

BACS™ Duo

You Are The Key.

Dual Biometric Reader with RFID



Fast & Accurate. Effortlessly verify who you are, with just a glance.

BACS™ Duo's simultaneous 2-factor authentication process combines face and palm vein with an optional RFID reader, for strong and convenient biometric access control. The multi-modal authentication option technology heightens the level of security and accuracy, while being user-friendly and adaptable.

With Duo, you can effortlessly verify who you are, with just a glance. CrucialTrak's 3-step matching algorithm allows Duo to intelligently recognize on-coming objects within a distance of 8 ft., and authenticates them within 0.05 seconds - there is no need to even stop.

Duo offers an RFID card reader option, Wiegand communication, and it is compatible with any existing system; lowering your initial investment. Designed for flexibility, the Duo can be mounted on the wall or a gate with its specially designed stand. In addition, the 100% touchless solution helps you avoid hygiene issues that can occur when there are large numbers of users.

I Security and Reliability I

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

I Performance I

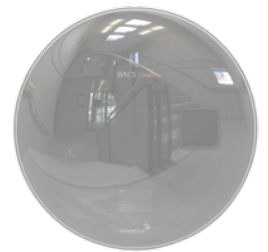
- High-speed data processing
- Sound and LCD & LED indicator support
- Various management functions such as time and attendance, restricted area, distance control, etc.
- Saves up to 1,000,000 event logs

I Easy to install I

- Supports various types of RFID
- Flexible connection between different brand terminals through various interfaces
- Supports both stand-alone and system-linked
- Built-in relay support

I Convenience I

- Simultaneous authentication
- Wide authentication angle - up to 60°



	BACS™ Duo		Remark
CPU	Integrated CPU set		
Memory / Storage	8G / 64G, 128G		64G default
Built in Display	3.5" LCD Display / LED round indicators		
Color	Midnight Black		
Operation Mode	Face & Palm Vein & RFID (single & multi mode)		
Biometric Recognition	Face	Palm Vein	
Recognition Distance	~ 2.5m / ~ 8 ft.	35 ~ 76mm / 1.4 ~ 3.0in	
FAR/FRR of Algorithm	0.001 / 0.1	0.00001/0.01	
Capacity	up to 50K	up to 5K	
Encryption	AES 256		
Safety	UL60950-1, EN60950-1		
Speak out	Sound effect		
Dimensions	180(W) x 69(D) x 180(H) / 7.1(W) x 2.7(D) x 7.1(H)		mm/in
Weight	1 / 2.2		kg/lb
Communications	100Mbit Ethernet, Wiegand Out		
Input / Output	Input : Exit, Alarm, Door status, Fire / Output : Relay out		
Face Image Enhancement	WDR (Wide Dynamic Range) function		
Event Log Capacity	1,000,000 events		
Remote Control	Built in WEB server		
Power	12V DC / 3A		
Tamper Protection	SPIP (Smart Personal Information Protection) feature		
Proximity Sensor	Built in and adjustable		
Languages	English (customizing available)		
Operating Temperature	-20 ~ 70 / -4 ~ 158		°C/°F
Operating Humidity	5% to 80%		
Storage Temperature	-30 ~ 80 / -22 ~ 176		°C/°F
Certifications	CE, NRTL, TUV, FCC, KC		
Housing Materials	Flame retardant ABS, Poly Carbonate, PP		
Management SW	CRUAMS (CrucialTrak Access Management System)		
Connections	12p socket, 8p Ethernet socket, Mini DP(debug), Standard USB(debug)		
Mounting	Default wall mounting bracket		
Options	Built in RFID reader*, Lighting Panel		