

BACS™ Solo Palm

You Are The Key.

Single Biometric Reader with RFID



BACS™ Solo Palm is designed for customers upgrading their current access control system from ordinary card readers, to a biometric integrated solution. Solo Palm combines palm vein and RFID, enhancing authentication flexibility and offering a cost-effective and simple migration solution.

Migration products without card support can require a large investment, but Solo Palm offers simple UX palm vein authentication, along with the familiarity of a RFID reader. This allows the organization to utilize its existing card system and lower their initial investment.

The palm vein sensor and RFID card reader are integrated into an ergonomic design that features a curved surface, allowing the user to hold their hand in a natural position. The authentication process also mimics the gesticulation of card tagging, creating a seamless transition. This user friendly design ensures an intuitive experience for people who are not familiar with biometric readers.

Solo Palm provides a 100% touchless access control solution, eliminating any hygiene issues that can arise when there is a large number of users. In addition to maintaining a high standard of hygiene, the combined authentication of Palm Vein and RFID card can provide a strong solution for the necessity of higher security.



I Security and Reliability I

- Multi-biometric authentication - Palm Vein & RFID
- AES 256 data encryption
- Remote data management, firmware update and access control management via CruAMS (CrucialTrak Access Management System)
- Enhanced information security through tamper switch

I Performance I

- High-speed data processing
- Sound and LCD & LED indicator support
- Various management functions such as time and attendance, restricted area, distance control, etc.
- Logging up to 100,000 events, Palm vein registration for up to 500 users

I Compatibility I

- Support 13.56MHz, ISO14443A/B, ISO-15693, NFC
- Flexible connection between different brand terminals through various interfaces
- Support built-in relay

I Convenience I

- Optimal biometric and RFID UX



	BACS™ Solo Palm
CPU	2G Hz Hexa Core ARM CPU
Memory / Storage	2G / 8G
Built-in Display	Motion-activated light, Color changing
Audio Out	Sound effect
Operation Mode	Palm Vein and RFID (single and multi-mode)
Biometric Recognition	Palm Vein
Recognition Distance	35 mm ~ 76 mm / 1.4 in ~ 3.0 in
FAR / FRR of Algorithm	0.0000001 / 0.01
Capacity	500 palms
Encryption	AES 256
Safety	UL60950-1, EN60950-1
Tamper Protection	SPiP (Smart Personal Information Protection) feature
Event Log Capacity	100,000 events
Communications	100Mb Ethernet
External Interface	USB 2.0 & HDMI (Debug)
Remote Control	Built-in WEB server
Input / Output	Exit in, Door status in, Alarm in, Fire in (24V enable), Wiegand out, Relay x 1
Connections	12p socket, 8p Ethernet socket, HDMI (Debug), Standard USB2.0 (Debug)
Power	12V DC / 3A
Dimensions	132 mm x 85 mm x 132 mm / 5.19 in x 3.36 in x 5.19 in
Weight	0.5 kg / 1.1 lb
Color	Pearl black
Languages	English (Customization available)
Operating Temperature	0 ~ 60 °C / 32 ~ 140°F
Operating Humidity	5% ~ 80%
Housing Materials	Flame retardant ABS, Poly carbonate, PP
Management SW	CruAMS (CrucialTrak Access Management System)
Mounting	Default wall mounting bracket
Built-in RFID	13.56MHz, ISO14443A/B, ISO-15693, NFC
Certifications	CE, NRTL, TUV, FCC, KC

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