

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.



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

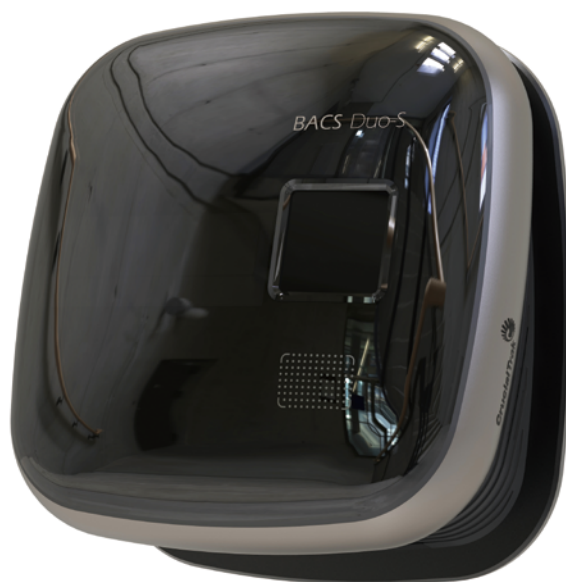
- High-speed data processing
- Sound and LCD & LED indicator support
- Various management functions such as time and attendance, restricted area, distance control, etc.
- Logging for up to 1,000 events

I Easy to install I

- Supports various types of RFID
- Simple integration with an array of systems via various interfaces
- Built-in relay support

I Convenience I

- Simultaneous authentication
- Wide authentication angle - up to 130°



BACS™ DUO-S		
CPU	2G Hz Hexa Core ARM CPU	
Memory / Storage	DDR3 2GB / MicroSD 8GB	
Built in Display	2.23" OLED display / LED round indicators	
Color	Metal Black or Dark Gray	
Operation Mode	Face, Palm Vein and RFID (single & multi mode)	
Biometric Recognition	Face	Palm Vein
Recognition Distance	~ 2m / ~ 6.5 ft	35 ~ 76mm / 1.4 ~ 3.0in
FAR/FRR of Algorithm	0.001 / 0.1	0.00001/0.01
Capacity	500 faces	500 palms
Encryption	AES256	
Safety	UL60950-1, EN60950-1	
Built in RFID reader	13.56MHz, ISO14443A/B, ISO-15693, NFC	
Speak out	Sound effect	
Dimensions	140(W) x 65(D) x 150(H) / 5.5(W) X 2.5(D) X 5.9(H)	mm/in
Weight	0.5 / 1.1	kg/lb
Communications	Gigabit Ethernet, RS-485, USB 2.0 (Debug), Wiegand in/ out	
Input / Output	In : Exit in, Door status in, Fire in(5~24V enable),Alarm / Out: Relay X 1	
Event Log Capacity	100,000 events	
Remote Control	Built in WEB server	
Tamper Protection	SPIP (Smart Personal Information Protection) feature	
Power	12V DC / 3A	
Face Image Enhancement	WDR (Wide Dynamic Range) function	
Languages	English (customizing available)	
Operating Temperature	-10 ~ 60 / 14 ~ 140	°C/°F
Operating Humidity	5% to 80%	
Storage Temperature	-20 ~ 70 / -4 ~ 158	°C/°F
Certifications	CE, NRTL, TUV, FCC, KC	
Housing Materials	Flame retardant ABS, Poly Carbonate, PP	
Management SW	CRUAMS (CrucialTrak Access Management System)	
Connection	2p power, 16p socket, 8p RJ45	
Mounting	Default wall mounting bracket	