

Palm Vein products



Palm vein terminal BioSmart PV-WTCIP-enabled multilingual terminal for use in time attendance and access control solutions, delivering the advantages of palm vein identification technology. Palm vein diagrams offer greater uniqueness when compared to other biometric features, providing higher levels of security. The large scanning area means that the system's sensor can recognize palm vein images whether the hands scanned are dirty, wet, or scarred. It supports identification of up to 300K users in palm + card or palm + PIN modes.

- Solidly built housing with IP65 ingress protection
- TCP/IP-based with support of pure standalone mode (local enrolment)
- SSL encrypted connection to the management software
- Integrated RFID card reader, with support of template on card
- Extendable functionality via upgrades Access Control Functionality
- Single or multi-factor authentication (palm only, card only, palm + card, palm + PIN)
- Secure door strike/lock, PTE buttons, alarms connection via ZFlex Relay Module
- 2-Man rule (2 authorized employees are required to grant access)
- Escort mode (1 authorized employee and a visitor)
- Duress palms (silent alarm in case of a forced entry)
- Access zones (restrict access of employees to certain areas)
- Anti-passback (no entry is allowed if employee did not leave premises first)
- Tamper detection (sensor + switch)

- PV-WTC-EM BioSmart terminal PV-WTC with EM Marin card reader
- PV-WTC-MFDS BioSmart terminal PV-WTC with Mifare Classic/DESFire reader
- PV-WTC-U BioSmart terminal PV-WTC with multiformat reader Em-marine, HID Prox, HID iClass, HID iClass SE, Mifare Classic



Palm vein reader BioSmart PV-WMA wall-mount reader designed as an affordable yet powerful installation with palm vein identification support. The device operates via a UniPass controller, which can support two devices. This feature, as well as the lack of a screen and keyboard on the reader, allow for a reduced overall cost in installation when several readers are necessary.

- The most affordable palm vein solution
- Extreme accuracy and secure identification
- Forging is next to impossible
- Method is non-intrusive and works with almost any person of any age Technology

- PV-WM-EM BioSmart reader PV-WM with EM Marin card reader
- PV-WM-MFDS BioSmart reader PV-WM with Mifare Classic/DESFire reader
- PV-WM-U BioSmart reader PV-WM with multiformat reader Em-marine, HID Prox, HID iClass, HID iClass SE, Mifare Classic



The BioSmart UniPass controllerThe BioSmart UniPass controller is designed to operate two PV-WM or PV-TS readers via USB/Ethernet connection. The controller itself connects via a network to the BioSmart Studio v5 software, and is capable of controlling two locks or a turnstile via onboard relays. • Capable of handling up to 300K users in card + palm or PIN + palm modes• Simultaneous connection of two BioSmart PV-WM and PV-TS readers• Wiegand output interface• Capable of controlling two locks or one turnstile

PV-UPC BioSmart UniPass controller



The DCR-PV palm vein readerThe DCR-PV PALM VEIN READER is designed to scan palm veins and enter a digital model of the scanned pattern into the BioSmart database. Connection and data transmission are achieved via a USB interface. • High quality palm vein images• Contactless scanning of hands• Convenient design for easy palm positioning• Windows 7/8 and Linux support

DCR-PV BioSmart DCR-PV palm vein reader