

Temperature Screening for Travelers

Control of Pandemic Influenza / SARS and individuals presenting with fever.

The Meditherm temperature screening system is a turn-key package. It includes the Meditherm real-time Radiometric IR camera, Camera stand, Computer, Software, and Touch-screen Flat Panel user interface/screen. The system monitors temperatures, displays thermal images and has an adjustable temperature threshold to provide an alarm when a temperature exceeds the chosen threshold. The camera operates at real-time update rates, and displays images in color on a flat panel display. Temperature resolution is $<0.25^{\circ}\text{C}$. Ambient temperature compensation assures readings are accurate as room temperatures change. The system is totally portable, compact, rugged, and is designed to operate 24/7. If needed, a weatherproof option is available. The touch-screen interface assures non-technical users can quickly learn to operate the system.

The Temperature Screening System offers a number of benefits.

- Realtime screening eliminates the need for queues.
- Simple user interface allows anyone to quickly become proficient at operating the system.
- Visual and audible alarms permit fast identification of source of alarm.
- Stable calibration over ambient temperature changes ensures excellent measurement repeatability.
- Selectable alarm threshold provides measurement flexibility.

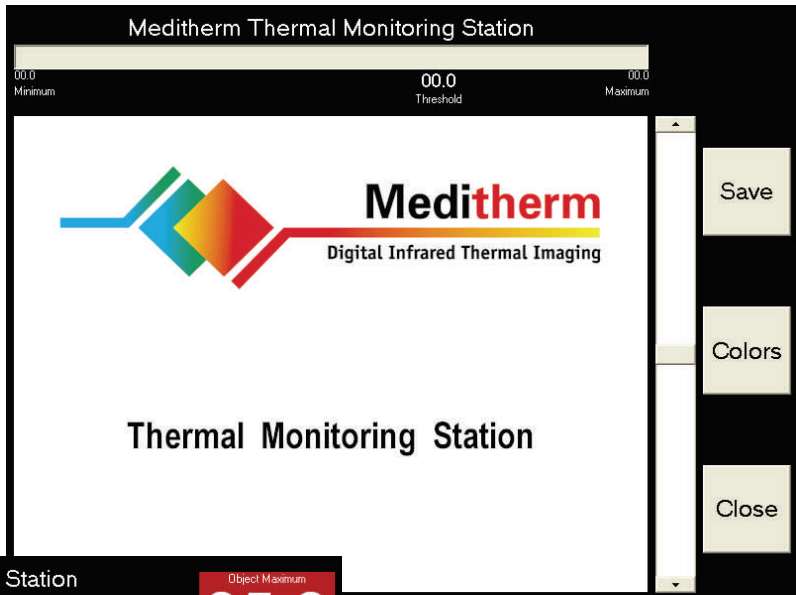


Medical Temperature Detection Applications:

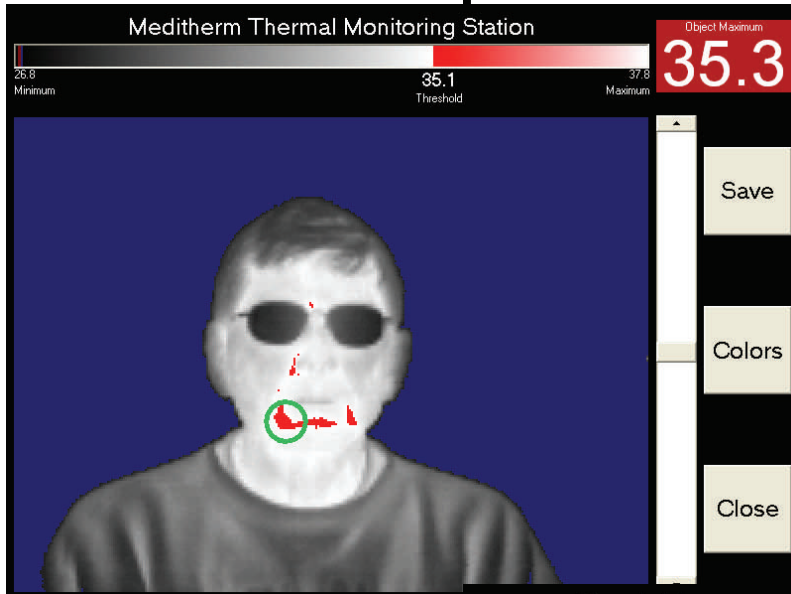
- SARS / Avian Flu / Epidemic screening
- Temperature screening
- Threshold Temperature detection
- Temperature Alarm applications



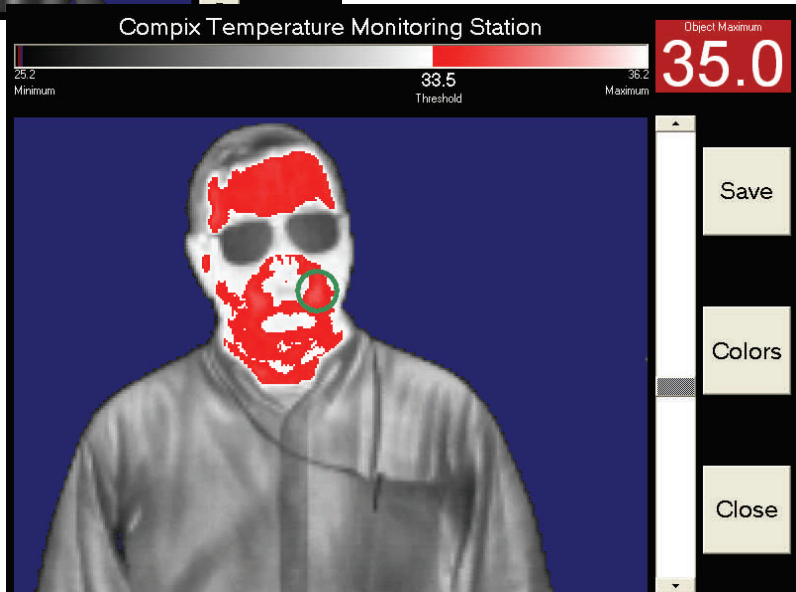
Open the Program



Set the Threshold Temperature



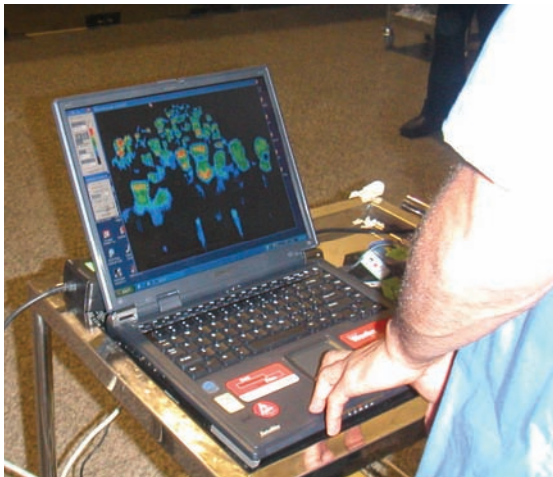
Adjust for regional Influences (Normals)



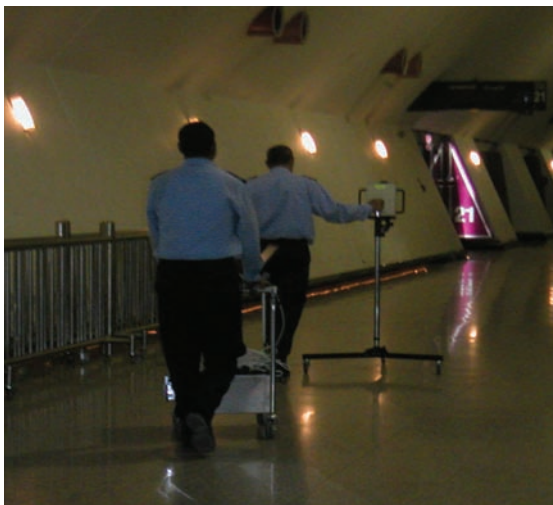


Setup is very quick and easy and can be handled by any designated operator with the minimum of training.

A well chosen 'choke' point allows minimum inconvenience to travelers while ensuring that everyone is adequately screened



Simple software processing of accurate and sensitive temperature measurement



Totally portable Can be moved between screening points and setup in less than 3 minutes.

Technical specifications

Imaging Performance	
Temperature range	10° C to 50° C (50° F to 122° F)
Measurement accuracy	1.2%
Stability (after 1 minute warm-up)	< 0.3° C drift over the temperature range 18° C to 30° C (< 0.5° F drift over the temperature range 64° F to 86° F)
Ambient correction	Automatic
Detector	
Focal Plane Array	Amorphous Silicon microbolometer
Pixels	160 x 120; Interpolated to 320 x 240
Spectral Response	7-14 microns
Thermal Sensitivity	0.1° C @ 30° C (0.2° F @ 86° F)
Display	
Dynamic range	12 bit
Displayed image	8 bit
Display color	5 user selectable colormaps
ISO band display	Automatically set to selected threshold temperature.
Power requirements	
Power Source	95-225 VAC, 45-65 Hz
Battery / external DC option ²	6-32 VDC, minimum of 3 Watts continuous, 1 Ampere for a short time at start-up.
Environmental characteristics	
Operating Temperature	0° C to 60° C (32° F to 140° F)
Storage temperature	-40° C to 80° C (-40° F to 176° F)
Physical characteristics	
Enclosure	EMI shielded
Overall dimensions (H x W x D)	12cm x 19cm x 14cm (4.7" x 7.5" x 5.5")
Weight of camera	1.7kg (3.7 lbs)
Weight of camera stand	11kg (24 lbs)
Calibration	
Recommended interval	2 years
Optics	
Focal length	25mm (1")
Field of view	17° H x 12° V
Focus range	1m to infinity (39" to infinity)
Standard accessories	
Computer	Desktop or mini tower personal computer (PC).
Display	15" flat panel touch-screen LCD.
Software	Full featured with threshold detection, data logging, camera control.
Cables	All necessary cables are supplied with the system.
Camera stand	Roll-about stand included.