Made in Taiwan

SOYAL®

Vision Series

AR-837-EA

Multifunction Face Recognition Controller

Dual cameras live dynamic face expression detection
Access denied when using pictures, videos

(Flush Mounting or Surface Mounting)

Face Recognition & Dual Band Access Control & Time Attendance

Built-in door relay, alarm relay, duress output with multiple output port and function that can be work alone without connecting to extra controller; Support multiple verification mode such as Face, card, PIN code and more.

Dual cameras live face recognition & Anti-Spoofing Detection

Not only Single RGB Camera but also one more IR Camera;
Facial expression detection to truly achieve the live face recognition;
Access denied when using pictures, videos, fraud detection system.

Communication Redundancy

Support dual Communication Interface TCP/IP and RS485; When the main communication interface is abnormal and the secondary communication interface can run seamlessly, in which is suitable for occasions with extremely strict communication security requirements.

HTTP WEB Server Remote Management Interface

Remote Control via HTTP Browser whenever on PC or any brands Mobile phone.

2 sets of UART expansion interface

Flexible integration with Peripherals such as I/O Module, Lift controller, Display board and Infrared Thermometers.

Support Soyal serial overlay system structure

Adjustable Working Mode:
1. Single door control
2. Dual door control (Connect with WG reader)
3. Multi-door control (Connect with Multi-door control panel)

Multiple language menu setting

User-friendly menu setting: the user can follow menu to set up parameters and functions instead of remembering setting commands.

Features

Double Relay | Door Bell | Complete Indicator | Face recognition | Two Doors Control | Suitable for Extended Function

Web

- RS-485 and TCP/IP communication interface
- Built-in Watch Dog to prevent the halting, Ingress Protection, Built-in set of Alarm, Holiday setting, auto-open zone settings, Auto-Open Zone editable, input of door contact, offering the alarm system of both door opening too long and beingforced to open
- User capacity：16,000 / 32,000 / 65,000
- Lift Contro: 64 floors/32 floors/16 floors
- Data reduancy while system disconnected, identify users and store event log up to 32000 records
- Access Mode: Face only, Card only, PIN only, Card and PIN , Face and PIN , Face and Card and PIN
- 2 Exit Switch, Door Contact and Door Output to wiegand Built-in Multi-Output: Door Lock / Alarm / Arming / Duress / Security trigger signal
- 125kHz and 13.56MHz can be used simultaneously two channelsIntelligent to shift for standalone or networking mode while system disconnected
- Support SOYAL SECURITY COMMUNICATION encryption (SSC) to enchance security of communication
- Capacitor Door Bell Button: Built-in independent capacitor doorbell button and doorbell output, which can be used with various types of door bells for visitors.

SPECIFICATION

Frequency	125kHz: / 13.56MHz / Dual Band (125kHz & 13.56MHz) 125kHz: ISO18000-2: EM4001 and EM4095 compatible 13.56MHz: ISO14443/ISO 7816-4 Mifare Ultralight, Classic, Plus / DESFire EV1, EV2 / NFC (card simulation) / ISO15693 / Felica	
UID Bits	24~64 Bit (Adjustable)	
RF Reading Range	125kHz: 5-15 cm ；13.56MHz: 2-5 cm；Dual Band: 2-15 cm	
Crypto	13.56MHz / Dual Band : CC Certification: AES Crypto comply with EAL5+	
Communication interface	Host	RS-485 (9600 bps) / TCP/IP (Optional By Order) / POE (Optional By Order) / SSC (Soyal Security Communication)
	Serial	TTL UART (4800~115200 bps) X1 (half-duplex)
	Wiegand Input	Wiegand 26~64
	Wiegand Output	Wiegand Data 0, Data 1 and Arming Output, Duress Output share the same terminal
DI/DO	DI	Egress X2 / Door Status X2
	Relay ouput	Door Lock Relay / Alarm Relay
	Open Collect Output	Arming Output / Security trigger signal / Duress Output / Alarm Output / Wiegand Port open door
Doors	2	
User Capacity / Floors Number	16,000 Users/64 Floors (Default value)；32,000 Users/32 Floors；65,000 Users/16 Floors	
Event Log	32,000	
Power Voltage	9-24VDC	
Power Consumption	<5W	
Indicator	6 LED (Green/ Red)；Buzzer: 1	
TAMPER	Limit switch (1 Form C/ 1000mA / 30VDC)	
LCD Panel	128*64 (4 line messages, 16 Characters each line)	
Housing Material	ABS	
Color	Edge: Black / Silver	
Keypad	Iluminated Rubber	
Dimension (mm)	128(H)X147(W)X60(D)	
Net Weight(g)	approx. 340	
Ingress Protection	IP65	
Environment	Operating Temperature: -20℃ ~ +70℃ / Storage Temperature: -40℃ to +75℃ / Operating Humidity: 0%~90% (non-condensing) / Storage Humidity: 0%~95% (non-condensing)	

Face Recognition Specifications

Verification Speed	1:3000 < 3.0 Sec
Face Capacity	3000
Image Screen	2.8 TFT LCD Screen (320*240)
LCD Screen for Programming	128*64 Menu LCD Screen
Camera	RGB(640*480) + IR(640*480)
Assistant Exposure Light	White LED / IR high brightless LED
FAR (False Accept Rate)	≦0.0001%
FRR (False Rejection Rate)	≦0.4%
TAR (True Accept Rate)	≧ 99.6%

WHAT WE OFFER

Double Door Control

Connected with Reader, it can manage 2 access control by a signle unit AR-327-E. The second set of access control also has the exit switch, door contact status and door output control, can also set different access level (such as - can access Door A but can not access Door B).

Real-time event log integration

After reading card, IP-based controller AR-837-E/EE will actively send the event logs through port 8031 for the integration with the 3rd party program.

Auto-Schedule

AR-837-E/EE special firmware connect with DO module AR-401RO16B, using Lift Control program enabling you to control each Digital Output and formulate a time schedule for each output, up to 64 . It's suitable for each various switching devices, such as lighting, sprinkler system, air conditioning, etc.

Auto-Open

The Wiegand reader Auto-Open time zone setting to control the infrared activation function / output the second set of door contact functions at a specific time.

Auto-Alarm

Built-in 16 sets of Alarm to output flash light, alarm clock, broadcast system, and each set of Alarm can set the output time.

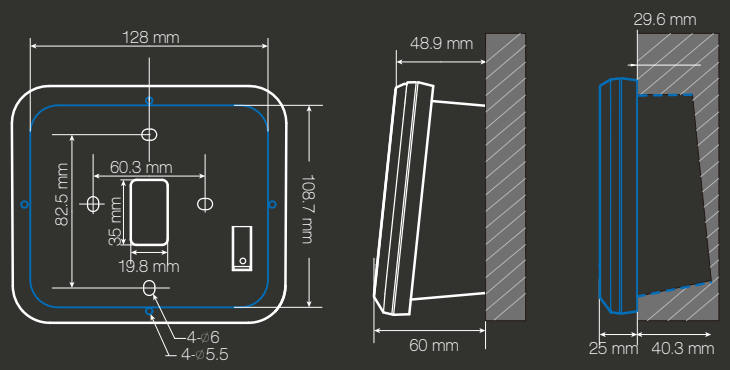
With 2 sets of UART port

It can be applied to:
(1) 256-point Mailbox Management System
(2) Auto-scheduling control function-64-point DO control
(3) Printer integration
(4) Voice module (AR-721V-V2)

Reader Mode Supported

AR-837-E/EE controller can also be set to Reader mode, with Wiegand output that can be integrated with various brands of controllers, with a dual-band format that turns into Wiegand dual-band Reader.

INSTALLATION(mm)



- Surface mounting hole(Front View)
- Flush mounting hole(Front View)
- Surface mounting hole (Side view)
- Flush mounting hole (Side view)

HOW TO ORDER

AR-837-EAXR1X11-X

Frequency
B=125kHz
D=13.56MHz
S=125KHz+13.56MHz

RTC
R=Built-in RTC

Communication
1=RS485

Waterproof
1=Weatherproof

Additional Module
A=TCP/IP Module
P=POE Features

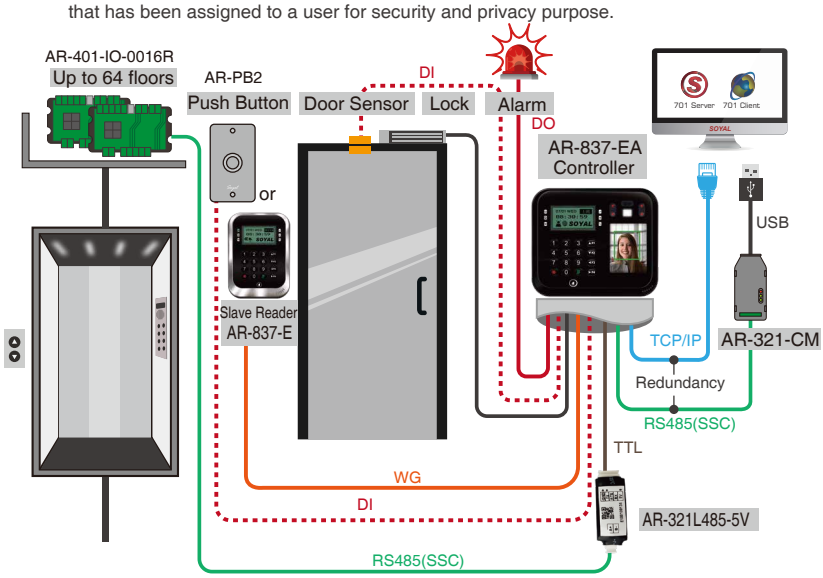
Language(LCD)
1=English/Chinese

Color
B=Black Edge
1=Silver Edge

APPLICATION & STRUCTURE DIAGRAM

ACCESS & LIFT CONTROL

Anti Passback: restrict user to re-enter before exiting venue or increase security level by having access reader at the other side of the door. Both entering and exiting will required swipe card or keyfob for access.
AR-837-EA can detect abnormal event with the door contact status in arming mode. When a forced entry or door opening too long, an alarm is generated and sent to the software, AR-837-EA alarm output can be equipped with a flash buzzer as warning on site.
Lift Floor Control: Authorize user access via AR-837EA face recognition technology for a touchless and tag-free access, at the same time give access to particular floors that has been assigned to a user for security and privacy purpose.



--Face ID Capacity: 3,000/ User Capacity:16,000 / 32,000 / 65,000--

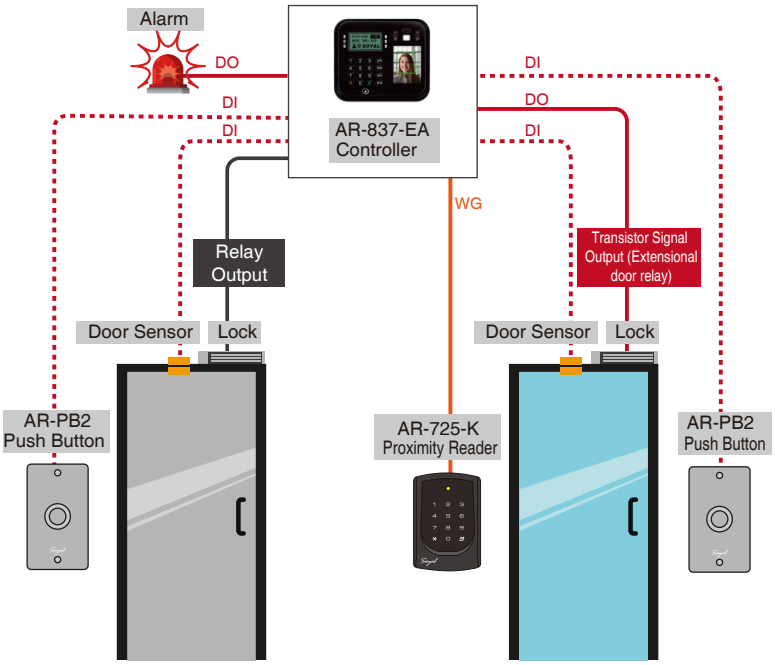
BUILT-IN HTTP WEB SERVER

IP-Based Controller has built-in HTTP WEB Server for Access Control, just input IP address, have it logged in to remotely control a single controller, enabling adding User card, time zone setting, review event logs, etc, even more can remotely open/close door regardless the brand of computer and smart phone. As long as there is a WEB browser, the remote management function can be achieved.

Remote setting by computer, Pad, Smartphone

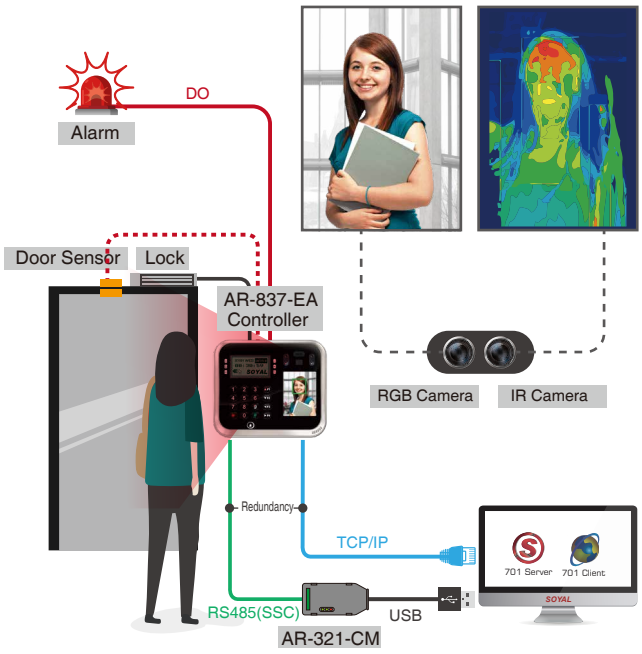
DUAL-DOOR CONTROL ON ENTERPRISE E SERIES CONTROLLER AND WIEGAND READER

SOYAL Enterprise E series controller supports dual-door control; Connecting one Wiegand reader to E controller, it can not only manage the entry and exit on the same door with Anti-pass back function and but also manage two different doors through independent access level setting (for example, access on Door A but access denied on Door B)



DUAL CAMERAS LIVE FACE RECOGNITION & ANTI-SPOOFING DETECTION

AR-837-EA is suitable for installation at the office door for access control and time & attendance. It is not only built-in Single RGB Camera but also built-in one more IR Camera that support Facial expression detection to truly achieve the live face recognition; this application can really implement non-contact epidemic prevention.



PERIPHERALS / ACCESSORIES

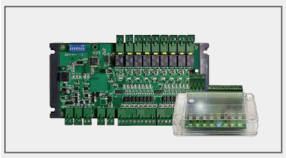
HIGH LEVEL SECURITY

- Anti-Cloning Kits

Mifare Encryption
Encoder: AR-725-P
Authorization Tags
Software: Mifare Key

Desfire Encryption
Encoder: AR-837-P
Authorization Tags
Software: 323D Master

- Expansion I/O Control



I/O Modules
AR-401 Series: Multiple Channel I/O Module
AR-403 Series: Tiny Digital I/O Module

AR-837-EA

NETWORKING

- Software

File Based & Data Based Interchangeable Software for Access Control, Time Attendance,Status Monitoring and Configuration
701ServerSQL & 701ClientSQL

Firmware Upgrade
UdpUpdater

Remote Lift Control and Time Table Setting
LiftControl

- Signal/Interface Converter

POE Module
AR-MDL-RJ45-POE-12V12W

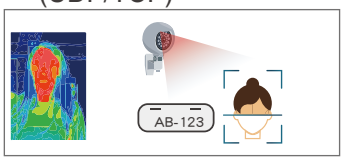
Isolated USB to RS-485
AR-321-CM
Isolated RS232 to RS-485 Converter
AR-321-CM-485232

Ethernet to RS485
AR-727-CM
AR-727-CM-IO-0804M
(with I/O for Fire Alarm to open all doors)

- Multi-Door AntiPassback

Multi-Door Control Series
AR-716-E16: 16 Doors IP Control Panel
AR-716-E18: 18 Doors IP Control Panel

- Extensive Applications (UDP/TCP)

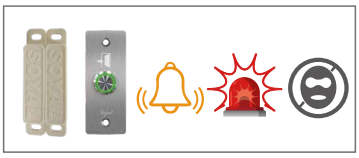


Infrared Thermo-Camera, LPR (License Plate Recognition)

STANDALONE

- Input/Output

Locks
Magnetic Lock
AR-0600M
Electric Bolt Lock
AR-1207 Series
Cabinet Lock
AR-1211-P/AR-1213-P
Electric Strike
AR-YS-130NO/AR-YS-131NO

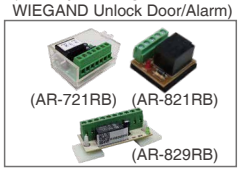


Door Sensor / Push Button / Door Bell / Alarm / Burglary Security System

- Illuminate Series

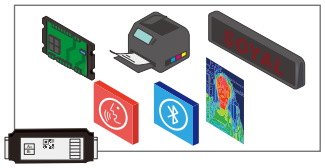
Proximity Reader
AR-725-K
Proximity Reader
AR-725-U

- External Relay Output
(Security / Arming / Duress / WIEGAND Unlock Door/Alarm)



1 Form C relay with time delay
AR-721RB
1 Form C relay
AR-821RB
2 Forcm C relay
AR-829RB

- UART Port x 2



Lift Control / I/O Module / Printer / LED display / Voice Module / Bluetooth Module / Infrared Thermo-Camera

- Programming
- Necessary

Keyless Editing
Self programmed master card

Power Supply
BP-W12-1500 (1.5A)
BP-W15-2400 (2.4A)

Proximity Tags
125kHz: EM
13.56MHz: Mifare Classic, Mifare Plus, Mifare Desfire, UltraLight
Tags Selection: Thin Card, Round Keyfob, Square Keyfob

FAQ

Q: What is the difference betweeen SOYAL Home Series and Enterprise Series Controller?

A: SOYAL access controller classified into two categories in term of specification; Home Series and Enterprise Series. SOYAL Home Series controller has already include all basic standalone and networking access controller that you need. But E series controller provide what Home Series controller has already have, and more advanced features like built in more user capacity, UART Port for extension module, and extension interface like Ethernet and POE.

Q: How to replace LCD display pictures in standby mode for SOYAL Enterprise Series controller?

A: E series LCD controllers can replace the pictures displayed in standby mode through a software tool, and can design the drawing file according to your needs, such as the company logo or building image, etc., which can improve the overall image.

◀ Scan QR cod to view

More FAQ

RoHS Compliant