



**FLIR A320**  
4NLV9 (9Hz)  
4NLW1 (30Hz)

**NEW!**

# Thermal Imaging Camera for Scanning Elevated Body Temperatures

- Built-in "Adaptive Algorithm" compensates for changes in ambient conditions, allowing for optimal use in hot or cold or changing environments
- "Color Alarming" makes it easy for operators to identify the "hot persons within a crowd"
- Extremely accurate temperature measurement to  $\pm 2^{\circ} C$  (3.6 $^{\circ} F$ ) or 2% of reading
- Real-time measurement Analog & MPEG-4 Digital Video Output
- Plug & Play Compatibility with network video recording (NVR) packages
- Stand-alone operation, No PC needed
- Multiple Users can access data from multiple cameras from remote locations
- Maintenance-free, Uncooled, Microbolometer Detector



## FLIR A320 Features

- **Instant, Remote, Non-contact Temperature Measurement** — Identify persons with elevated body temperatures.
- **Elevated Temperature Adaptive Algorithm** — Automatically normalizes for variations in ambient temperatures (i.e. room temperature), allowing operators to correctly identify "out-of-norm" persons as their body temperature is compared with the average body temperature of all others in close proximity or an "average group body temperature," so to speak. This proprietary algorithm helps operators "pick the hot person out of the crowd," and reduces the chance for human/operator error.
- **Color Alarming** — The "color alarming" feature allows operators to set a predetermined "threshold temperature," for example of 101 $^{\circ}F$ . When the camera detects a body temperature of 101 $^{\circ}F$  or higher, it automatically colors that area of the face in a color of your choosing – say bright red as the image below shows. This further helps the operator to "see" the prospect of an elevated body temperature quickly and more easily.

- **FLIR A-series telethermographic cameras, as designated by the FDA under Section 510 (k), for the following indications of use:**
  - > The FLIR devices are intended for use as an adjunct to other clinical diagnostic procedures in the diagnosis, quantifying, and screening of differences of skin surface temperature changes.
  - > It can visualize, document temperature patterns and changes.
  - > The environments of use are: hospitals, sub-acute, public areas (i.e. airports), etc.
- **Training** — FLIR manages the world's largest infrared camera training organization, the Infrared Training Center or ITC. Expert guidance and training as well as post-sale technical support is available for deployments of FLIR thermal imagers for elevated body temperature detection. We offer training and post-sale technical and customer support worldwide.



Fixed-mount A320 w/full thermal imaging on video monitor.



Fixed-mount A320 w/full thermal "color alarming" in progress.

# FLIR A320 Specifications

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Measurement	
Temperature range	-4°F to 248°F (-20°C to 120°C)
Accuracy	2%
Imaging Performance / Image Presentation	
Field of view/min focus distance	25° X 18°/0.4m (1.3 ft.)
Focusing	Auto focus, motorized manual
Thermal sensitivity (N.E.T.D)	<0.1°C at 25°C
Detector Type	Focal plane array (FPA) uncooled microbolometer; 320 X 240 pixels
Spectral range	7.5 to 13µm
C-video	PAL/NTSC (25/30Hz or 9Hz)
MPEG-4	RTSP/RTP/UDP
	Frame rate: dependent on image quality set (size & compression)
	Image size: 640 x 480/320 x 240/160 x 120
16-bit Signal w/Radiometric data	Frame rate: Maximum (7.5-8.5Hz)/5Hz/2Hz/1Hz/0.5Hz/0.2Hz, 0.1Hz.
16-bit signal TCP/IP (DirectX)	Image size: 320 x 240/160 x 120.
16-bit Temp linear TCP/IP (DirectX)	What's achieved is dependent on image quality set size available network bandwidth & CPU load
I/O Functionality	
Digital out: 2 Outputs, optoisolated, 10-30V supply, 100mA	Alarm (internal temp, analog in, digital in) Program control
Digital in: 2 Outputs, optoisolated 10-30V	Batch enable, Store image, ALARM, Mark image (start/stop/time)
Power Source / Environmental Specs	
AC operation	AC adaptor 90-220VAC
Adaptor Voltage	12 VDC output to camera
Operating temperature range	5°F to 122°F (-15°C to 50°C)
Storage temperature range	-40°F to 158°F (-40°C to 70°C)
Humidity (Operating & storage)	IEC 60068-2-30/24 h 95%RH 77°F to 104°F (25°C to 40°C)
Encapsulation	IP40 (IEC 60529)
Bump, Operational	25G (IEC 60068-2-29)
Vibration, Operational	2G (IEC 6008-2-6)
EMC	EN 61000-6-2:2001 (Immunity)
	EN 61000-6-3:2001 (Emission), FCC 47 CFR Part 15 Class B (Emission)
Dimensions/Weight	6.7x2.8x2.8" (170x70x70mm)/<1.54lbs (0.7kg)
Base Mounting	2 x M4 thread mounting holes (on three sides)
Tripod Mounting	UNC 1/4"-20 (on three sides)

*Thermal imaging scanning to detect elevated body temperature will vary with various factors and should not be relied upon as the sole determinant of a person's body temperature. Use of additional medical devices and/or healthcare professionals will be needed to properly diagnose the condition of persons in any health screening assessment to identify elevated body temperature for any persons.*

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