

FebriScan

High Precision Detection of Elevated Body Temperature

Detection of Elevated Body Temperature

Why is it important?

- One of the symptoms caused by virus diseases such as the COVID-19 is the elevated body temperature
- Detection of elevated body temperature can be used to screen people with the aim to prevent the fast spreading of the disease amongst a group of people e.g. travellers at the airport or employees in a government building or private company

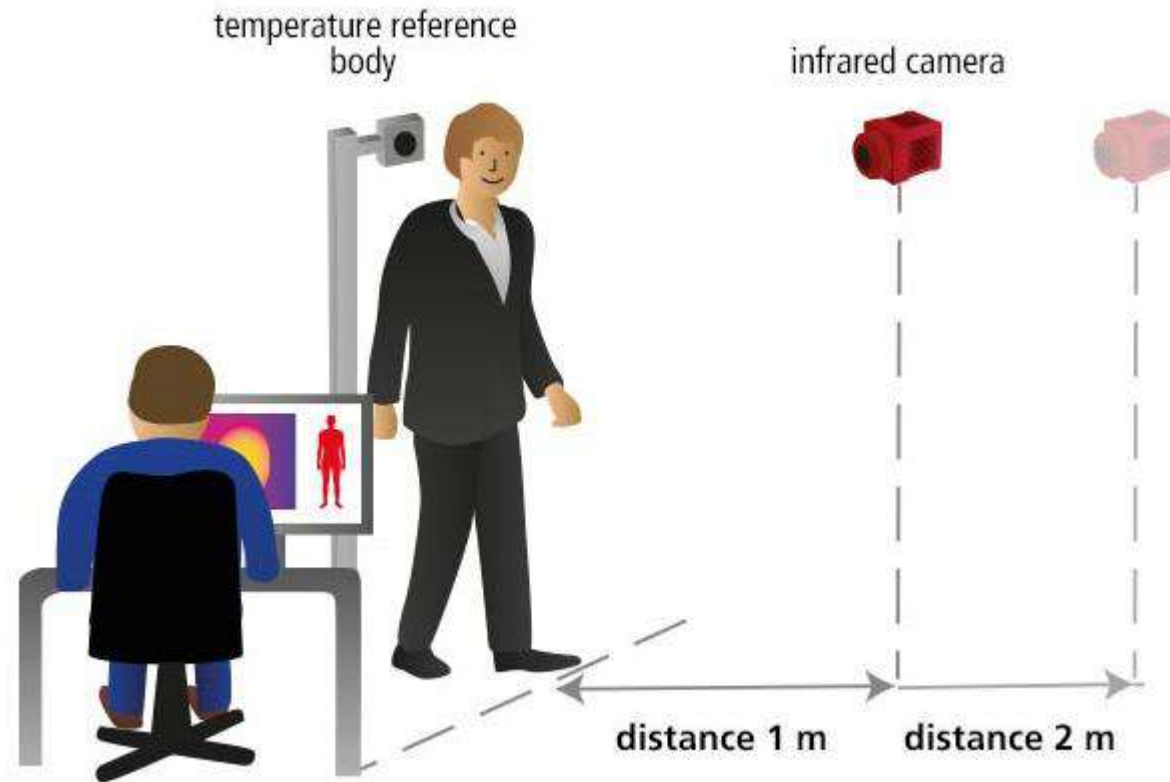
Detection of Elevated Body Temperature

Common Approaches and their Disadvantages

- Common systems available in the market today measure the skin temperature of the human face
- The facial skin temperature is affected by a wide range of environmental and physiological factors
- An elevated facial temperature does not precisely correlate to the core temperature of the human body
- Measurement of facial temperature is performed without the use of a reference temperature target and for this reason it is inaccurate

The solution of AT: FebriScan

High Precision Detection of Elevated Body Temperature



FebriScan

Advantages / Unique Selling Points

- High precision detection of elevated body temperature according to the standard IEC / DIN EN 80601-2-59:2017
- Recording of the body temperature on the inner corner of the upper and lower eye lids (canthi)
- High precision temperature reference (blackbody) with accuracy $\pm 0.1^{\circ}\text{C}$
- Fast measuring process and evaluation (< 1 second)
- 2 different camera subject distances (1m and 2m)
- Applicable independent of location: e.g. companies, authorities, railway stations, airports, etc.
- Easy installation

FebriScan

Key Features

- Smart IR camera cutting edge technology with resolution 336x256 or 640x512 pixels
- Automatic measurement adjustment by means of high precision temperature reference (**blackbody**).
- Integrated fully automatic self-test functions for highest reliability of temperature measurement
- 3 versions allowing easy adaptation to local installation conditions
- Intuitive graphical interface
- 24/7 continuous operation

FebriScan

Available Packages

Portal	Mobile	Integration
<p>All-In-One solution for fixed installations at one location</p> <ul style="list-style-type: none">• Smart camera IRSX-I with high precision blackbody and FebriScan App• Portal with holders, brackets and user display• Operator monitor with embedded PC• Sticker/Signs	<p>Flexible setup with tripods for temporary screenings</p> <ul style="list-style-type: none">• Smart camera IRSX-I with high precision blackbody and FebriScan App• Tripods for camera and blackbody• Operator monitor with embedded PC• Transportation cases• Sticker/Signs <p><u>Optional</u></p> <ul style="list-style-type: none">• User display• Carry bags	<p>Bundle for customer specific integration</p> <ul style="list-style-type: none">• Smart camera IRSX-I with high precision blackbody and FebriScan App• Camera IO-Kit <p><u>Optional</u></p> <ul style="list-style-type: none">• Sticker/Signs

FebriScan

Portal Package



Operator Monitor with
FebriScan App Visualisation

High Precision Blackbody

Portal

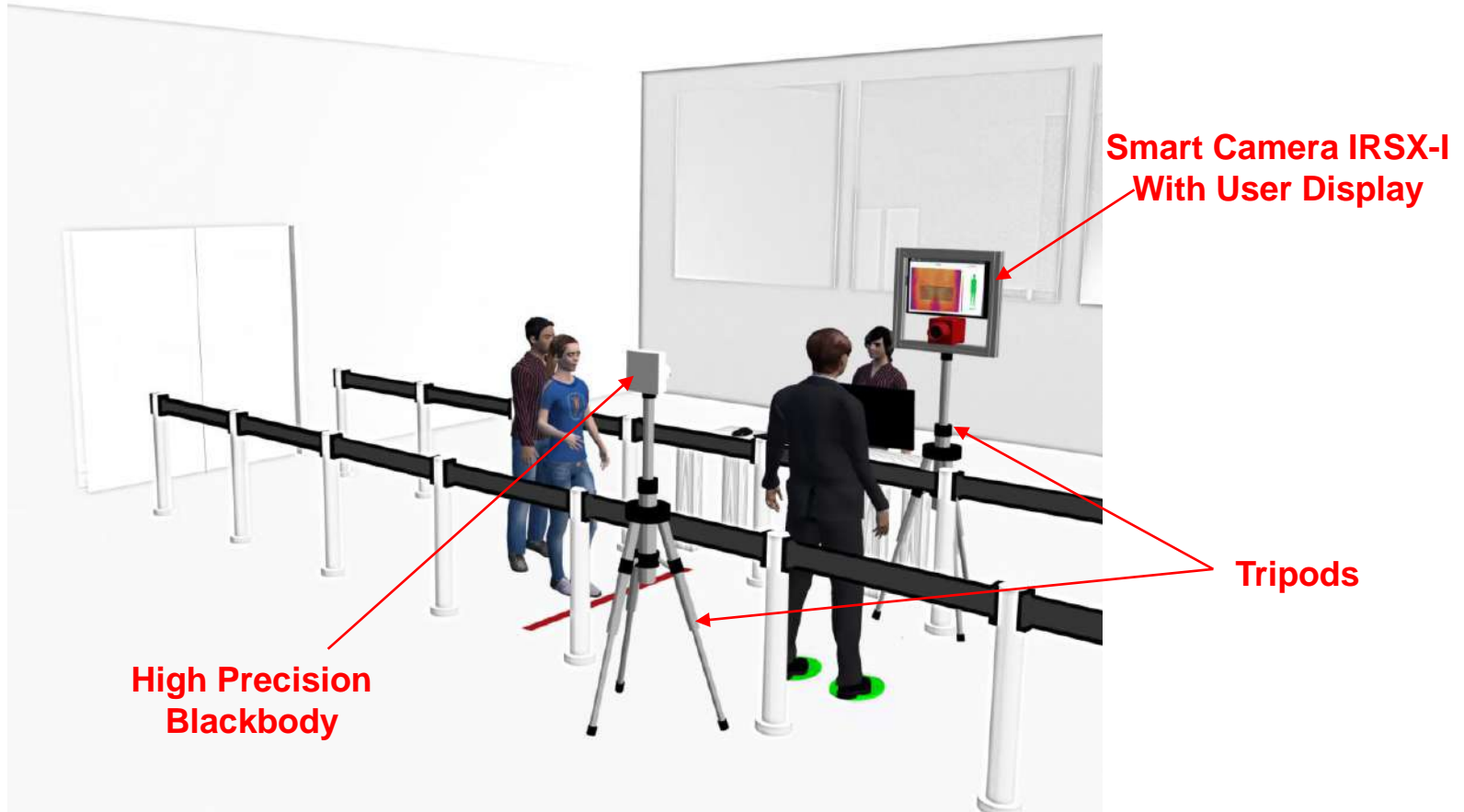
User Display

Smart Camera IRSX-I



FebriScan

Mobile Package



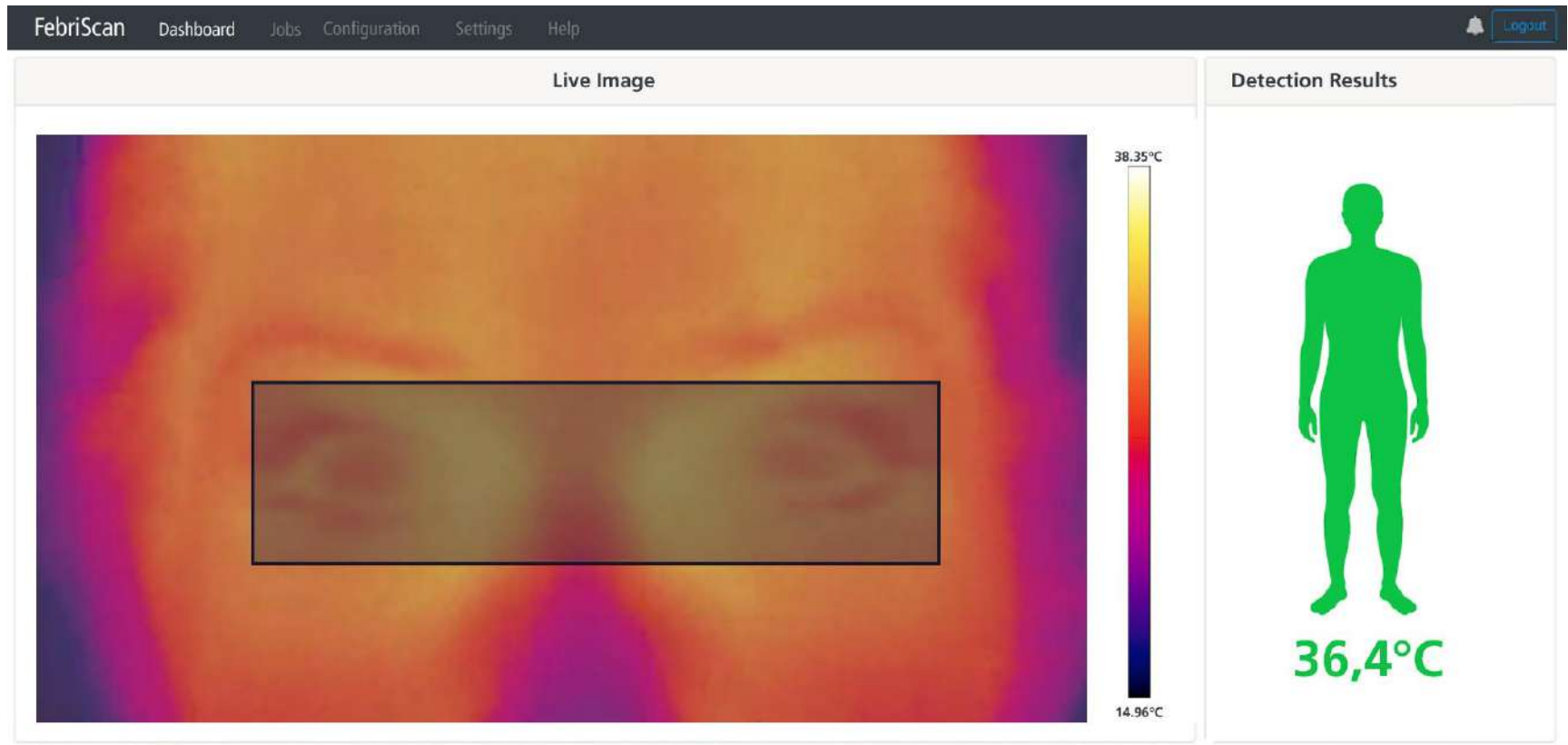
FebriScan

Integration Package



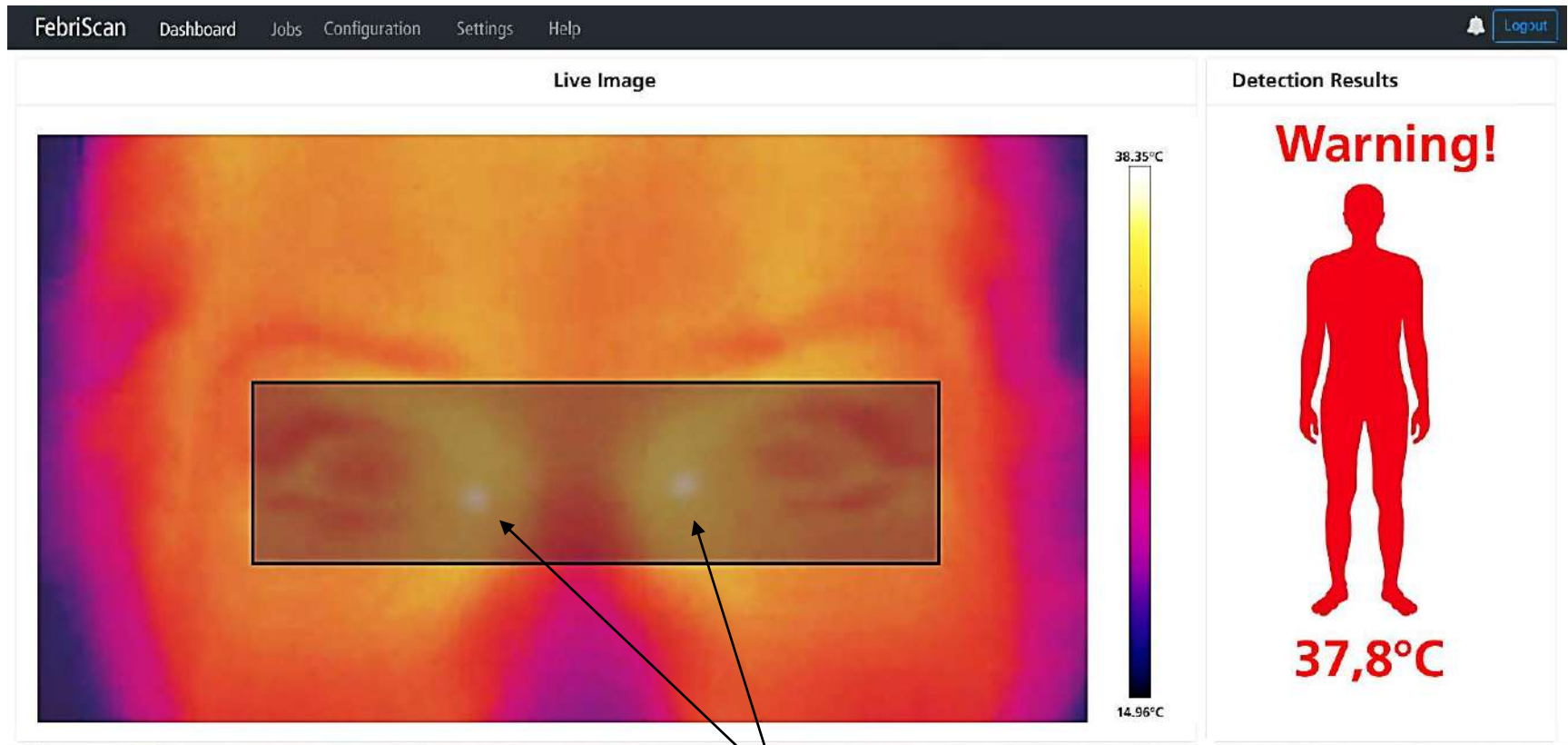
FebriScan

FebriScan App



FebriScan

FebriScan App



Hot spots detected at the canthi

FebriScan

Customer Specific Visualization and I/O

- Embedding data in application-specific website via camera's **REST-API**
- Embedding data using camera's **Modbus TCP client**
- Controlling I/Os with camera's **Modbus TCP master**
- Embedding data using **MQTT** or **OPC-UA** (available soon...)



FebriScan

Summary

- State of the art high precision system for detection of elevated body temperature according to standard IEC / DIN EN 80601-2-59:2017
- Accurate temperature measurement by means of high precision blackbody ($\pm 0.1^{\circ}\text{C}$)
- 3 different packages cover all possible installation requirements
- Intuitive app for easy operation
- High screening efficiency



FebriScan

High Precision Elevated Body Temperature Detection

Copyright:

AT – Automation Technology GmbH

Phone: +49 (0)4531 88011-0

Fax: +49 (0)4531 88011-20

Hermann-Bössow-Str. 6–8

23843 Bad Oldesloe

Germany

Email: info@automationtechnology.de

Web: www.automationtechnology.de