



Thermal Imaging Camera TI 120

For Medical Application

TI 120 is a professional thermal imaging camera for medical application. utilizing advanced thermal imaging technology, it can scan thermal images even for flowing crowds with high efficiency and stability, which allows the examiner to visualize abnormal skin surface temperature with accurate, non contact, non invasive technique, which is the ideal device of the frontline of defense for government and corporation in public and private sectors to present possible fatal virus like SARS, Bird flu, H1N1 flu. also applying for clinical, veterinarian and research medicine.



Features:

- New generation high performance IR detector 160x120 pixels 25 μm : Improve image quality and increase thermal Sensitivity.
- Crisp thermal images: Users can trace objects easier and rapidly with integrated images.
- Bright 3.5" Color LCD: Produce sharper and clearer image.
- 50Hz Real-time Imaging: Smooth and crisp thermal image.
- Automatic tracing and alarming: Indicate and trace the objects which their temperature is going beyond the defined value.
- Non contact monitoring: Operated without giving any inconvenience or panic to the flowing crowds.





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Technical Specifications:

Detector Data	
Detector type	Focal plane array(FPA), uncooled microbolometer
IR resolution	160 x 120 pixels
Pixel pitch	25 μm
Spectral range	8-14 μm
Imaging and Optical Data	
Field of view (FOV)	18° × 13.5° /0.15m
Spatial resolution (IFOV)	1.4mrad (18° × 13.5°)
Thermal sensitivity	100mk at 30℃
Image frequency	50/60Hz
Focus	Manual
Image Presentation	
Display	3.5"color LCD
Measurement	
Temperature range	20℃ ~ +50℃
Accuracy	±0.6℃
Measurement spot	1 moveable spot
Measurement area	Up to 3 moveable areas, automatically capture maximum, minimum, average temperature
Line profile	Horizontal , vertical
Isotherms analysis	Yes
High temperature alarm	Voice, color
Emissivity correction	Adjustable from 0.01 to 1.0
Temperature correction	Auto
Image Storage	
Storage card	Build-in flash card, up to 1500 images
File formats	Standard JPG, 14 bit measurement data included.
Voice comments	40s voice record, stored with per image via built-in microphone
Laser Indication	
Classification type	Class 2, 1mW/635nm Red
Power System	
Battery type	Rechargeable and replaceable LI-ion battery
Battery operating time	Approx. 2 hours
Power saving	User defined
Power operation	7-9V DC
Environment Data	
Operating temperature range	-20℃ - +50℃
Storage temperature range	-40℃ - +70℃
Humidity	≤90%(non-condensing)
IP rating	IP54 IEC529
Shock test	25G IEC68-2-29
Vibration test	2G IEC68-2-26
Physical Data	
Size	330mm x 95mm x 86mm
Weight	650g
Tripod mounting	1/4"-20
Interface	
External DC input	Yes
Audio output	Yes
Video output	PAL/NTSC
PC	USB
Camera Includes	
Standard	Thermal Imaging camera with 18° standard lens, 2 LI-ion batteries, Charger, Adaptor, Video cable, VGA cable, USB, Software CD, Manual, Warranty card, Transport case
Options	Tripod, LI-ion battery, Infrared lens

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