

BACS™ Duo-S

You Are The Key.

Dual Biometric Reader with RFID



Seamless integration and compact form factor, the perfect solution for switching to a biometric access control system.

The Duo S combines face and palm vein recognition with RFID capabilities, delivering convenience and security in a compact design. The dual biometric authentication and RFID capabilities maximizes convenience by allowing you to select the authentication method that best suits your environment. With various RFID card options and Wiegand communication, Duo S can seamlessly integrate with your existing system, lowering user interface barriers and minimizing initial investment.

In addition, Duo S provides a 100% touchless access control solution, eliminating any hygiene issues that can arise when there is a large number of users.



| Security and Reliability |

- 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

| Performance |

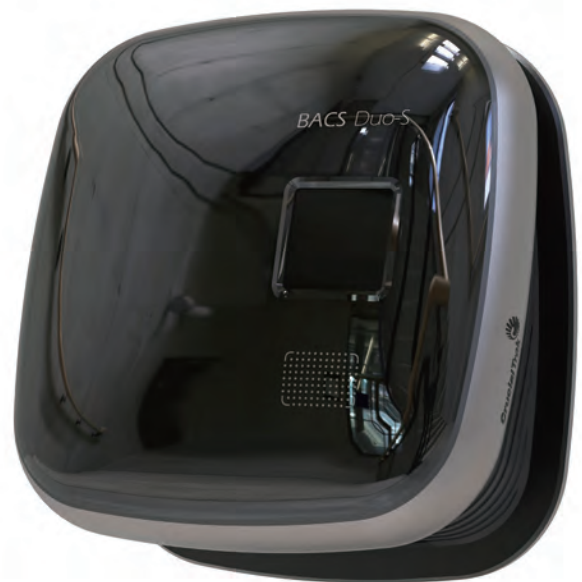
- High-speed data processing
- Sound and LCD & LED indicator support
- Various management functions such as time and attendance, restricted area, distance control, etc.
- Logging for up to 1,000 events

| Easy to install |

- Supports various types of RFID
- Simple integration with an array of systems via various interfaces
- Supports both stand-alone and system-linked
- Built-in relay support

| Convenience |

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



BACS™ DUO-S		
CPU	2G Hz Hexa Core ARM CPU	
Memory / Storage	DDR3 2GB / microSD 8GB	
Built-in Display	2.23" OLED display	
Audio out	Sound effect	
Color	Metal Black or Dark Gray	
Operation Mode	Face, Palm Vein and RFID (single & multi-mode)	
Biometric Recognition	Face	Palm Vein
Recognition Distance	~2 m / ~6.5 ft	35 mm ~ 76 mm / 1.4 in ~ 3.0 in
FAR / FRR of Algorithm	0.001 / 0.1	0.0000001 / 0.01
Capacity	2,500 faces	500 palms
Encryption	AES256	
Safety	UL60950-1, EN60950-1	
Event Log Capacity	100,000 events	
Communications	100 Megabit Ethernet, RS-485, USB 2.0 (Debug), Wiegand in/out	
Remote Control	Built-in WEB server	
Connection	12p socket, 8p RJ45	
Input / Output	In: Exit in, Door status in, Fire in(5~24V enable) / Out: Relay x 1	
Power	12V DC / 3A	
Dimensions	140 mm x 65 mm x 150 mm / 5.5 in x 2.5 in x 5.9 in	
Weight	0.8 kg / 1.76 lb	
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 reader	13.56MHz, ISO14443A/B, ISO-15693, NFC	
Face Image Enhancement	WDR (Wide Dynamic Range) function	
Certifications	CE, NRTL, TUV, FCC, KC	

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