

# Safe Checkpoint Tower

## Flexible modular health check for entrances

To confront today's new challenges to manage entrances for the health and safety of all occupants, the Safe Checkpoint Tower is a solution that allows for easy integration of various technologies and applications in one standalone unit that can be easily added wherever and whenever needed on a pedestal, or retrofitted permanently on finished floors.

### The modular system

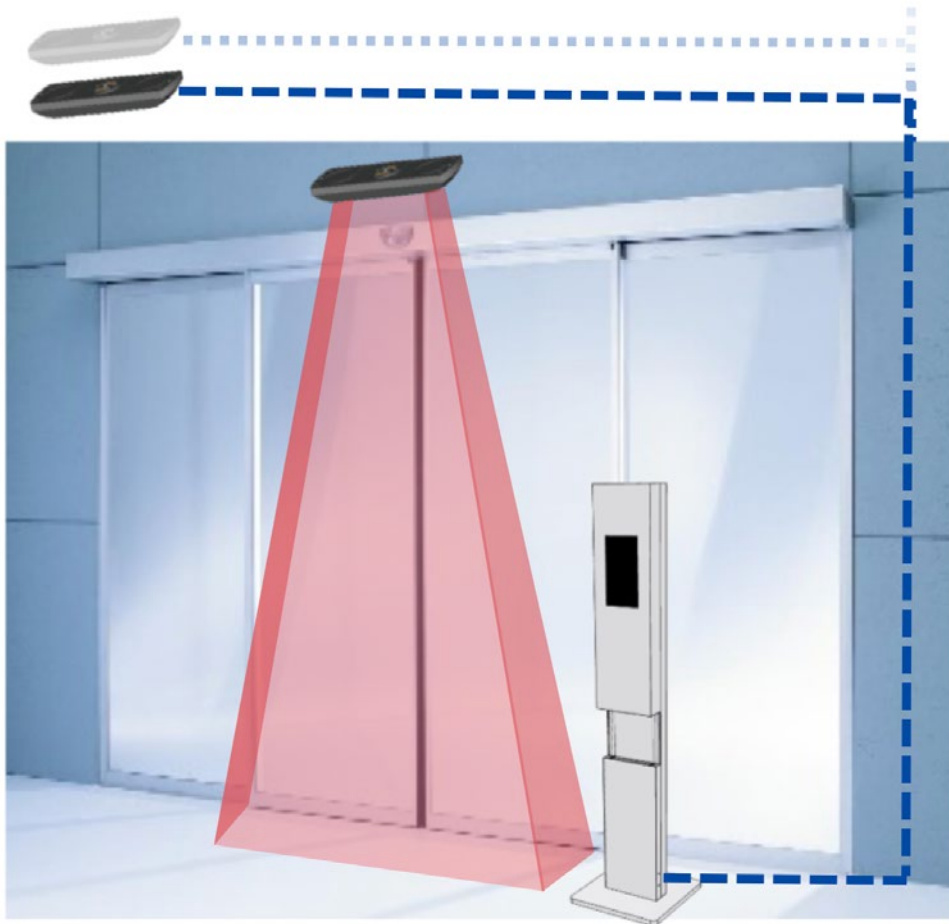
The Safe Checkpoint Tower comes with four optional functionalities to choose from:

- Hand sanitizer dispenser
- Elevated Body Temperature (EBT) check
- Face mask detection
- Crowd prevention

### The flexibility

The Safe Checkpoint Tower can be easily added to existing automated entrances and security barriers/gates, either as wireless battery-operated unit with basic functions or for full functionality with cabling AC power supply.

# Safe Checkpoint Tower: Crowd Control Option



## Features

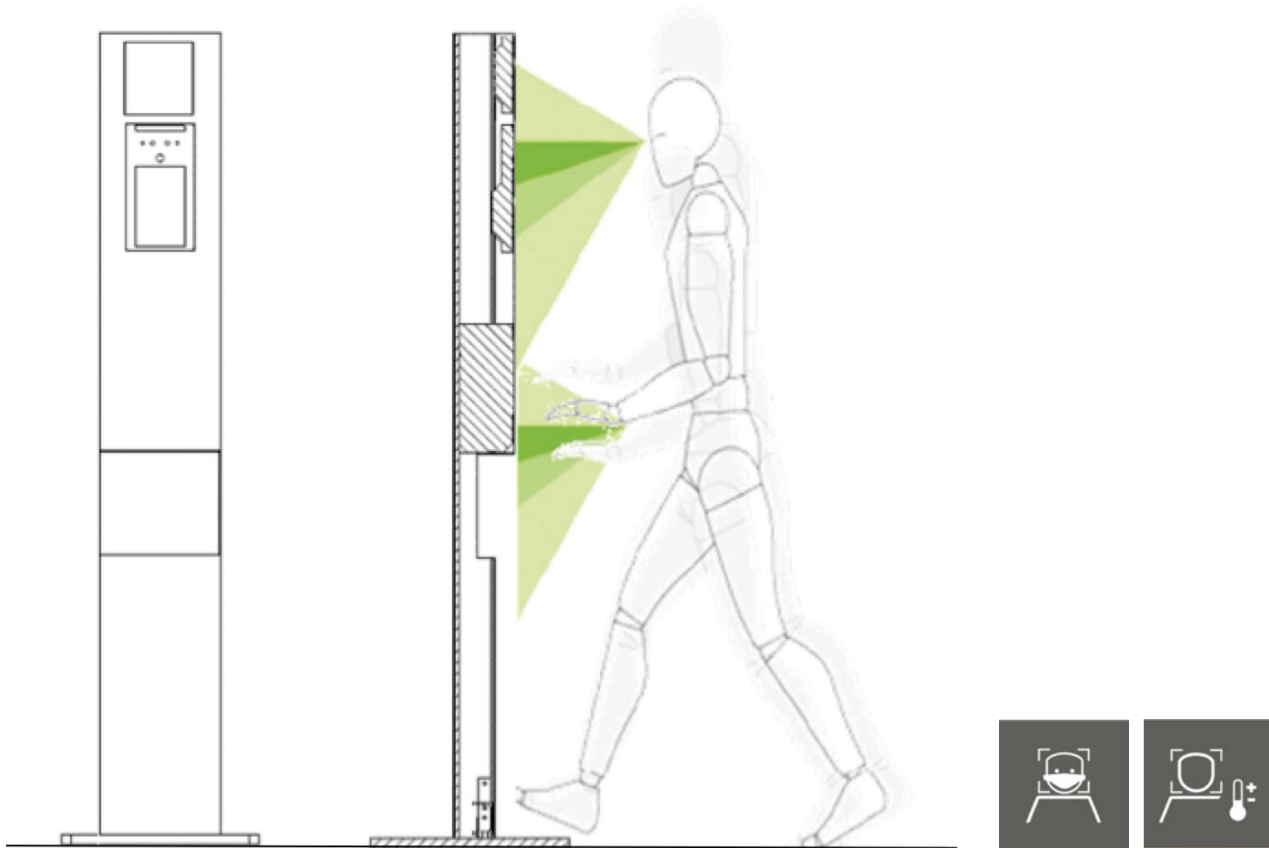
- Real time capture of occupancy to prevent over-crowding as well as demand-based resource deployment
- High Density Time-of-Flight Technology (ToF) for highly accurate >95% people counting accuracy
- Small compact housing design suitable for outdoor installation
- Integrated processor for signal processing and counting
- Easy installation using only 2 screws without any adjustment work
- Just one sensor per entry/exit point required. Modular expandability to network multiple sensors from various entry/exit points. Depending on complexity, server backend may be required
- No dependency from low ambient light. Even in darkness the sensor will deliver accurate counting results.

## Hardware

- Less than 205 x 145 x 65
- IP rating suitable for outdoor installation
- Power supply 24 VDC, or PoE
- Nominal 6 W
- Required lighting 0 LUX
- Min. installation height < 2.0 m to allow people to pass upright underneath the sensor

# Safe Checkpoint Tower:

## Elevated Body Temperature (EBT) and Face Mask Detection Option



### Features

- Automatic EBT and face mask screening assistance to support and expedite existing manual inspection procedures
- Elevated body temperature detection:
  - measurement deviation of  $\pm 0.3^{\circ}\text{C}$
  - measurement distance of 30 – 50cm
  - Operational environment: 20-30 $^{\circ}\text{C}$  indoors, free from direct thermal influences such as sunlight, fan, climate control, etc.
  - Temperature evaluation speed: <3 sec
- Mask detection and face positioning for temperature detection via high resolution CMOS sensor camera
- Mask detection using AI facial recognition algorithm
- 8-inch touch screen with 400 lux, which offers high visibility under strong and direct light
- Network interface for data integration flexibility

EBT check is for reference only.

### Hardware

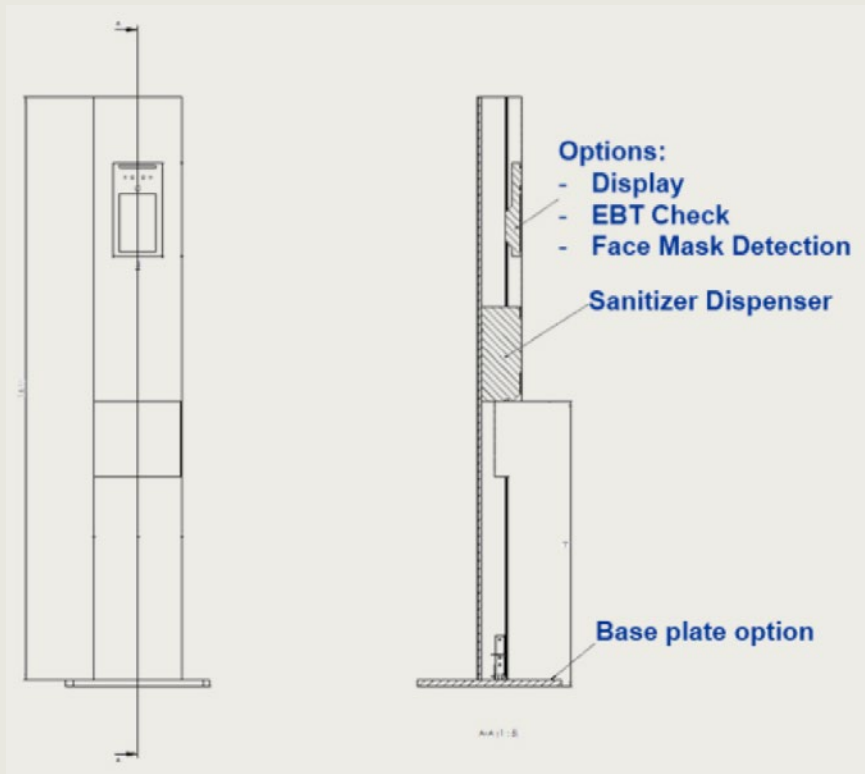
- 8-inch IPS Touch LCD
- High Resolution Low Light Camera
- 900MHz AI CPU
- 512MB RAM
- Infrared sensor array for temperature sensing
- 240V AC/DC SMPS
- Working Humidity:  $\leq 90$

### Disclaimer

Skin surface based EBT measurement technologies are recommended only for preliminary condition check. Further tests are required to determine a person's real health condition. The absence of EBT is not a test or confirmation that the person does not have or carry any disease. The use of EBT as well as any other technology capturing personal and/or health information data is subject to different national laws regulating, limiting or prohibiting its capture and/or use and/or storage. The operator of such system is solely responsible for its compliance.

# Key features

- Ergonomic design to ensure ease of sanitizing for both hands, and at the right height, also for visual display
- Slim aluminum core post design based on dormakaba structural engineering to ensure aesthetics and rigidity
- Basic dispenser holds up to 1.5 months of sanitizer for 30 people
- Dispenser can release and activate entrance wirelessly
- Optional EBT sensor with display
- Optional face mask detection
- Optional counting of passages with limit control



# Specifications

## Tower

- H1300mm (up to H 1700mm with add-ons) x W242mm x D121mm
- Mounted on finished floor without exposed fittings
- Optional base plate for free-standing placement: 400mm x 400mm
- Standard matt coated solid metal casing
- Cover easily opens for replacement of sanitizing fluids
- Functional aluminum core profile
- Basic configuration for indoor usage

## Dispenser

- Automatic activation via proximity sensor
- Power 4 x C Batteries (AC power supply optional)
- Capacity 1000 ml
- Suitable sanitizers: quick dry liquids, e.g. ethanol-based
- Dosage 0.8 – 1ml
- Wireless activation signal output option, with 24V wireless receiver compatible with most conventional automated entrances
- Wireless range of up to 10m in the open



## Enhanced Control Unit with Display Option

- For concise visual informative cues and feedback, as well as adjustment of settings
- 8-inch LCD display with capacitive touchscreen
- 800 x 600 resolution, display area: 163 mm x 123 mm
- ARM Cortex CPU platform
- Working temperature: -20°C ~ +70°C
- Power: 240V AC/DC SMPS
- Optional impulse counting and limit control



**Any questions? We would be happy to answer any questions you may have.**