with 20mm f/0.8 lens	FlexView™ Software	Heavy Duty Carrying Case	Operation Manual
Compact Flash Card	Shoulder Strap	PCMCIA Adapter	Video Cable
USB Card Reader	2 Rechargeable Batteries	Battery Charger	
Optional Equipment			
54 mm Telephoto Lens (9°H x 6°V), 0.94 mrad IFOV, 0.6m min Focus	10.5 mm Lens (42°H x 32°V), 4.9 mrad IFOV, 0.3m min Focus	Power Cable for 12v from car to charger AC Adaptor	Laser Pointer Extra Batteries Sun Shield