

Bad Oldesloe, March 27th, 2020

Automation Technology develops measure for corona prevention

- - **Reliable test system for the detection of possible infected people**
- - **Quick fever measurement by "FebriScan" with high precision**
- - **FeverScreening App determines information about health status within milliseconds**
- - **Uncomplicated tool for use in any company and in public places**

Bad Oldesloe. The concern about getting infected with Corona is currently present worldwide - not only in private life, but also in professional life and in public spaces. The virus has become a major challenge for numerous German companies and public authorities. Every employer wants to protect his employees as best as possible and therefore take effective preventive measures in this context. The North German company Automation Technology, AT for short, has recently developed an innovative solution for the prevention of possible corona infected people - the so-called "FebriScan".

This is an access control system specially programmed by AT that is based on the interaction of an intelligent infrared camera from the IRSX-I series, a high-precision temperature reference body (blackbody) and a specially developed app for measuring body temperature. The special features of this tool: the fast measuring process, the high accuracy of the measurement as well as the uncomplicated setup. The installation of the three elements is very flexible and can be adapted and configured for different access areas. The FebriScan can be used either stationary in the entrance area of every company or mobile in public places such as railway stations, airports or public authorities.

If the access control is ready for use, the camera together with the blackbody measures within milliseconds whether the person has fever or whether this symptom typical for corona can be excluded. The temperature image is evaluated using the FeverScreening App developed by AT and the result is displayed on the screen as a numerical value and in the form of a red-green display. In this case, red stands for increased temperature or fever, while green indicates a harmless state of health.

"It was important for us to offer a tool that not only works quickly but also reliably and can be used in a flexible manner. The Blackbody is immensely important for access control, as its reference value ensures that a highly accurate result is always obtained under all conditions. Therefore our FebriScan can be used everywhere and is also manageable in terms of costs", says AT CEO Michael Wandelt.

Automation Technology is one of the global market leaders in the development of sustainable solutions for special imaging sensors. Founded in 1998, the North German company focuses on the production of smart infrared cameras, 3D sensors and sensor solutions, attracting a great deal of attention across all industries. With its expertise, based on more than 20 years of application experience and a global network of reliable sales partners, Automation Technology is able to respond individually to every request, as is now the case with corona prevention.

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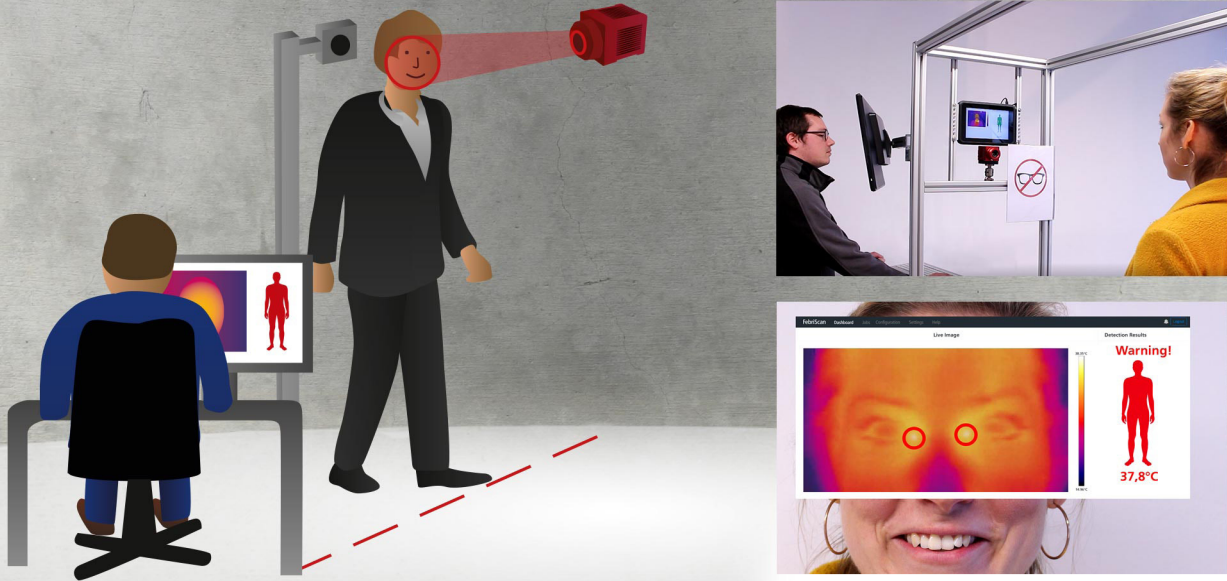
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FebriScan

COVID-19: Fever control



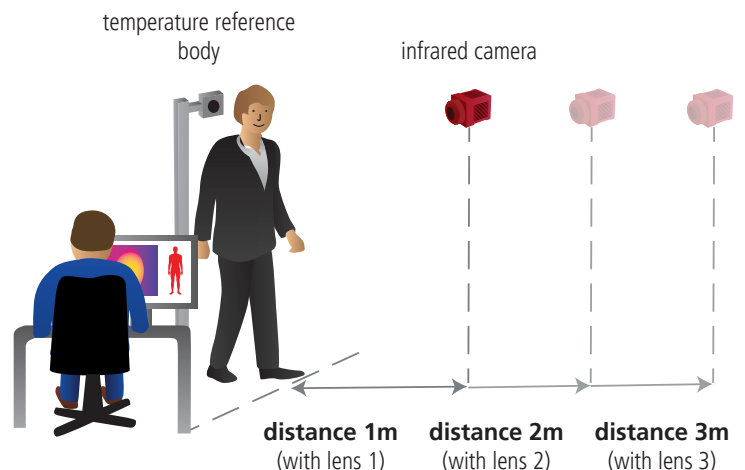
FebriScan is an innovative solution for the detection of possible corona virus infected persons, which is based on a high-precision temperature image evaluation. It is a quick to set up access monitoring system with a non-contact fever measurement method, which can be installed either temporarily in public places or stationary in the entrance area of a company. FebriScan consists of three components: an intelligent infrared camera, a temperature reference body and a specially developed FeverScreening App. In their interplay, these components enable the body temperature to be recorded with the highest accuracy. To guarantee the reliability of the temperature display, the FebriScan has numerous integrated fully automatic self-test functions. Further advantages: uncomplicated installation, fast measuring process, location-independent use. The graphical representation of the result appears on the screen as a red-green display. In this case, red stands for increased temperature or fever, green indicates an inconspicuous measurement.

This is how the test works:

The detection with FebriScan complies with the IEC 80601-2-59:2017 standard. In the process the infrared camera captures the face of the person. The special advantage: the temperature is measured at the most heat-intensive point on the face - namely the inner eyelid angle of the eye, which shows the actual body temperature. In combination with the high-precision temperature reference, our FeverScreening App then verifies the detection result. Only in this way is it possible to make a precise statement about body temperature. Important: In order for the camera to capture the relevant area, glasses must not be worn during the measurement.

3 variants for different installation conditions:

The configuration of the FebriScan depends on the distance between the face and the infrared camera, which - depending on the installation circumstances - can be adjusted individually. Depending on the distance specification, the lens of the camera is selected accordingly, whereas the monitor and the temperature reference body are constant elements in the COVID-19 fever control developed by AT.



Maximum security		
High-precision detection of elevated body temperatures according to the IEC 80601-2-59:2017 standard, automatic adjustment with temperature reference.		
Recording of the body temperature on the inner corner of the upper and lower eye lids (canthi): Thus the measurement result reflects the actual body temperature value. On the other hand, if the face is measured over a large area, the body temperature is underestimated.		
Integrated fully automatic self-test functions for highest reliability of temperature measurement		
High flexibility and efficiency		
Fast measuring process and evaluation (< 1 second)		
3 variants for different distances between camera and face, e.g. due to local installation conditions		
Applicable independent of location: e.g. companies, authorities, railway stations, airports, etc.		
Designed for 24/7 continuous operation		
Easy installation		
Intuitive graphical display		
Temperature image of the face		
Body temperature, measured at the inner corner of the upper and lower eye lids (canthi)		
Automatic rating: Red = Suspicious body temperature, Green = Unsuspectious		
Portal Package (All-In-One solution for fixed installations at one location)	Mobile Package (Flexible setup with tripods for temporary screenings)	Integration Package (for the integration into existing systems / portals)
Intelligent camera IRSX 336S (incl. lens 1, 2 or 3) with Febri-Scan App, M12 power cable-2m, power supply (pigtail power cable) and M12-RJ45-5m Ethernet cable	Intelligent camera IRSX-I 640S or IRSX 336S (incl. lens 1, 2 or 3) with FebriScan App, M12 power cable-2m, power supply (pigtail power cable) and M12-RJ45-5m Ethernet cable	Intelligent camera IRSX-I 640S or IRSX 336S (incl. lens 1, 2 or 3) with FebriScan App, IRSX IO-Kit (consisting of terminal, power supply, 5m M12-IO cable and 5m M12-RJ45 Ethernet cable)
IP-blackbody with power cable and power supply	IP-blackbody with power cable and power supply	IP-blackbody with power cable and power supply
Portal with camera holder, blackbody holder, operator monitor holder, power supply holder, junction box, user display (WLAN coupled) with power supply	2x tripod with power supply holder and bag for blackbody (1.9m high) and camera (1.6m high)	The installation of this package requires the following conditions: 1x installation cabinet, etc. for camera IO-Kit and power supply
Operator monitor with embedded visualization PC and Vesa mount (suitable for desktop installation), power supply	Operator monitor with embedded visualization PC and Vesa mount (suitable for desktop installation), power supply	1x PC with monitor for displaying the camera app via web browser or integration of the camera image and results in your own user interface
Sticker/sign set 1x „no glasses“, 1x „keep distance“, 5x floor sticker „foot pair“	Sticker/sign set 1x „no glasses“, 1x „keep distance“, 5x floor sticker „foot pair“	1x brackets for camera mounting 1x brackets for blackbody mounting
The installation of this package requires the following conditions: 3x (4x with user display) 110V / 220V power supply 1x table for operator monitor	Pelicans for camera and IP-blackbody Optional: User display (WLAN coupled) for mounting on camera tripod with power supply The installation of this package requires the following conditions: 1x 110V / 220V power supply 1x table for operator (optional)	

Version 1.0 | Status: March 2020 | Subject to modifications and errors