



Exceptional security with ManuScan

Biometric identification system

Made in Germany





Business must be in safety

If you are looking for the most reliable access control to the territory of your company or office – a biometric identification system from Infocom is the best solution! It can be easily integrated into the existing security system and is BSI (ISO structural unit) certified.

With us, your business is securely protected!

How does the ManuScan biometric access control system work?

To get to the territory or to the office, you need to raise your hand to the system scanner.

Blood in the veins reflects infrared radiation, which the scanner illuminates the hand. This is how the pattern of the palm veins is formed. For greater safety, the presence of a pulse is also monitored.

The camera with the sensor records the image of the imprint of the veins and converts it into a unique hash. The resulting hash is compared with those stored in the system database.

If a hash is matching one in the database, the algorithm works according to the configured profiles, depending on the application of the identification system.





Benefits of ManuScan identification system

Palm vein scanning is a much more reliable method of identification compared to methods such as fingerprint scanning, 2D and 3D facial recognition.

The pattern of veins cannot be reproduced and forged.

The system is simple and convenient to use.

The vein palm scanner works faster compared to systems using retina or iris recognition

Identification methods comparison

	Fingerprint	Retina	Iris	2D face recognition	3D face recognition	Palm vein scanning
Identification reliability	Average	High	High	Low	Average	High
Access falsification	High	Low	Low	High	Average	Low
False Access Rate [%]	0,01	< 0,00008	< 0,00009	< 5	< 0,003	< 0,00008
False Reject Rate [%]	≈0,2	≈2	≈3	< 20	< 0,05	< 0,01
Psychological perception	Normal	Low	Low	Normal	Normal	Normal
Usage comfort	High	Low	Low	High	High	High
Identification speed	High	Average	Average	High	High	High
Hygiene	Low	High	High	High	High	High
Price	Low	High	High	Low	High	Average



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There are two types of scanners - external and internal, which are used depending on the needs of the organization. External scanners are installed on the facades of buildings and/or at the entrance to the territory, and internal - at the entrances to individual rooms.

Both types have the same purpose - to identify people entering the premises or territory and to restrict unauthorized access. For scanners of both types, You simply use your hand as an access key.



Outdoor scanner

- Functional in direct sunlight.
- Stable performance in all weather and climatic conditions, from -25 ° C to + 85 ° C.
- Built-in sensor with anti-vandal function.
- A wide range of interfaces, which allows you to easily integrate it into an existing access control system.
- Integrated software and hardware backup system.
- Integrated RFID card reader (Mifare Desfire EV1 or Legic Advant-Option).
- Compliance with EMV and EMP military requirements.
- The world's first palm vein sensor for external use.



Indoor scanner

- The compact internal sensor fits perfectly into any interior.
- Visible in the dark - built-in LEDs around the perimeter of the case.
- Integrated touch PIN reader.
- GU / BKS access - the system is compatible with any access control system.
- Different functions are possible depending on the position of the hand - opening or locking the door, alarm, lighting control, secret police call, etc.
- Optional interchangeable frames, available in different materials - aluminum or glass of different shades.



The pattern of palm veins cannot be reproduced

- Biometric data is protected from unauthorized access at all stages of the identification process.
- Biometrics (hash) are encrypted at the level of Fujitsu Software SDK AES 128-bit – BSI-certified (ISO standards).
- The data is additionally encrypted with iCOGNIZE AES 256-bit.
- The hash is stored in an AES 256-bit encrypted database. Thus the data is encrypted three times.
- Sensor communication with the authentication node is also encrypted with AES 256-bit.



Our clients

- Offices
- Data centers
- Banks and vaults
- Power plants
- Laboratories and medical institutions
- Research centers
- Airports
- Hotels
- Warehouses
- Commercial and commercial buildings
- Embassies and consulates
- Production and industrial facilities



**Entrust the security of your business
to us and do not be distracted from
solving strategic tasks!**

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