

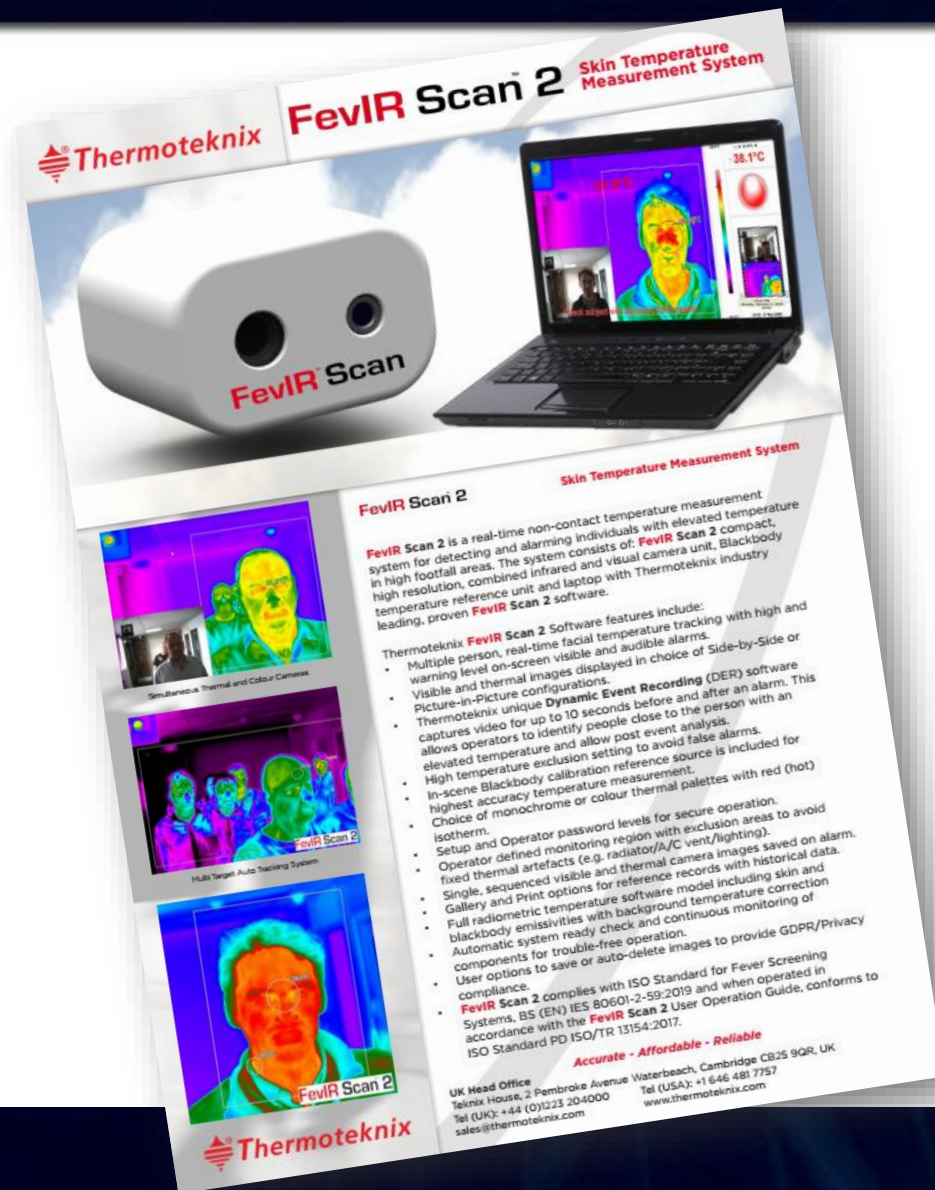
FevIR Scan 2

Skin Temperature Monitoring System

Set-up and Installation



Teknix House | Cambridge | UK



Thermoteknix FevIR Scan 2 Skin Temperature Measurement System

FevIR Scan 2 is a real-time non-contact temperature measurement system for detecting and alarming individuals with elevated temperature in high footfall areas. The system consists of: **FevIR Scan 2** compact, high resolution, combined infrared and visual camera unit, Blackbody temperature reference unit and laptop with Thermoteknix industry leading, proven **FevIR Scan 2** software.

Thermoteknix **FevIR Scan 2** Software features include:

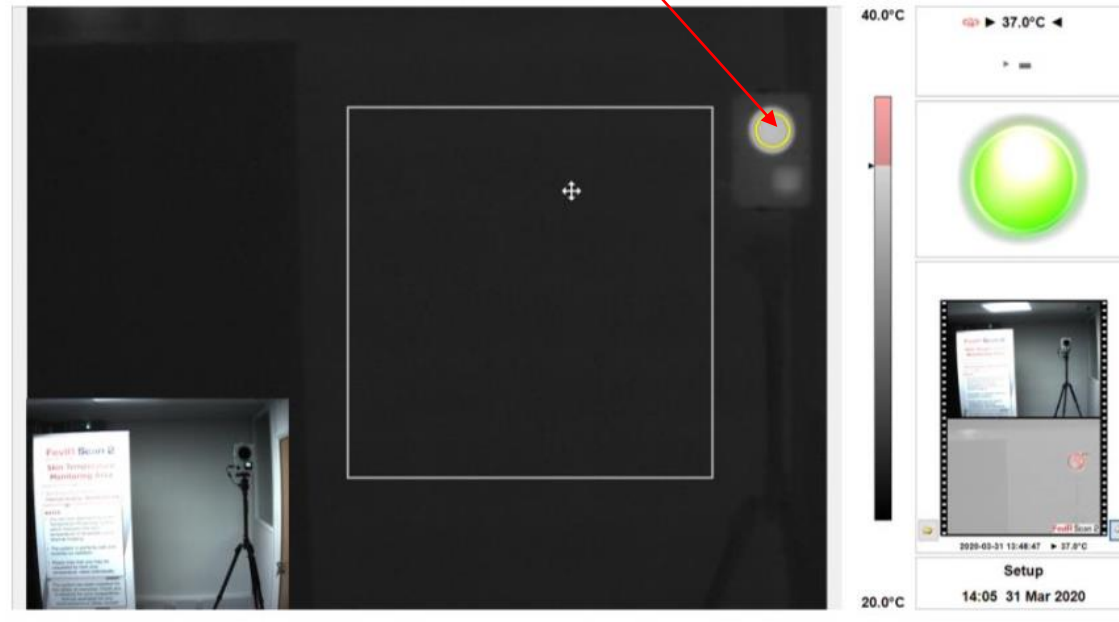
- Multiple person, real-time facial temperature tracking with high and warning level on-screen visible and audible alarms.
- Visible and thermal images displayed in choice of Side-by-Side or Picture-in-Picture configurations.
- Thermoteknix unique **Dynamic Event Recording (DER)** software captures video for up to 10 seconds before and after an alarm. This allows operators to identify people close to the person with an elevated temperature and allow post event analysis.
- High temperature exclusion setting to avoid false alarms.
- In-scene Blackbody calibration reference source is included for highest accuracy temperature measurement.
- Choice of monochrome or colour thermal palettes with red (hot) isotherm.
- Setup and Operator password levels for secure operation.
- Operator defined monitoring region with exclusion areas to avoid fixed thermal artefacts (e.g. radiator/A/C vent/lighting).
- Single, sequenced visible and thermal camera images saved on alarm.
- Gallery and Print options for reference records with historical data.
- Full radiometric temperature software model including skin and blackbody emissivities with background temperature correction
- Automatic system ready check and continuous monitoring of components for trouble-free operation.
- User options to save or auto-delete images to provide GDPR/Privacy compliance.
- **FevIR Scan 2** complies with ISO Standard for Fever Screening Systems, BS (EN) IES 80601-2-59:2019 and when operated in accordance with the **FevIR Scan 2** User Operation Guide, conforms to ISO Standard PD ISO/TR 13154:2017.

Accurate - Affordable - Reliable

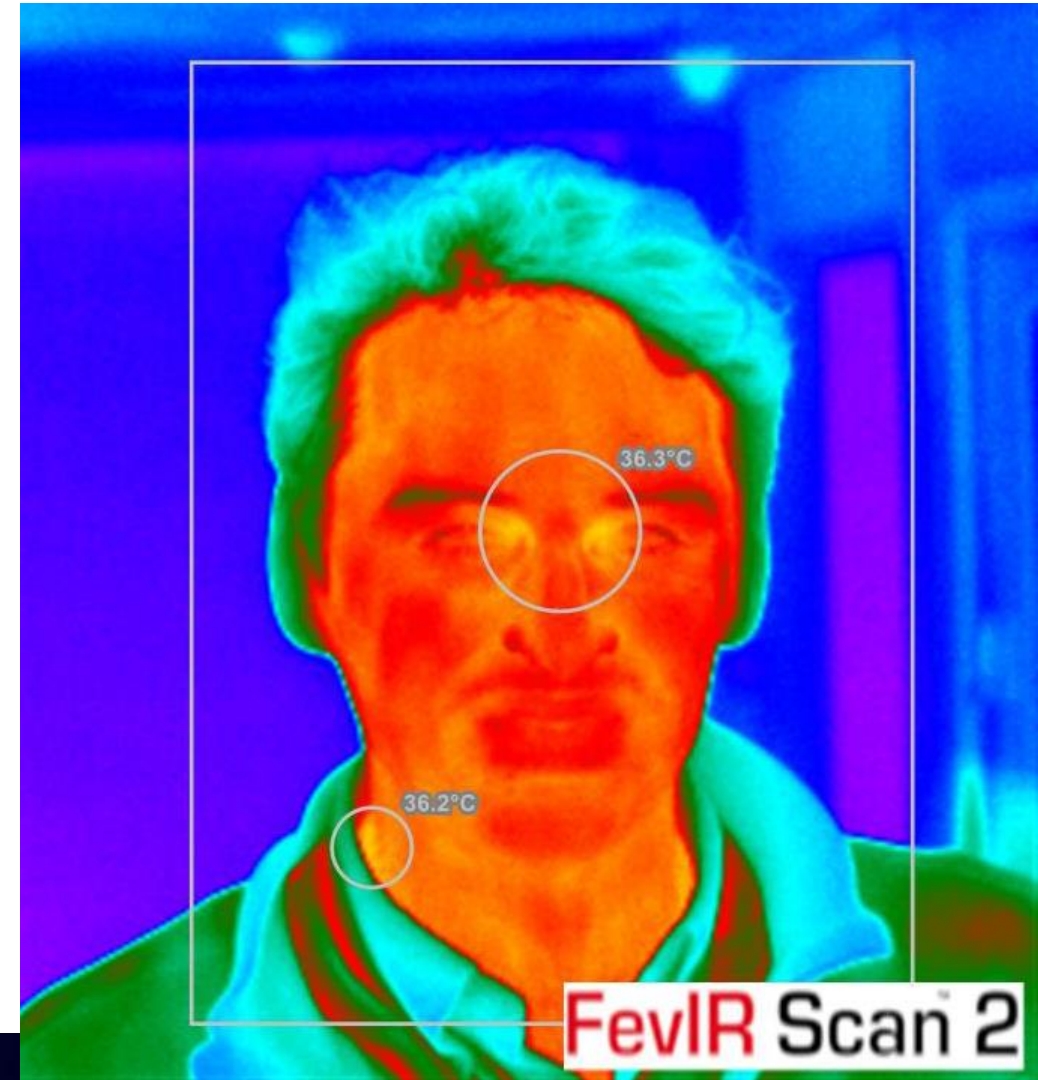
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- Provide an overview of FevIR Scan 2 system
- Theory of operation
- Guidance on installation and setup
- Opportunity to ask questions

- Non-Contact thermal imaging
- Skin Temperature measurement
- Typical Handheld Thermal imagers accurate to $\pm 2^{\circ}\text{C}$ not sufficient for detecting febrile skin temperatures
- Inclusion of a calibration source (blackbody) in the field of view at all times.



- Mass screening solution
- Measures skin surface temperature NOT core temperature
- Does not diagnose CoVid 19
- Measuring Inner corner of the eye
- In the event of alarm trigger, subject must be checked using a medical thermometer



ISO Standard & Regulatory Compliance



- Compliant with internationally recognised standard (ISO)
BS (EN) IEC 80601-2-59:2019

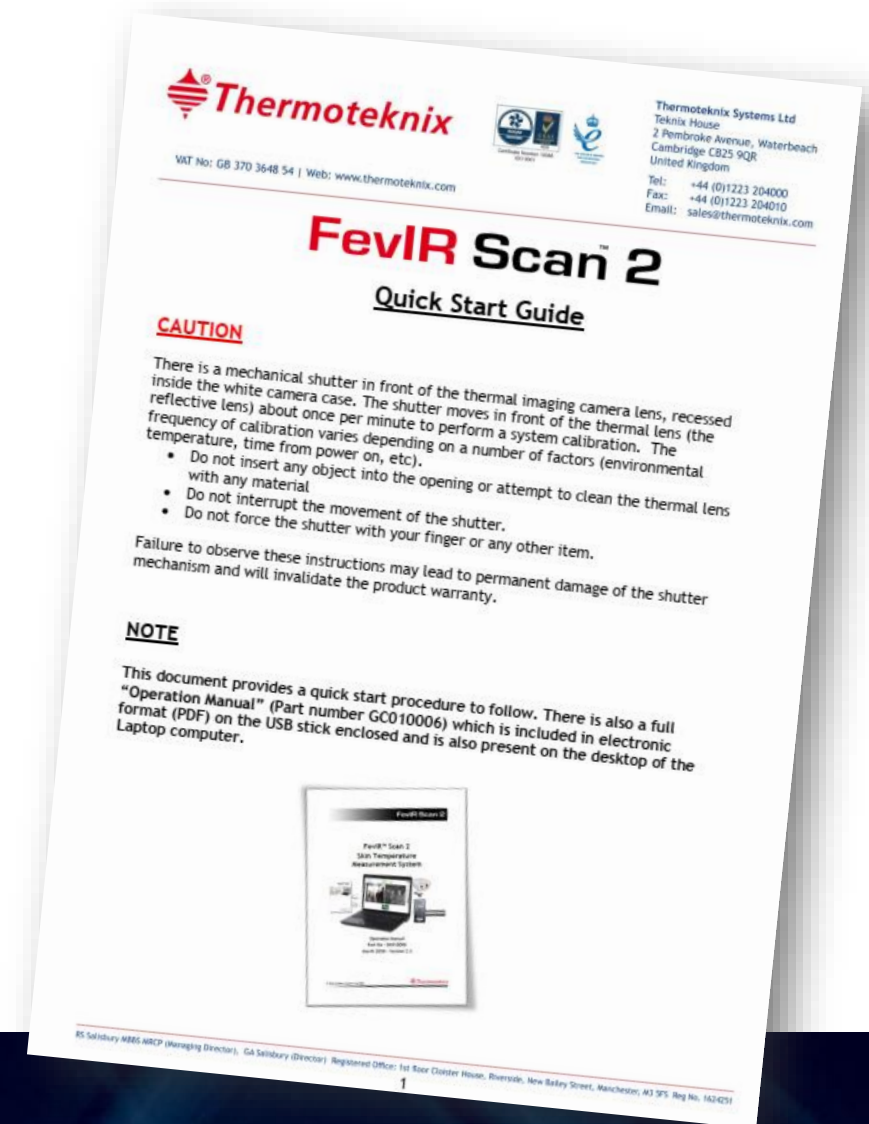
“Safety an essential performance of screening thermographs for human febrile temperature screening.”

Specifies accuracy, stability, drift, sensitivity and spatial resolution of the system

- CE marked
- FCC certification

Getting started

- You should have a paper copy of the Thermoteknix Quick Start Guide
- 13 Pages covers setup
- Many customers have been able to get systems up and running from this document without contacting Thermoteknix
- Three components:
 - FevIR Scan camera FSD01
 - Calibration temperature reference ThermaRef 35B1
 - Laptop computer



Laptop computer with
FevIR Scan 2 software

Ethernet

USB

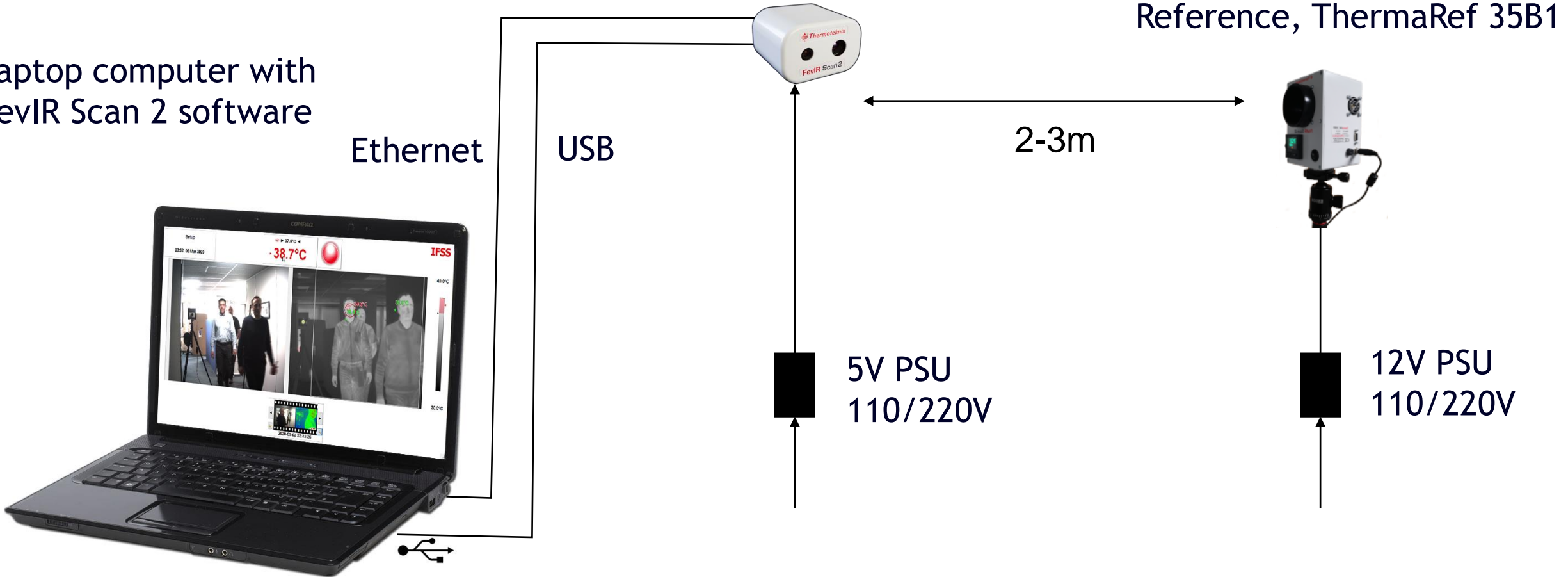
FevIR Cam FSD01

Temperature Calibration
Reference, ThermaRef 35B1

2-3m

5V PSU
110/220V

12V PSU
110/220V





- The standard calls for:
- *“The equipment must be set up for subject inspection in a temperature controlled indoor environment. The location should be free from draughts, heater or air conditioning ducts, and away from doorways. An environmental temperature between 20°C and 24°C (68°F to 75°F) and Relative Humidity between 10% and 50% should be maintained. “*





The system is designed for use inside a building between 15 to 25°C (59 to 77°F) for two reasons:

1. People will be affected by the environment (heated by sun, cooled by rain) and as a result you cannot get the stability of measurement in an outside location
2. The calibration reference blackbody unit and the thermal imaging camera sensor will both be affected by temperature variations or drafts again losing stability of the system

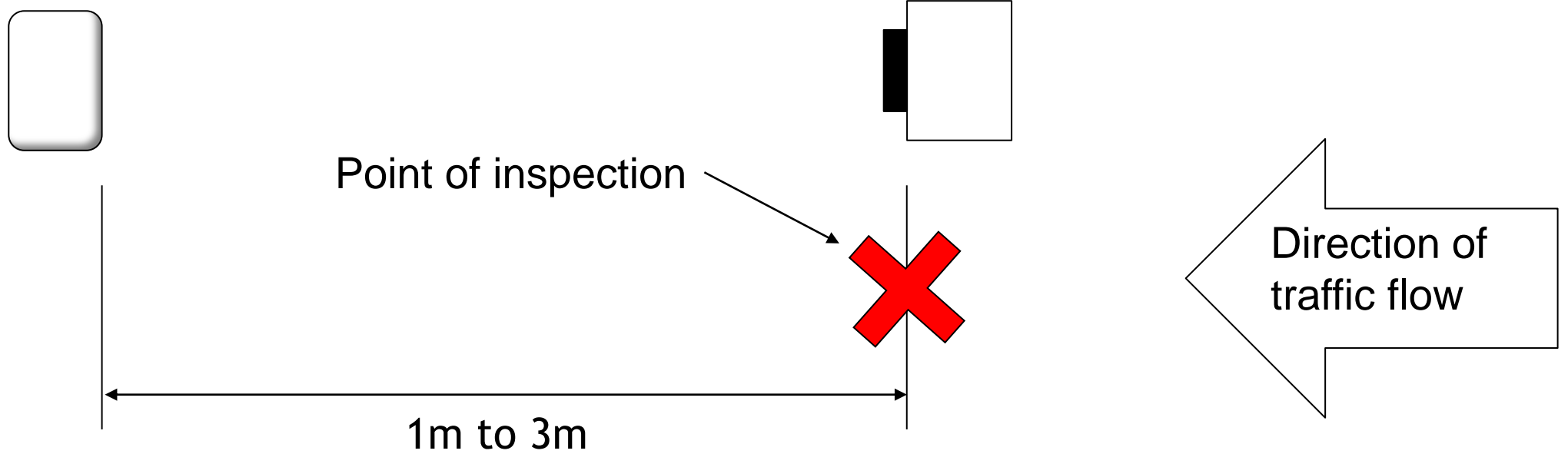
Where the outside is particularly hot or cold you may need staff to acclimatize to the indoor environment

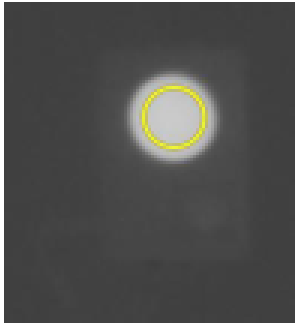
The internationally recognized ISO standard for mass screening confirms this



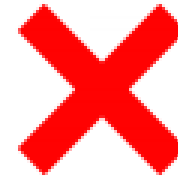
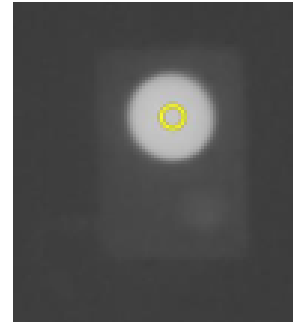
FevIR Cam FSD01

ThermaRef 35B1

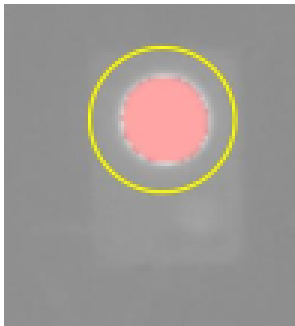




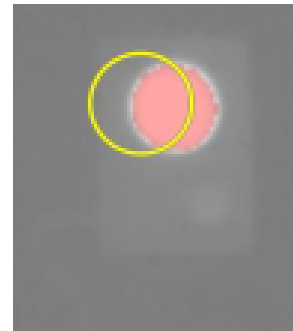
Yellow circle correctly sized and positioned



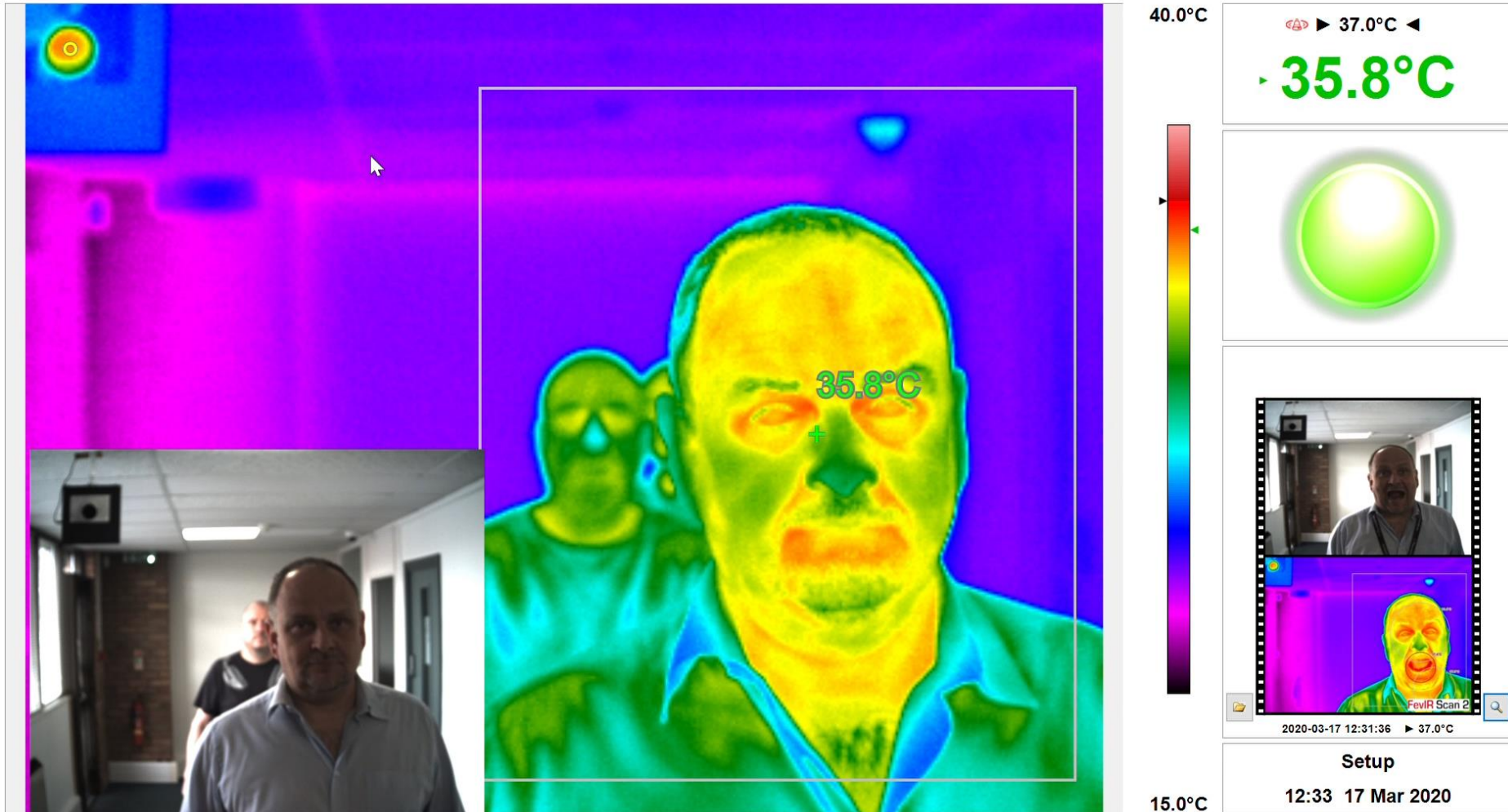
Yellow circle too small



Yellow circle too big



Yellow circle not aligned and too big



Setup

13:49 28 Feb 2020

▶ 37.0°C ◀

▶ **38.2°C**



FevIR Scan 2



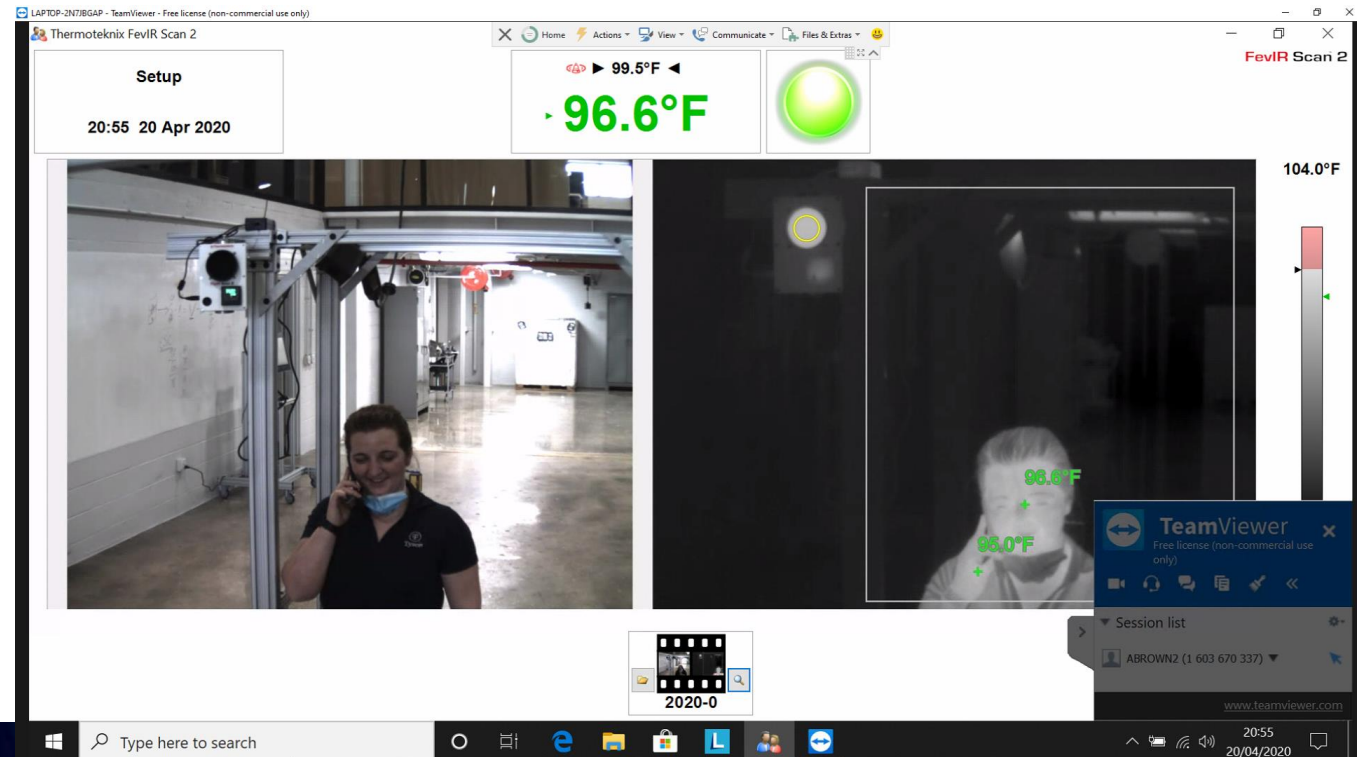
40.0°C



20.0°C



- RTFM: Full documentation included on desktop
- Contact Support support@Thermoteknix.com
- Connect to local network (WiFi)
- Install TeamViewer
- Admin Password= TTX-Admin



- Through-life maintenance & support packages available with all products
- Full-time service and technical support desk
- Ticket based system
- Support via phone, video conferencing, email or offer remote support and connection via online “TeamViewer”
- Support@Thermoteknix.com
Monitored during working hours and holiday periods





Thank you