#### Annex A Product Fact Sheet



# SPOTON

## Smart thermal scanner (version 1.0)

SPOTON is a smart thermal scanner designed for quick, easy and safe temperature screening. It screens up to 10 people at once, with automated alarms and email alerts.

Combining low-cost commerciallyavailable hardware with Artificial Intelligence (AI) software capabilities, SPOTON offers affordability without compromising accuracy. A lightweight mobile device, SPOTON can be deployed both indoors and outdoors with a simple calibration process.





### A versatile, lightweight solution

- Consists of an infrared camera (FLIR Lepton 3.5), printed circuit board (PureThermal 2) and RGB-Depth camera (Intel RealSense D435)
- Measures 90mm x 85mm x 30mm
- Can be deployed both indoors and outdoors (away from direct sunlight, with a stable ambient temperature)
- Can be mounted on a tripod or laptop

## Colour-coded indicators for easy screening



**Green** if temperature is within normal range (≤37.5 °C)



Red if temperature is high (>37.5 °C)

**Alarm** alerts nearby operator **Email** alerts



NO MASK is displayed if a person is not wearing a mask

## Features

- Human face detection: Al algorithms detect only human faces, not objects, for accurate readings
- Face mask detection: SPOTON detects and indicates when a person is not wearing a mask with an accuracy of up to 80%\*
- Colour-coded temperature indicators per face
- Screens up to 10 faces at once
- ±0.3-0.5°C accuracy within a 1.5-2m range\*\*
- Alarm and email alerts: When high temperatures are detected, SPOTON triggers an alarm and email alerts to operators
- **Automatic snapshots**: When high temperatures are detected, SPOTON automatically takes and saves snapshots into a local folder
- Auto-calibration: Preset profiles for both indoors and outdoors for easy calibration

\*Based on optimal lighting condition with no back lighting.

\*\*In calibration tests conducted with the National Metrology Centre (NMC), SPOTON demonstrated an accuracy of  $\pm 0.28^{\circ}$ C $-0.33^{\circ}$ C for temperature ranges of 36^{\circ}C, 37^{\circ}C and 38^{\circ}C, with NMC's recommended pixel count of 10(V) by 10(H) at a distance of 1.65m.