



## The Infrared, Inc. CAM\IR 2003 Medical System

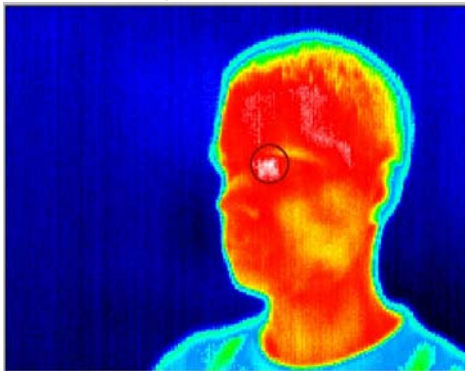
For monitoring and analysis of body temperature to prevent the proliferation of disease.

This complete system provides accurate thermal images of body surface temperature. The system monitors temperatures and can be adjusted to set off alarms when a temperature exceeds a preset threshold. The system operates at realtime update rates and displays images in selectable color palettes on the computer display. Temperature resolution is <math><0.25^{\circ}\text{C}</math>. The cameras are compact, rugged and operate 24/7 non-stop. Simple, user friendly Windows™ based interface software is easily and successfully operated. Cost effective operation does not require constant operator monitoring with the exclusive image\IR 2003 alarm system.

### Applications:

- Entry and Exit Zone Body Temperature Surveillance
- Airport Passenger Monitoring
- Analysis At Control points
- Screening in Public Events
- Industrial Entry Medical/Security Prevention
- Hospital Monitoring
- Business Employee Monitoring and Protection

### Infrared, Inc. CAM\IR 2003 Medical Infrared Computer Monitor Image



Circled area has set off alarm. The circular indicator has moved to show the operator the region of highest temperature. Visual analysis shows the extent of the high temperature distribution. The real time operational image displays the scale as well as the image. The operator sets the thermal temperature range and set point/alarm level.

### Functions:

Real time Video Display on large flat-screen display.  
 Selectable Color Palette  
 Selectable Temperature Threshold for Alarm  
 Visual indication of area of Alarm  
 Reporting of Temperature for Alarmed Region

Selectable Audible Alarm  
 Reproducible Accuracy within 0.5°C  
 Absolute accuracy: +/- 1 degree C.  
 Temperature Data Reported:  
 Minimum and Maximum of scene  
 Threshold Temperature  
 Alarmed Region Temperature  
 Nonstop Operation

### Operating Environment:

Direct line of sight required.  
 Optimal at 21°C, range 15°C - 35°C  
 Single operator, part time

### System Components Included:

Infrared, Inc. model cam\IR 2003 Medical camera and accessories  
 USB interface  
 Power supply  
 All necessary cables  
 Image\IR 2003 Medial Threshold software  
 Image\IR 2003 Designed video Capture PCI board  
 Optional image\IR 2003 PCMCIA laptop image frame grabber.

**Computer:** (PC or Laptop) can be supplied by customer

### Warranty:

One year warranty provided with purchase  
 Extended warranty programs available (additional costs apply)

\* Windows is a Microsoft trademark



**SYSTEM FEATURES:**

- The Cam\IR 2003 thermal imaging system offers a revolutionary approach to thermal analysis.
- The system's laptop computer becomes a high-resolution thermal imager while the system's camera provides for non-contact temperature measurements and automated alarms.
- With the Cam\IR 2003 you can study and verify thermal analysis.
- High resolution images allow comprehensive steady-state thermal analysis to be conducted in fractions of the time required with thermocouples.
- With our standard software, Infrared, Inc. Image IR\2000, the Cam\IR 2003 becomes a powerful data acquisition and thermal analysis system.
- Windows 95/98 compatibility means images can be cut and pasted into word processing applications

CAM/IR 2003 Medical System Specifications	
Temperature ranges	-20°C to 100°C 0°C to 250°C 150°C to 900°C (optional)
Detector	Focal Plane Array (FPA) uncooled micro bolometer 35 x 35 μm <sup>2</sup>
Thermal Sensitivity (NETD)	0.08 K with 31° FOV/F=0.7 0.3 K with 9° FOV/F=1.6
Spectral range	7.5 - 13 μm
Optical resolution	160 x 120 pixel
System accuracy	±2 % or ±2°C
Resolution (Display)	0.1°C

Lenses	31° /f = 10 mm 9° /f = 36 mm
Measurement Modes	Flexible spot with crosshair marking, fixed measurement field with automatic display of maximum-, minimum- or average Value
Color Palettes	Iron, rainbow, black-white, black-white inverted
Set up controls (via menu)	Measurement modes, full automatic, manual, color palettes, emissivity, file management, date/time, °C/ °F, language
Emissivity	0.10 - 1.00 adjustable

**SYSTEM OPTIONS:**



**CAM/IR 2003 Medical Wired LAN Camera**



**Laptop**



**CAM/IR 2003 Medical Wireless LAN Camera**



**Laptop**

**For the best solution to Swine Flu Detection, contact:**

**Infrared, Inc.  
P.O. Box 20369  
Reno, Nevada 89515-0369**

**Tel: 775-827-2440 Fax: 775-827-2441  
www.infrared.com**