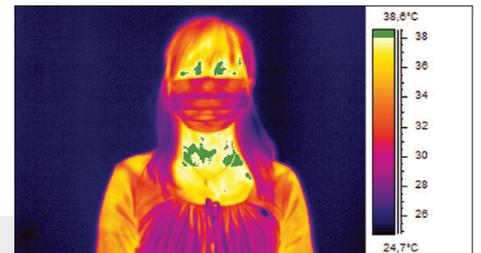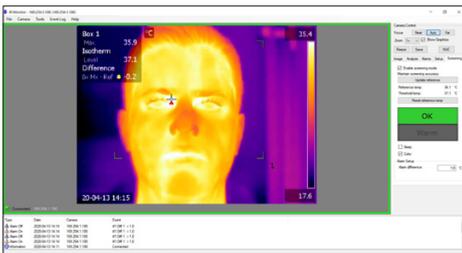# FLIR

FIXED-MOUNT THERMAL CAMERA FOR SKIN TEMPERATURE SCREENING

FLIR A320™
TEMPSCREEN

The FLIR A320 Tempscreen camera is preconfigured for screening individuals to find temperature deviations or elevated skin temperature. This remote, non-contact measurement solution offers difference temperature alarms with a dynamically updated reference temperature. The camera features built-in analysis, audible and visible (color) alarm functionality, and autonomous communication using standard protocols. It can be installed almost anywhere, allowing consistent monitoring of people or monitoring of critical equipment, infrastructure, and facilities.

www.flir.com/A320-tempscreen

SMART MEASUREMENT, ANALYSIS, AND ALARMS

FLIR A320 Tempscreen offers a range of smart features for detecting temperature deviations

- Screen individuals and set color or sound alarms to go off when the average temperature is exceeded by a specific amount, e.g. +1°C

- Reduce false alarms with dynamically updated reference temperatures, visualized by the isotherm

- Use alarm function to trigger automatic dispatch of analysis results, thermal images, and more

EASY INTEGRATION WITH EXISTING SYSTEMS

Loaded with industry-standard communications protocols for immediate use with existing networks

- Easily share analysis and alarm results to a programmable logic controller (PLC) thanks to Ethernet/IP and Modbus TCP compliance

- Build distributed single- or multi-camera solutions using standard Ethernet hardware and software protocols

- Comes complete with FLIR IP Config and a FLIR IR Monitor for multi-camera configurations

SUPERIOR IMAGE QUALITY AND SENSITIVITY

FLIR is committed to providing the thermal imagery and measurement accuracy needed to make informed decisions

- Produce crisp, 320 × 240 pixel radiometric images that you can stream over Ethernet or store as JPEGs

- In screening mode measure skin temperatures with an accuracy of ±0.5°C (±0.9°F) at 37°C (98.6°F)

- Automatic motor focus helps to improve temperature measurement accuracy

SPECIFICATIONS

Image & Optical Data	A320 Tempscreen
IR resolution	320 × 240 thermal pixels
Thermal resolution	<0.05°C @ 30°C (86°F) / <50 mK
Lenses	Standard: 25°
Field of view	25° × 18.8° (standard lens)
Minimum focus distance	0.4 m (1.31 ft.)
Focus	Automatic or manual (built-in motor)
F-number	1.3
Image frequency	30 Hz or 9 Hz
Measurement	
Object temperatures	-20°C to 120°C (-4°F to 248°F) 0°C to 350°C (32°F to 662°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Spotmeter	4
Area	4 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Alarms	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Screening	Difference temperature alarm with dynamic updated reference temperature (visualized by the isotherm) ±0.5°C (±0.9°F) accuracy at 37°C (98.6°F) with reference
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification
Setup	
Color palettes	Black/White, Black/White inverted, Ironbow, Rainbow
Set-up commands	Date/time, Temperature (°C/°F)
Image and video storage	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Ethernet	A320 Tempscreen
Ethernet use	Control, result and image
Connector types	RJ-45
Ethernet type & standard	1000 Mbps, IEEE 802.3
Ethernet power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Digital input/output	
Connector type	6-pole jackable screw terminal
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Power system	
Connector type	2-pole jackable screw terminal
External power operation	12/24 VDC, 24 W absolute max.
Voltage	Allowed range 10–30 VDC
General	
Operating temperature range	-15°C to 50°C (5°F to 122°F)
Storage temperature range	-40°C to 70°C (-40°F to 158°F)
Weight	0.7 kg (1.54 lb.)
Camera size (L × W × H)	170 × 70 × 70 mm (6.7 × 2.8 × 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Video, connector type	Standard BNC connector
Base mounting	2 × M4 thread mounting holes (on three sides)

Disclaimer: FLIR devices are intended for use as an adjunct to clinical procedures in the screening of skin surface temperature. Various environmental and methodological factors can impact thermal imaging; therefore, it should not be relied upon as the sole determinant of a person's body temperature. Use of a medical device will be needed to identify elevated body temperature.

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

◆FLIR® | The World's Sixth Sense®