

Effective procedures and methodologies to combat the spread of viruses

Identification of infected persons is crucial

In order to permanently reduce the risk of spreading viral diseases (COVID-19, influenza, etc.) in public areas and at the same time to make a better forecast of emerging geo-hotspots, it is necessary to carry out an early identification of infected persons. The access of these persons to crowds of people of any kind must be prevented and it must be possible to supply collected data in real time, in compliance with EU-GDPR, to AI-supported analysis databases.



Fever measurement as effective and pragmatic method

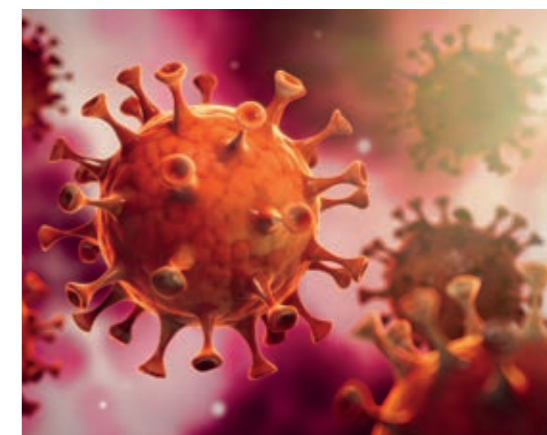
Fever is a non-obligatory, non-specific symptom, but it is a very useful screening tool for infections such as the corona virus. Any infection that is detected early can potentially save several lives. For this reason, fever measurement plays an important role in the detection of potentially infected persons, because:

- Fever is by far the most common initial diagnosis (according to WHO Report 2/2020: 87.9% for COVID-19)
- the body temperature due to the increasing immune defence already rises before the onset of usual symptoms
- detection can usually take place even with a low virus load

Simple measure for many applications

An automated, safe and intuitive fever measurement at central, preferably electrically controlled access points to crowds of people is an important measure that has been tested in many risk regions:

- to provide long-term and sustainable protection against viral diseases
- to re-establish social and economic contacts while controlling the risk of epidemics flaring up again
- restore public confidence in public security



SmartXcan

Body temperature measurement reinvented



SECURE



INTUITIVE



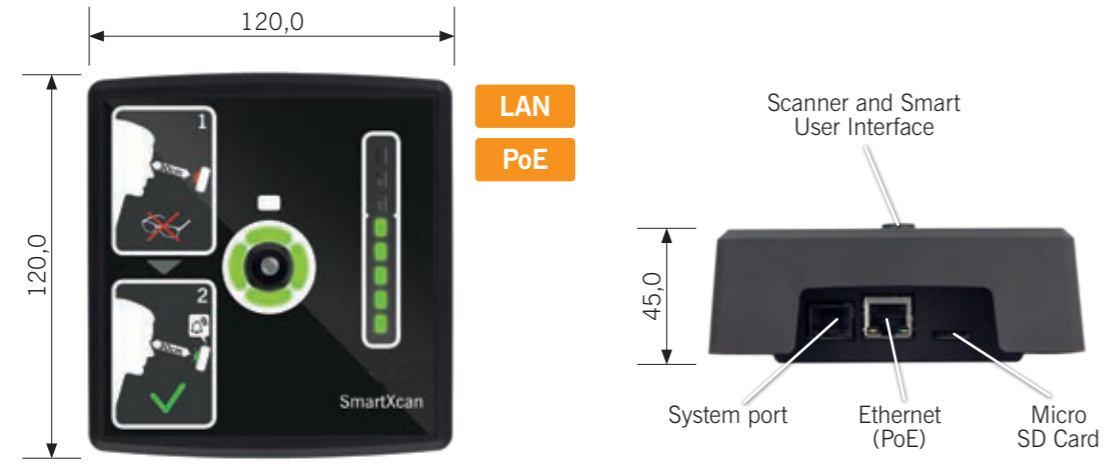
FAST

SmartXcan: Effective and EU-GDPR compliant protection against virus spreading

- **secure:** exact, contactless measurement, EU-GDPR conform operation possible
- **intuitive:** Self-explanatory user guidance
- **fast:** Throughput up to 700 persons/hour
- Manipulation protection through intelligent thermal image analysis
- Stand alone operation or manual or automated inlet control possible
- Provision of anonymous measurement data for hotspot detection
- efficient plug & play installation through PoE connection

Simple fever measurement in 2 steps





Technical details

User Interfaces	1. Contactless operation on the device with display of the measurement result via LED 2. Integrated web software with add. information on measurement results and configuration
Speed of the temperature measurement	0.6 seconds after head position detection Typical measuring time per person (approach - measure - step away) approx. 5 seconds
Software	Kentix OS, stand-alone operation with integrated web server (HTTPS)
connection option	Connection via network to AlarmManager-PRO
Sensor - IR Thermal Array	1024 pixel infrared array, measuring range 0 to 100°C, germanium optics, calibration temperature 35°C, reproducibility ±0.3°C, active temperature compensation, emissivity factor 0.97
Sensor - Distance	Distance measurement with resolution of 1mm, Class 1 eye safe laser measurement in accordance with the latest standard IEC 60825-1:2014-3
Buzzer	Acoustic measurement confirmation via buzzer, 85dB, 2.3kHz
Sensor - External output	2x signal output (e.g. measurement OK/NOK) to control doors, turnstiles etc., wiring via separate KIO3 power adapter with relay outputs
LED indication	Temperature scale with 8x LED for temperature indication and display of four temperature ranges Illuminated ring with 4x LED for focusing and measurement display LINK/ACT to Ethernet socket
Ethernet (LAN)	10/100 Mbit LAN connection, integrated web server (HTTPS, Port: 443) with server certificate
SD Card	Integrated Micro SD card holder as additional memory for image recording, up to 128 GB
SNMP	SNMP V2/3 (get/set), SNMP Traps (Simple Network Management Protocol)
ReST API	ReST API with JSON objects (HTTPS), Webhooks with free datastructure
Power supply via PoE	12-72VAC/DC power-consumption ca. 1.5W, PoE class 1 (Power over Ethernet)
System port	RJ45 for connecting external expansion modules
Housing	Material: PS 120 x 120 x 50 mm weight approx. 150g, protection class IP30 Color: Black
Environmental conditions	Temperature 0 - 50°C Air humidity 5-95%, non-condensing
Content of delivery	Mounting bracket, wall bracket, mounting material, SlimLine cable 3m
Accessories	PoE injector (KPOE150S) IO adapter with power supply unit for controlling external devices (KIO3)
Audits	CE

SmartXcan - flexible for all applications

Stand-Alone with DIRECT USER FEEDBACK

LAN PoE

voluntary and self-responsible
Self-monitoring

- Industry, Production
- Offices
- Banks
- Shops
- Delivery services, Logistics

Stand-Alone with AUTOMATIC ADMISSION CONTROL

LAN PoE

Measurement OK: (free)switching of the entrance
Measurement NOK: entrance remains closed

- Hospitals, Medical practices
- Retirement Homes
- Daycare centres, Schools, Universities
- Local authorities
- Leisure and sports facilities

Stand-Alone with VISUALIZATION

LAN PoE

Result display → Security → Manual admission → Admission control

- Events, Stadiums
- Fair, Conferences
- Theater, Cinema, Restaurants & Bars
- Public transport
- Airports, Train stations

Optional: Provision of anonymous measurement data

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