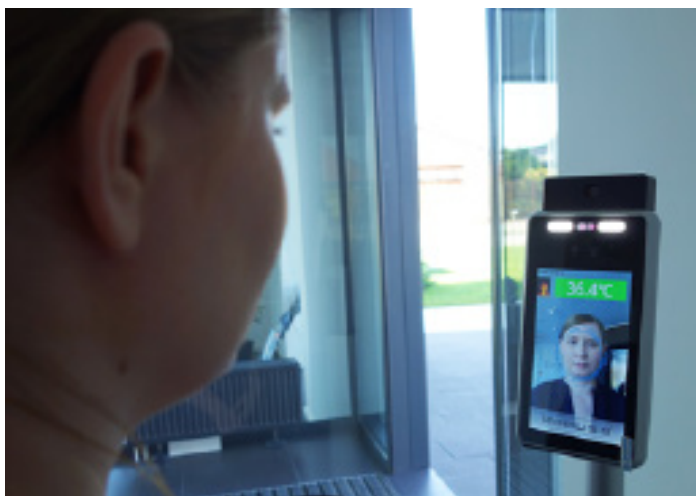


Mobilisis Control Terminal

Measuring body temperature and passage control

Značajke

- Measurement accuracy of $\pm 0,2$ °C
- Measurement distance from 0,3 m to 1,2 m
- Measurement speed of 0,5 s
- 99% and 300 ms for face recognition
- Universal power supply DC9-30V, AC 220V



Product description

Ever since the COVID-19 has become a serious global threat, a need for detecting possible symptoms has become paramount in preventing further spread of the virus.

Mobilisis HERO TD01 Control Terminal is equipped with a range of thermal and visual sensors, as well as the latest software providing face recognition with and without a mask, quickly measures body temperature and suggests wearing a face mask indoors.

HERO TD01 is resistant to water, moisture, and dust and can be used indoors and outdoors. Additional advantages are

that the device is easy to use and can be installed quickly with the possibility of choosing stands for table, wall, or any floor surface. The control terminal is ready for use right after it is plugged into a power source.

The control terminal can be used independently, without additional systems, and is pre-configured to show a warning for the body temperature higher than 37.2 °C.

Application

- Schools, hospitals, pharmacies
- public institutions, public transport
- malls, gas stations
- office buildings
- access control
- employee identification and worktime management
- building capacity enforcement



Technic specification	
Model	Hero TD01-G
Sensor type	Uncooled infrared focal plane network
Infrared thermography camera	120 * 90
Thermal measurement area	0.3 m - 1,2 m
Thermal measurement accuracy	± 0,2 °C
Hardware	
Processor	AI chipset ARM Cortex-A7 quad-core, 4 x CEVA DSP high performance
OS	Linux
Storage	8 GB EMMC + 1 GB DDR4
LCD	7 inch, 1024 * 600 resolution
Camera	
Sensor	Double 2Mp, low lux sensor
WDR	≥120dB
FoV (diagonal / horizontal / vertical)	73 ° / 65 ° / 40 °
Aperture	F2.0
Focal length	4,3 mm
Performance	
Biopsy	Anti-electronic screen, video, masked hacker attack
Height recognition	1,2 ~ 2,2 m, auto adjustable angle
Detection range	0,5 m ~ 2 m, adjustable lens
Face recognition learning set	30.000 (default)
Attendance record	30.000
Face angle	horizontal 30 °, vertical 30 °
Interface	
Entrance alarm	2 pc.
Exit alarm	1 pc.
Access control	Signal output
Power supply	DC12V, 2A (9 -16V DC)
Energy consumption	Less than 24 Wh
Ethernet	1 pc. RJ45 10 m / 100 m Ethernet
Wi-Fi	2.4G Wi-Fi (optional)
USB	1 pc. USB 2.0

Wiegand	1 pc.
General	
Operating temperature	-40 °C ~ + 60 °C
Dimensions	120 mm * * 33.5 mm 226.5 mm

Algorithm parameters	
Face recognition	Local recognition: 30 000 (default)
Algorithm accuracy	99,9%@0.01% (The accuracy rate is 99% below 10,000 false alarm rates)
Angle requirements	yaw $\pm 30^\circ$, inclination $\pm 30^\circ$, pitch $\pm 15^\circ$
Minimum face pixels	Face size above 80 * 80 pixels
Discovering face biopsy	Requirements at an angle yaw $\pm 30^\circ$, roll $\pm 30^\circ$, pitch $\pm 15^\circ$
Face pixel requirements	Interpapillary distance of 50 pixels and more
Algorithm accuracy	98%@0.01% (Actual pass speed @ Dummy pass rate)
Non-biopsy category	Pictures, videos, coated paper, fake face models, etc.
Face detection and tracking	Number of recognized people - more than 30 people per frame
Frame speed	25 fps
Minimum face size	30 x 30
Adjustment angle	yaw $\pm 45^\circ$, roll $\pm 45^\circ$, pitch $\pm 30^\circ$
Facial attribute	Gender, age, glasses, facial expression (angry, calm, happy, sad, surprised), mask, beard, nationality, hat detection, helmet detection
Algorithm accuracy	Age accuracy (± 5 years): more than 85%;
	Gender accuracy: more than 96%; Skin colour accuracy: more than 97%; Chin accuracy: more than 97%; Glasses accuracy: more than 98%; Mask accuracy: more than 98%; Cap accuracy: more than 97%; Expression accuracy: more than 88%