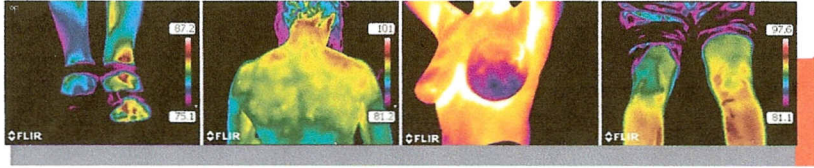


FLIR A320 StartIR Kit

INFRARED CAMERA FOR Medical Thermography



Medical Thermography, is a accurate, quantifiable, non-contact, non-invasive, diagnostic technique that allows the examiner to visualize and quantify changes in skin surface temperature using high performance infrared cameras.

- Accurate Temperature Measurement
- Low Temperature Drift over time
- Plug and Play Ethernet Interface
- Remote & Autofocus control
- Highly Sensitive Detector

- Simple Image Viewing and Capture Software
- Multiple Training and Interpretation Options
- FDA 510 Validated
- Local Support and Service

Accurate Temperature Measurement

The A320 camera is calibrated by experienced engineers using NIST traceable equipment at our US based calibration lab making the camera's absolute accuracy +/- 0.30 C when looking at a 27C black body source over multiple days.

Proven Low Temperature Drift Over Time

The A320 camera features revolutionary temperature drift compensation technology to correct for ambient temperature changes in the environment over time. Using on camera temperature compensation techniques, FLIR has proven repeatability of our measurements over hours and multiple days showing less than 0.39 C drift!

Plug & Play Ethernet Interface

The A320 camera is truly plug & play using PC & Laptop standard Ethernet interfaces to both control the camera and capture data from it in real time. The user can even control the camera remotely with cable runs up to 300ft.

Remote & Autofocus Control

The A320 camera features autofocus and remote focus controls through the ExaminIR software interface, making it easy to control the focus directly from the user computer and get crisp high quality images.

Highly Sensitive Detector

The A320 camera features a 320x240 pixel array which can detect temperature changes down to 0.05C. The detector is optimal for human skin temperature measurement and measures thermal energy within the 7.5um to 13.5um Infrared waveband.

Simple Image Viewing & Capture Software

The A320 StartIR Kit comes complete with FLIR's R&D software, which makes viewing and capturing the IR imagery from the A320 camera quick and easy. Simply connect the camera and run the R&D software. It will automatically find the camera and begin displaying the live thermal image. To capture the data you simply type a name for the file, directory to store the data, and push the button to record. It's that easy!

Multiple Training & Interpretation Options

In order to maximize flexibility for your practice, FLIR's solution is compatible with multiple Medical Thermography training centers and corresponding Thermogram Interpretation services that support the FLIR A320 StartIR Kit solution. So you are never limited in your interpretation options.

FDA 510 Validated

The FLIR A320 camera is one of the only IR cameras in the commercial market that has been FDA 510 Validated, which is added piece of mind for your Medical Thermography practice.

Local Support and Service

FLIR Systems offers three tiers of camera and software support options to ensure our customer's success with their FLIR Medical Thermography Solution. All support options are included with the package and consist of a web based support tool, phone support with FLIR engineers, and if required local on-site support from our local Sales and Support Engineers.

FLIR A320 StartIR Kit for Medical Thermography

	A320 Camera	A325 Camera
Detector Specifications		
Detector	Microbolometer, Snap Shot Focal Plane Array	
Spectral Range	7.5 to 13 micro meters	
Resolution	320x240	
Dynamic Range	14-bit	
Performance Specifications		
Standard Temperature Ranges	-20°C to +120°C (-4°F to +248°F) 0°C to +350°C (+32°F to +662°F)	
Sensitivity in NEdT @ 30°C	< 50mK	
Absolute Accuracy @ 27°C	+/-0.30°C	
Temperature Drift @ 27°C	0.39°C	
Digital Data Output		
Digital Data Output Type	Ethernet	Gigabit Ethernet
Data Capture Rate	7 frames/second	60 frames/second
Analog Video Output	Standard NTSC	Not Available
Lens Specifications		
Field of View	25° x 18.8°	
Focus Control	Automatic or Manual	
Electronic Zoom	1x, 2x, 4x	
Camera Specification		
Dimensions LxWxH (mm) / Weight (kg)	6.7 x 2.8 x 2.8 in / 1.54lb	
Tripod Mount	UNC 1/4"-20 (on three sides)	
Operating Temperature Range	-15°C to +50°C (+5°F to +122°F)	

FLIR's R&D Software

The screenshot displays the FLIR QuickPlot software interface. The main window shows a thermal image of a human torso with a color scale on the left ranging from 88.1 °F to 96.1 °F. The software includes a menu bar (Organize, Analyze, Options, Help, Exit) and a toolbar with various analysis tools. A 'Zoom & Pan' panel on the right shows a zoomed-in view of the torso. Below this, a 'Scale' panel displays the following data:

Min:	Max:	Level:	Span:
88.1 °F	96.1 °F	92.1 °F	8.0 °F

The 'Results' panel shows the following information:

- Image: 96.9 73.1 °F
- Parameters
- Image information

At the bottom, an 'Images (6)' panel shows a sequence of thermal images: Sample Patient Front Image.jpg, Sample Patient Left Oblique, Sample Patient Left Side, Sample Patient Right Oblique, Sample Patient Right Side, and IR_0736.jpg.