FLIR

HANDHELD FLIR EST™ THERMAL SCREENING SOLUTIONS

FLIR Exx-EST™ SERIES

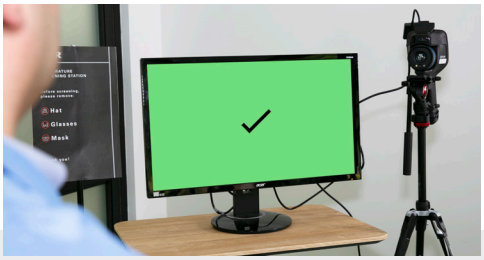
FLIR E54-EST™ and E86-EST™ handheld thermal cameras are non-contact screening tools that serve as a first line of defense against potential health risks. These FLIR EST™ thermal screening solutions detect and visualize heat to quickly identify individuals with an elevated skin temperature. Battery-powered and featuring an integrated touchscreen display, the E54-EST and E86-EST are quick to set up and easy to operate for temporary and mobile screening settings. The built-in FLIR Screen-EST Mode offers Manual, Operator, and Auto settings with features such as visual positioning guides, automatic temperature sampling, and graphic pass/fail indicators to reduce the burden on screening station operators. Compatibility with FLIR Screen-EST™ Desktop software, an integrated tripod mount, and external power makes these cameras a good alternative for permanent installations.

Contagions such as COVID-19, SARS, and other diseases can produce symptoms such as elevated skin temperature—a possible sign of infection. While FLIR cameras are not capable of detecting or diagnosing viruses, these US FDA registered cameras represent a simple, preliminary measure for mitigating further contagion and possible rebound, providing the confidence to return to normalcy.

EASY SET-UP & OPERATION

Begin screening quickly with limited ramp-up time and simple connections

- Streamline initial setup with easy-to-understand, bright touchscreen display
- Operate cable-free with up to 2.5 hours of battery life
- Use hands-free with integrated tripod mount
- Establish a permanent screening station with external power, video connectivity, and FLIR Screen-EST desktop software



FAST, ACCURATE SCREENING

Performance hardware, smart analytics, and reliable calibration optimize the screening process

- Enable rapid decision-making with visual pass/fail graphic indicators and audible alarms in on-camera FLIR Screen-EST Mode
- Ensure accurate, consistent measurements throughout the day with ambient drift compensation
- Automatically update sampling averages in Auto mode or take manual samples safely with the Bluetooth®-enabled remote operation button

MAINTAINS SAFETY & PRIVACY

FLIR screening solutions are non-contact, safe, and effective

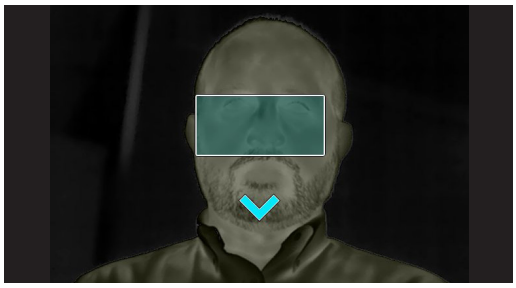
- On-camera FLIR Screen-EST Mode does not store images or personal information
- Thermal imagery displays heat, not identifying facial features
- Thermal temperature measurement does not require personal contact and allows for social distancing in screening setups

SPECIFICATIONS

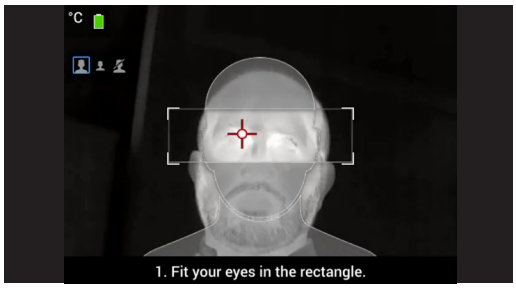
Imaging data	E54-EST	E86-EST
Infrared resolution	320 × 240 pixels	464 x 384 pixels
Thermal resolution/NETD	<40 mK @ 30°C (86°F)	<40 mK @ 30°C (86°F): 24° lens <30 mK @ 30°C (86°F): 42° lens
Frame rate	30 Hz	
Optical data		
Included Lens	Fixed lens, 24° (17 mm)	24° (17 mm) or 42° (10 mm)
Field of view	24° × 18°	24° × 18° or 42° × 32°
Focus	Manual	Continuous laser distance meter (LDM), one-shot LDM, one-shot contrast, manual
Screening mode		
Temperature range	15°C to 45°C (59°F to 113°F)	
Screening accuracy (drift)	±0.3°C (±0.5°F)	
Image presentation		
Video out	DisplayPort over USB Type-C	
Digital data streaming	Simultaneous thermal and visible, USB Type-C	
Command and control	On-camera screen, USB Type-C	
Display	4 in. touchscreen LCD, 640 × 480 pixels	
General		
Operating temperature range	-15°C to 50°C (5°F to 122°F)	
Battery type	Rechargeable Li ion battery	
Power	Rechargeable Li ion battery, >2.5 hrs (typical use)	
External power	AC adapter 90–260 V AC, 50/60 Hz	
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in)	
Weight	1 kg (2.2 lb)	
Tripod mounting	UNC ¼"-20	
Box contents	Infrared camera with lens, battery (2 ea), battery charger, front protection, carabiner hook, straps (hand, wrist), hard transport case, lanyards, lens caps, lens cleaning cloth, power supplies, Torx T10 wrench, screws, cables (USB 2.0 A to USB Type-C, USB Type-C to USB Type-C, USB Type-C to HDMI), USB-C to USB Type-A with power supply included, remote operation button, 8 GB SD card, printed documentation	

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.

On-Camera FLIR EST™ Mode



Auto Mode



Operator Mode

FLIR Screen-EST™ Mode is an on-camera method for simplified measuring elevated skin temperature. This mode can display an alarm when a temperature greater than a user defined threshold is detected against a sampled average value. The average can be updated manually using the remote operation button in Operator mode or automatically with each new screening in Auto mode. If the screening mode detects an individual with elevated skin temperature, they can then be evaluated using a medical device such as a thermometer. In this way, FLIR Screen-EST Mode provides a faster, safer, and more reliable method for conducting elevated skin temperature screening.

FLIR EST™ Desktop Software

FLIR Screen-EST™ Desktop is a computer screening software for FLIR T-Series, Exx-Series, and Axxx-Series thermal imaging cameras. The software deploys automatic measurement tools, like face detection and automatic average sampling, that shorten screening times of individuals to two seconds. Fast screening performance make FLIR Screen-EST Desktop the preferred solution for screening application at entries, checkpoints, and other high-traffic areas while maintaining recommended social distancing guidelines.

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FLIR® | The World's Sixth Sense®