Presence

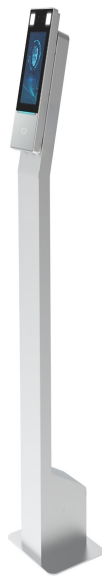Access, time and attendance system with face recognition and RFID reading

Description

The Videosec *Presence* as the Videosec Access and Time & Attendance system can be used to replace attendance sheets with facial recognition and RFID reading. No more forgotten or lost cards, no more access with someone else's card when using the card+face recognition rule. Frequent changes of casual employees are also easily tracked.
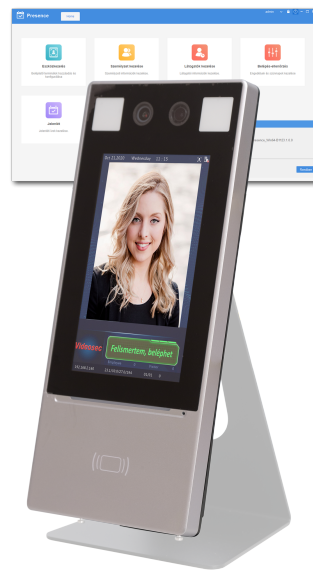
The employer is responsible for keeping records of working time and attendance. Our *Presence* system digitizes this process, eliminating manual reports and paperwork. The Presence software at the heart of the system can collect data from up to 32 access control units into a central register. The software provides accurate, comprehensive and transparent data on employee attendance and working hours, just as required by legislation.

You can assign workers to multiple departments and groups, assign shifts to them, or set informal working hours. The system automatically decides for each facial recognition event whether it is a start of work, end of working time, lateness, early departure, overtime or exit/entry during working time (the latter can be assigned as official or private). The same access control unit can be used by both incoming and outgoing employees.

The data can be easily transferred to payroll without additional calculations, paperwork and manual reports. The Presence software generates a spreadsheet in XLSX format for the selected period and persons. Scheduled leave and absences can be entered into the system in advance, unscheduled events can be categorised afterwards with a few clicks. The legal background of the face recognition in Hungary is regulated by the change of the Labour Code in April 2019, and a signed declaration of the employee and a justification are required for its use. For your country, please check the related legislation.

Floor-standing installation *   Desktop installation

*Important: Floor-standing or desktop installation requires a separately available accessory - **EP-S31-W-NB** or **EP-SZ34**, the mounting plate for vertical installation on the wall is supplied with the terminal.

Product Features

- Face recognition based on deep-learning algorithm, face recognition accuracy >99%, miss rate <1%

- Built-in IC card reader handling 13.5MHz card serial numbers, Wiegand input and output, reversible bit order

- Built-in self-learning face recognition system enables stand-alone operation, handles 10,000 locally stored faces, even as whitelist, 0.2sec detection time

- WDR, 2MP (1080P) Starlight wide-angle camera with f/1.6 lens, with high enough image quality in complex lighting conditions

- Self-learning algorithm provides effective protection against false identities (presenting a photo or video to the camera)

- Face-based and human body-compensated exposure control adapts effectively to rapidly changing lighting conditions

- Recommended face detection installation height from 1m to 2m, face detection distance: 0.2m to 2.9m

- Energy-saving screen mode and low-brightness (anti-glare) night mode

- Up to 5 different photos of a single person can be uploaded to the face recognition database

- Video recording (to NVR) and ONVIF protocol support

- Access control via facial recognition, RFID card or a combination of both

- Two-way audio support

- Built-in 4GB eMMC storage, for reliable storage of 30,000 events (including images)

- Sabotage protection, door opening timeout and automatic opening support for fire alarm (alarm input)

Specifications

Property	Value
Operating system	Embedded Linux
Facial recognition accuracy	>99%
Face recognition time	200ms
Face database size	10,000
Internal data storage	4GB
Event capacity	30,000 (with JPG snapshots)
Eligibility identification options	Face whitelist: (1:N)
	RFID card: (1:N)
	RFID card linked to matching face identification
Door opening options	Face, IC Card, Exit button, Remote control (Guard Station)
Data communication	10/100Mbps adaptive network port
Contact card type	Mifare 1 Card
User management	Inside *Presence* software. Set up group synchronisation rules to every terminal. Users' face library import/export, delete and edit
Recording options	Local image ecording and realtime event upload
Recommended software solution	PRESENCE (Windows x64 environment, low machine requirements, 3 main program modules) database server, continuously running data collecting service, on-demand running client software
Connectivity options	LAN x 1, Wiegand input x 1, Wiegand output x 1, RS485 x 1, Alarm input x 2, Alarm relay output x 1, USB2.0 x 1, Lock relay output x 1, Door state input x 1, Exit button input x 1
Power source	12V ±25% DC
Display	Touch screen, Size: 7", Resolution: 600×1024
Camera	Dual-lens, 2MP, 1080p
Additional light	LED white light and IR light
Dimensions (L x W x H)	134.0mm x 33.0mm x 305.0mm
Dimensions	Access terminal: 420 x 220 x 65mm Weight: 1.36kg
Working environment	-20°C - +65°C, Relative humidity <95% (non-condensing)
Environmental protection	IP54
Application site	Indoors, or well shielded from weather when outdoors