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ITOCHU Techno-Solutions Corporation
Idein Inc.

Launch sales of Body temperature detection AI devices

Supporting the prevention of the spread of infection with fever, including
COVID-19 infection

ITOCHU Techno-Solutions Corporation (Satoshi Kikuchi, President & CEO; headquartered in Chiyoda-ku, Tokyo; hereinafter "CTC") and Idein Inc. (Koichi Nakamura, President & CEO; headquartered in Chiyoda-ku, Tokyo; hereinafter "Idein") have jointly launched a Body temperature detection AI device using a general purpose IoT device today.

The device combines AI-based facial recognition and surface temperature measurement functions, eliminating the need for extensive installation work. We will sell a minimum of 50 devices (Initial costs per device start from 120,000 yen (excluding tax) and monthly running costs from 80,000 yen (excluding tax)). We aim to provide this service to 200 companies in the first year.

This device can be installed in areas where people come and go, such as corporate reception areas and distribution facilities, to screen people who are suspected of having a fever. The visitor remains stationary in front of the device for a few seconds, and the device takes a non-contact measurement of body surface temperature. The system is also equipped with a facial recognition function using AI, which allows receptionists and security personnel to easily identify people who meet the criteria. This device can detect a suspected fever early and

prevent the spread of infection through appropriate response. The features are as follows.

<Features of the Body temperature detection AI device>

- General purpose device (Raspberry Pi) used to measure body surface temperature
- Measure the surface temperature of a person's face, recognized by AI
- Estimates a person's body temperature, considering the outside temperature of the installation environment*
- The device is small and lightweight and does not require extensive installation work

*The device is not a thermometer as defined by the Pharmaceutical and Medical Devices Act and cannot be used for medical consultations.

We are currently developing a cloud-based management system that will consolidate detection information such as device locations and target subject image data. The system allows the device to be installed at office entrances and exits and other locations where security personnel are not present, by providing notifications via email, etc. It is expected to be available in the summer of 2020. CTC and Idein will continue to work together to promote the development and diffusion of AI/IoT systems.

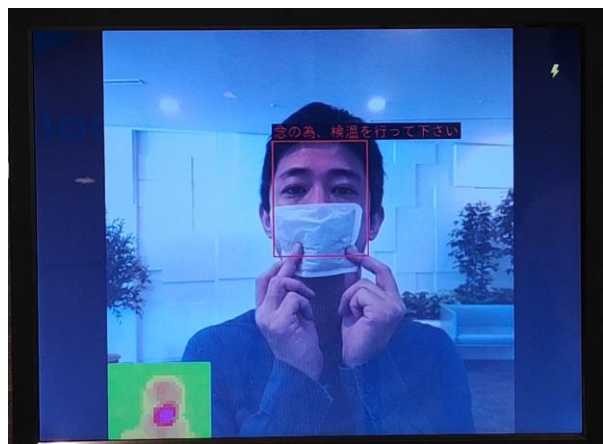
<Usage image of Body temperature detection AI devices>



The subject stops for a few seconds at a distance of about 0.5 m from the installed device. The device measures the subject's body surface temperature in a non-contact manner.



Measurements can be taken while wearing a mask



If a fever is suspected, a sign encouraging temperature measurement is displayed

■About Idein, Inc. (<https://idein.jp/>)

Idein is a startup with high technological capabilities that has made accelerating deep learning Inference on the Raspberry Pi, an inexpensive general-purpose device. Idein has developed Actcast(<https://actcast.io/>), the edge AI platform using the technology, and provides services to developers and companies that develop, implement, and utilize practical AI/IoT systems.

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