

# IR FLEXCAM PRO

PORTABLE INFRARED CAMERA

The IR FlexCam<sup>®</sup> Pro is a fully-radiometric, portable, video rate infrared camera with outstanding image quality. 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 with thermal sensitivity  $\leq 0.080^{\circ}\text{C}$
- Eight different color palettes provide image viewing options on the large display
- 180-degree articulating lens joint
- Records subtle temperature changes for both moving and still targets in real-time

### SIMPLER

- Capture thermal images automatically with programmable image capture triggered by thermal conditions or timed intervals
- Exceptionally easy to use
- Intuitive operation with on-camera Windows<sup>®</sup> CE interface
- Easy to navigate menu structure
- Mouse-pointer with left and right mouse button allows for user familiarity
- FlexView™ companion software package expedites image downloading and analysis (at no additional cost)

### SMARTER

- Precise non-contact full-screen temperature measurement from  $0^{\circ}\text{C}$  to  $1200^{\circ}\text{C}$  ( $32^{\circ}\text{F}$  to  $2192^{\circ}\text{F}$ )
- Easily attach customized comments to your images
- FlexView™ provides comprehensive post-image temperature analysis and report generation capabilities
- Programmable buttons allow for quick access to frequently used commands
- Ergonomically efficient design facilitates scanning of awkwardly positioned targets and reduces user fatigue
- Battery charge capacity gauge



## APPLICATIONS

### Predictive Maintenance

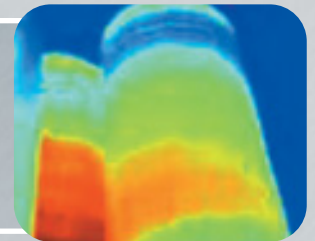
Identifying and fixing electrical and mechanical problems can reduce downtime, prevent disastrous failures and save time, lives and money.



HOT CONNECTION

### Process Monitoring

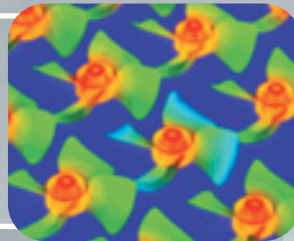
Monitoring and observing temperatures of processes in real-time can save time and money by ensuring that they are operating safely and efficiently.



PAPER ROLLER

### Quality Control

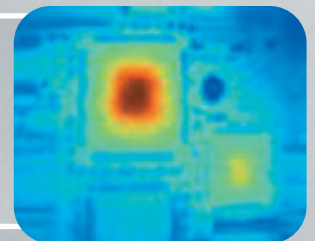
Examining prototypes and parts for potential heat related design deficiencies enables companies to release better and more durable products to the market.



PLASTIC FANS

### 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

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**infrared**  
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SHARPER • SIMPLER • SMARTER™



Imaging Performance	
Detector	Focal Plane Array (FPA), Vanadium Oxide (VO <sub>x</sub> ) Uncooled Microbolometer
Spectral Band	8µm to 14µm
Thermal Sensitivity @ 30Hz	≤ 0.080°C at 30°C
Focusing	Single Finger Manual Focus
Electronic Zoom	2X
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 temp 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)
Text Annotation of Images	User definable, automatically included in reports
Programmable Image Capture	Program camera to automatically capture thermal images
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) (optical high temperature "HT" model)
Accuracy	±2°C or ±2%
Measurement Modes	Movable point, centerpoint, center box (area min/max, average), automatic hot and cold point detection, isotherm, 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 or 12v from car (optional)
AC Operation	AC adapter 110/220 VAC, 50/60Hz
Power Saving	Automatic shutdown and sleep modes (user specified)
Interfaces	
Video Output	RS170 EIA/NTSC or CCIR/PAL composite video
USB	USB peripheral devices (mouse)
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	AC Adapter	Video Cable
USB Card Reader	2 Rechargeable Batteries	Battery Charger	PCMCIA Adapter
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	Laser Pointer Extra Batteries Sun Shield