

## P/N: 85903-0201

### Copyright

© 2020, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 85903-0201

Commit: 72373

Language:

Modified: 2020-12-03

Formatted: 2020-12-03

### Website

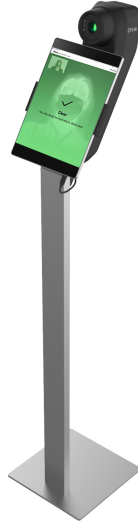
<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



General	
<p>The FLIR EST Kiosk offers a quick and easy way to screen passengers, customers, or employees for signs of elevated skin temperature. This is a turnkey solution that combines the temperature measurement capabilities of a FLIR EST Thermal camera and the FLIR Screen-EST software with a tablet and a floor stand.</p> <p>The FLIR EST Kiosk uses the thermal data stream for face detection and measures the temperature in the inner canthus of the eye automatically, since that has been demonstrated to be a robust measurement point. The system uses FLIR relative temperature screening - comparing subject temperatures to a dynamic average baseline of non-elevated skin temperatures.</p> <p><b>Key benefits:</b></p> <ul style="list-style-type: none"> <li>• Fast setup and simple operation.</li> <li>• Fully automated, self-service station.</li> <li>• Safe, accurate screening.</li> </ul> <p><b>Key features include:</b></p> <ul style="list-style-type: none"> <li>• Inner canthus detection for quick and effective measurement.</li> <li>• Digital I/O and webhooks functionality for integration with existing systems.</li> <li>• Calibrated to measure from 25°C to 40°C (77°F to 104°F).</li> <li>• IR and visible image.</li> <li>• 640 x 480 resolution detector.</li> <li>• 24° lens as standard.</li> </ul>	

Imaging and optical data	
Infrared resolution	640 x 480 pixels
Thermal sensitivity (NETD)	<40 mK, 24° @ +30°C (+86°F)
Field of view (FOV)	24° x 18°
Minimum focus distance	0.15 m (0.49 ft)
Focal length	17 mm (0.67 in)
Spatial resolution (IFOV)	0.66 mrad/pixel
Lens identification	Automatic
f-number	1.3
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> <li>• One-shot contrast</li> <li>• Motorized</li> <li>• Manual</li> </ul>



# FLIR EST Kiosk Pro 24° (640x480)

P/N: 85903-0201

© 2020, FLIR Systems, Inc.

#85903-0201; r. 72373;

<b>Detector data</b>	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	12 μm
<b>Measurement</b>	
Camera temperature range	15 to 45°C (59 to 113°F) Accuracy ±0.3°C (±0.5°F) when used with EST screening software
<b>Configuration of camera</b>	
Web interface	Yes
<b>Video streaming</b>	
Image quality	Bit rate set through Camera web
<b>Video streaming, Image source 0:</b>	
Resolution (source 0)	640 × 480 pixels
Contrast enhancement	FSX / Histogram equalization (IR only)
Overlay (source 0)	With / Without
Image source (source 0)	Visual / IR / MSX
Pixel format (source 0)	YUV411
Encoding (source 0)	H.264 / MPEG4 / MJPEG
<b>Video streaming, Image source 1:</b>	
Resolution (source 1)	1280 × 960 pixels
Overlay (source 1)	No
Image source (source 1)	Visual
Pixel format (source 1)	YUV411
Encoding (source 1)	H.264 / MPEG4 / MJPEG
<b>Radiometric streaming</b>	
Resolution (radiometric)	640 × 480 pixels
Source	IR
Pixel format (radiometric)	MONO 16
Encoding (radiometric)	<ul style="list-style-type: none"> <li>Compressed JPEG-LS</li> <li>FLIR Radiometric</li> </ul>
<b>Ethernet</b>	
Interface	<ul style="list-style-type: none"> <li>Wired</li> <li>Wi-Fi</li> </ul>
Connector type	<ul style="list-style-type: none"> <li>M12 8-pin X-coded, Female</li> <li>RP-SMA, Female</li> </ul>
Ethernet, purpose	Control, result, image, and power
Ethernet, type	1000 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, communication	TCP/IP socket-based FLIR proprietary



## FLIR EST Kiosk Pro 24° (640x480)

P/N: 85903-0201

© 2020, FLIR Systems, Inc.

#85903-0201; r. 72373;

<b>Digital Input/output</b>	
Connector type	M12 12-pin A-coded, Male (shared with external power)
Digital output	<ul style="list-style-type: none"><li>• 3x opto-isolated, 0–30 V DC, max. 300 mA (derated to 200 mA at 60C)</li><li>• Solid state opto relay</li><li>• 1x dedicated as Fault output (NC)</li></ul>
Digital output, purpose	As function of alarm, output to external device, for example when the screening alarm is triggered.
Digital I/O, isolation voltage	500 VRMS
<b>Camera power system</b>	
Connector type	M12 12-pin A-coded, Male (shared with Digital I/O)
Power consumption	<ul style="list-style-type: none"><li>• 7.5 W at 24 V DC typical</li><li>• 7.8 W at 48 V DC typical</li><li>• 8.1 W at 48 V PoE typical</li></ul>
External power operation	24/48 V DC 8 W max
External voltage	Allowed range 18–56 V DC
<b>Wi-Fi (Option)</b>	
Connector type	RP-SMA, Female
Standard	IEEE802.11a/b/g/n
Antenna	Dipole antenna 2.4/5 GHz (gain: maximum 2 dBi)
Connection type	Peer to peer (ad hoc) or infrastructure (network)
<b>Physical data</b>	
Camera unit: Size (L × W × H)	460 × 110 × 180 mm (18 × 4.3 × 7.1 in.)
Camera unit: Weight	2.5 kg (5.5 lb.)
FLIR EST Kiosk: Size (L × W × H)	360 × 270 × 1300 mm (14 × 11 × 51.2 in.)
FLIR EST Kiosk: Weight	8.3 kg (18 lb.)
<b>Warranty and service</b>	
Warranty	<a href="http://www.flir.com/warranty/">http://www.flir.com/warranty/</a>
<b>Shipping information</b>	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none"><li>• Camera unit</li><li>• Surface Pro7 tablet</li><li>• Tablet stand</li><li>• Mains cables (Europe, UK, US)</li><li>• Screening position floor sticker</li><li>• FLIR Screen-EST license card</li><li>• Printed documentation</li></ul>
Packaging, weight	14 kg (31 lb)
Packaging, size	1170 × 680 × 150 mm (46.1 × 27 × 5.9 in.)
EAN-13	7332558027592
UPC-12	845188023645
Country of origin	Sweden

### Supplies & accessories:

- T131177; Roll-up, Backdrop for screening



## FLIR EST Kiosk Pro 24° (640x480)

---

**P/N: 85903-0201**

© 2020, FLIR Systems, Inc.

#85903-0201; r. 72373;

- T131178; Floor sticker, Direction arrow (5 pcs)
- T131179; Floor sticker, Queue markers (5 pcs)
- T131181; Floor sticker, Position for screening