



Palm Vein Recognition

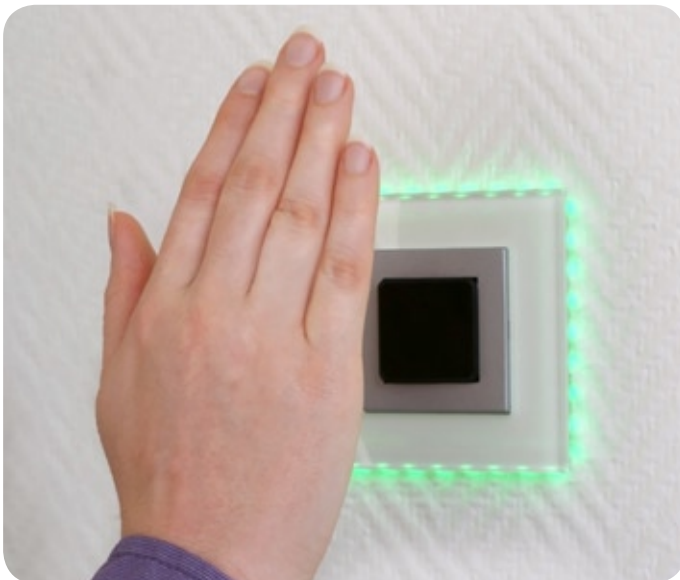


Biometric technology eliminates the need for tokens such as keys and passwords



The Controlware PalmScan is a biometric authentication system that utilizes the latest scientific technology to analyze vein patterns in the palm of your hand. Secure, fast and easy to use PalmScan is ideal for a variety of access control applications including identity verification for access to restricted areas or devices.

PalmScan works by capturing vein patterns with near infrared rays. The vein pattern is then verified against a preregistered pattern to authenticate the individual. Since vein structure is unaffected by age, fitness, weight etc. attempts to forge an identity are extremely difficult, thereby enabling a higher level of security than other access technologies including finger print and iris scanners. Additionally, the PalmScan



Features

- ▶ Most reliable system on the market, false acceptance rate < 0.00008%
- ▶ Very user friendly, false rejection rate < 0.01%
- ▶ Good user acceptance - hygienic, contact less
- ▶ Physical and/or logical access system (door or password control)
- ▶ Works in verification mode (with RFID card) and identification mode (without RFID card)
- ▶ I/O interface easily integrates with existing installations
- ▶ Seamless integration with the Cware advanced management platform
- ▶ PalmScan can be easily adapted for use in diverse environments
- ▶ Components are certified by German Federal Office for Information Security (BSI)

sensor only recognizes the vein pattern if deoxidized hemoglobin is actively flowing within the individual's veins i.e. PalmScan will only work if the individual is alive.

PalmScan has already been integrated with Controlware's advanced Cware video surveillance management platform. This provides the opportunity to integrate PalmScan into a wide range of security solutions in financial/banking, healthcare, commercial enterprises and educational facilities.



Technical Specifications

Physical Dimensions	Very small sensor system, 35mm x 35mm x 27mm
Power Supply	Low power consumption, <2.5W for the sensor, around 5W for the CPU
Scan	Contactless, distance to sensor 5cm +/- 1cm, Scanning method delivers life detection for free
Insensitive	Almost insensitive against ambient light (outdoor use possible, no direct sunlight or lamps).
Recognition	Very low recognition time (< 0.5s), Almost unlimited number of users in verification mode
Fast enrollment	10s - 20s
I/O-Interface	Wiegand I/O, system will easily fit in present installations; Seamless links to Video Management Platform „Cware“ and therefore interacts with CCTV and additional applications
Operating temperature	0°C to 60°C
Certified	Components are certified by German Federal Office for Information Security (BSI)
Future-proof	Solution can be easily adapted to diverse customer requirements

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Controlware GmbH, with headquarters close to Frankfurt/Germany, is a leading independent system integrator. Since its inception in 1980 Controlware has accumulated extensive experience in the design, delivery and maintenance of advanced, but cost-effective IT networking solutions. By specializing in the integration of communication solutions, application delivery, physical security, IT security, management and network video solutions Controlware offers a range of turnkey solutions that can be uniquely customized to meet exact requirements. Controlware ensures customers benefit from the highest quality solutions through partnerships with leading manufacturers and innovative start-up companies. With expert local sales and service teams of more than 580 employees, backed up by global Technical Assistance Centers, Controlware ensures 24x7x365 coverage for customers throughout Europe, North America, Asia and Australia.

The Controlware Group also includes several subsidiaries including ExperTeach GmbH, a leading provider of multilingual training services. Networking specialists Networkers AG and experts Productware GmbH.

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