

FRS-1 / FRS-1T

Facial Recognition reader with Thermal sensor

Facial recognition is the latest iteration of secure biometric access and the accuracy of the technology has been dramatically improved throughout the past few years.

Along with a card reader as a second method for authentication, our FRS readers also come with a thermal sensor that can measure body temperature.

By detecting and preventing entry to employees or visitors who exhibit high body temperature, the thermal reader will help protect the people inside the premises from potential infection.



Store Up to 20,000 facial characteristic templates;
Facial Recognition speed <0.5s & accuracy ≥99.8%;
Facial Recognition distance 0.3m~1.5m.



Off-line management: management via settings card or password with support for off-line synchronization of facial database.



Multiple authentication options with face, card and PIN as well as comparison of face+card (facial characteristic templates stored in the user card).



Support fire alarm input and on-screen indication of Escape Route.



Supports optional external card reader connection optional relay output.



Supports scrambled keypad for extra security on PIN.



Living Subject detection:
Prevents the use of photos and videos of cardholders for gaining access.



Store up to 20,000 off-line events and temperature display.



Separate indication of Facial Match results and access status.



Display thermal imaging; In the case of high temperature, the reader will send a pre-set card No. to the controller and restrict access. (FRS-1T only)



Support for alarm function and photo capture when high temperature is detected. (FRS-1T only)



Support for multiple interfaces - Wiegand & RS485 (OSDP).

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Technical Specification

Configuration Functions:

Reading Technology	125KHz, ISO14443A, ISO15693
Access Modes	Facial / Card / Pin
Management	Settings card / Password
Reader output	Wiegand / RS 485 OSDP
Hardware output	Relay output 12VDC@1A
Communication	WIFI / Ethernet Port

Technical Specifications:

RAM	DDR3 2G
Flash	16GB
Touch Screen	8" Capacitive LCD
Light Compensation	Both cameras
Recognition Distance	0.3m to 1.5m

Temperature Sensor Parameter (FRS-1T only):

Detection Deviation	±0.5°C
Detection Distance	0.5m
Field Angle	33° ~ 90°

Operation Specifications:

Operating Voltage	10-15VDC
Operating Current	2A (max)
Operating Temperature	20°C - 55°C
Exterior Dimension	272 * 135 * 35mm
Operating Humidity	10% - 90%



Part Numbers

FRS-1	Standard Facial Recognition Reader
FRS-1T	Thermal Facial Recognition Reader



Wall mounting bracket as standard, with desktop mount available on request.