INTELLIGENT FIXED-MOUNT SKIN TEMPERATURE SCREENING

FLIR ELARA™ FR-345-EST

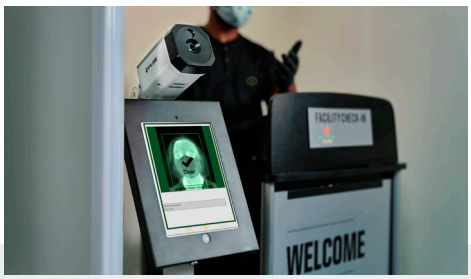
The FLIR Elara FR-345-EST is an affordable, fixed-mount radiometric camera for accurately measuring skin temperature* at medium- to high-throughput entry control points. Equipped with on-edge, intelligent face detection, Elara FR-345-EST issues on-screen prompts to individuals when they need to remove glasses, while also guiding them to the correct position for best measurement. The non-contact camera automatically locates and measures the inner canthus (corner of the eye) within one second and provides an instant pass/fail graphic to the individual. Integration with VMS systems further streamlines workflow and decision-making for facilities, while helping security personnel maintain a safe distance from potential health risks. Elara FR-345-EST does not require or save personally identifiable information (PII) for skin temperature screening.

www.flir.com/FR-345-EST

FAST, AUTOMATED, AND ACCURATE SKIN TEMPERATURE SCREENING

Precise radiometric thermal camera automatically locates and measures the temperature of the inner canthus (corner of the eye)

- Non-contact temperature measurement accurate within ±0.5°C (±0.9°F)
- Fast one-second screen time after individual is correctly positioned, delivering high-throughput screening
- On-camera automatic canthus measurement with visual pass/fail confirmation
- Interactive display guides the user to proper distance and head pose for accurate inner canthus measurement



FLEXIBLE VMS AND ACCESS CONTROL INTEGRATIONS

Seamless user experience through major VMS platforms simplifies installation, speeds workflow, and promotes faster decision-making

- Fully integrated setup, and operation available with FLIR United VMS
- Compatible with third party VMS
- Digital I/O support for access control integration
- Portrait and landscape modes available for installation flexibility

INTELLIGENCE AT THE EDGE

On-camera algorithms provide rapid, reliable, and actionable screening results

- On-board CNN-based analytics
- Adaptive alarm threshold helps minimize false alarms
- Automatic calibration and self-screen operation provide instant pass/fail feedback
- Automatic face, mask, and eye-wear detection

SPECIFICATIONS

Thermal Sensor & Optics	
Array Format (NTSC)	320 × 256
Detector Type	Long-Life, Uncooled VOx Microbolometer
Pixel Pitch	17 µm
Thermal Frame Rate	20 Hz
FOV	45° × 34°
F/#	1.5
Spectral Range	7.5 µm to 13.5 µm
Accuracy [Drift] in Screening Mode	±0.5°C (±0.9°F)
Object Temperature Range	15°C to 45°C (59°F to 113°F); camera provides contrast from -20°C to 120°C (-4°F to 248°F) but will not provide temperature information
Screening Mode Subject Distance	1m ± 0.2m

Visible Light Camera	
Sensor Type	1920 × 1080
Lens FOV	HFOV = 75° VFOV = 44°
Focal Length	4 mm
F/#	1.6
Sensitivity	0.05 Lux (@ f1.6 AGC ON, 30FPS)

Video	
Video Compression	Two independent channels of H.264 or M-JPEG for visible One channel of H.264 or M-JPEG for thermal
Streaming Resolution	Thermal: upscaled to VGA (640 × 480) Visible: 1080p (1920 × 1080), 720p (1280 × 720), VGA (640 × 480)

System Integration	
Ethernet	10/100 Mbps
Network APIs	FLIR SDK FLIR CGI ONVIF Profile S
Digital I/O	Input: one dry alarm contact Output: one photo relay contact 1A max at 24 VAC/30 VDC

Network	
Supported Protocols	IPV4, HTTP, HTTPS, UPnP, DNS, NTP, RTSP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP, IEEE 802.1X

General	
Input Voltage	12-30 VDC (±10%) 24 VAC (21-28 VAC) 802.3at (PoE+)
Power Consumption	17 W

Environmental	
IP Rating (Dust & Water Ingress)	IP54
Operating Temperature Range	15°C to 45°C
Storage Temperature Range	-40°C to 70°C
Humidity	0-95% relative
Vandalism	IK10

Compliance & Certifications

FCC Part 15 (Subpart B, class A)
CE Marked
RoHS
WEEE
ONVIF Profile S

Video Analytics

Canthus detection and temperature measurement
Face detection
Mask detection
Glasses detection
Subject pose and distance detection

Cyber Security

IEEE 802.1x
TLS Authentication - control & streaming
Digest authentication
HTTPS encryption
Encrypted FW upload
Access control via firewall

*DISCLAIMER: Contagions such as COVID-19, SARS, and other diseases can produce symptoms like elevated skin temperature—a possible sign of infection. While this FLIR camera is not capable of detecting or diagnosing viruses, it represent a simple, preliminary measure for mitigating further contagion and possible rebound, providing the confidence to return to normalcy. 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

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