ACS-QR300 QR Code Ticket Controller

Content

1. Introduction

ACS-QR300 multifunctional all-in-one machine is a product specially developed for the access control field. It uses transparent transmission or protocol mode to interact with access control management software to achieve intelligent linkage, and can cover various scenarios such as access control, channel gates, self-service equipment, and elevators.

ACS-QR300 uses a 3.33-inch IPS high-definition screen with an ultra-thin design and supports horizontal and vertical screen installation. It is suitable for various scenarios such as 86-box installation and turnstile gate installation. It supports multiple authentication methods such as qr code, Mifare, NFC, and PSAM card.

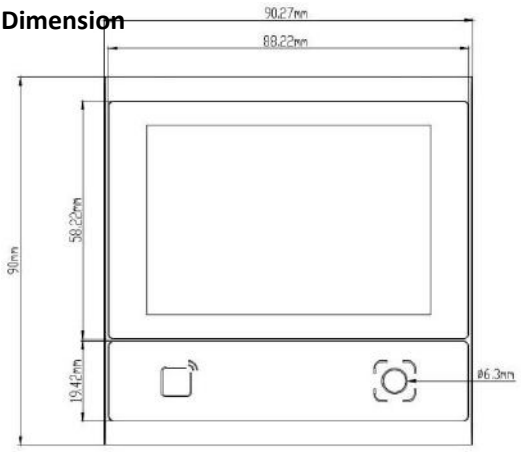
Support 100M adaptive network port, relay interface, exit switch signal input, can be directly connected to the network and combined with other necessary access control components to achieve access control functions

It is designed with multiple protection mechanisms such as software dogs and hardware dogs to prevent crashes and make the equipment run more reliably.

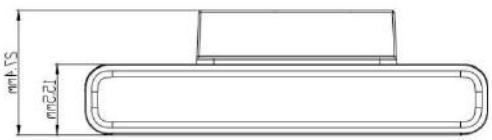
2. Product features

1. Barcode, QR code, Mifare, NFC, PSAM card and other authentication methods are all in one.
2. Fast reading speed, high precision, the fastest reading speed can reach 0.1 seconds.
3. Intuitive display of ticket verification information, supporting multiple languages.
4. The voice broadcast of ticket inspection results supports custom recorded voice broadcast.
5. Simple operation, combined with user-friendly tools, make equipment debugging more convenient.
6. It can be connected to any third-party ticketing system without modifying the code.
7. TCP/IP communication.
8. SDK provided support secondary development.
9. Built-In relay, support open gate.
10. Support scan QR code, NFC, 13.56Mhz RFID card.

3. Dimension



Font view



Side view

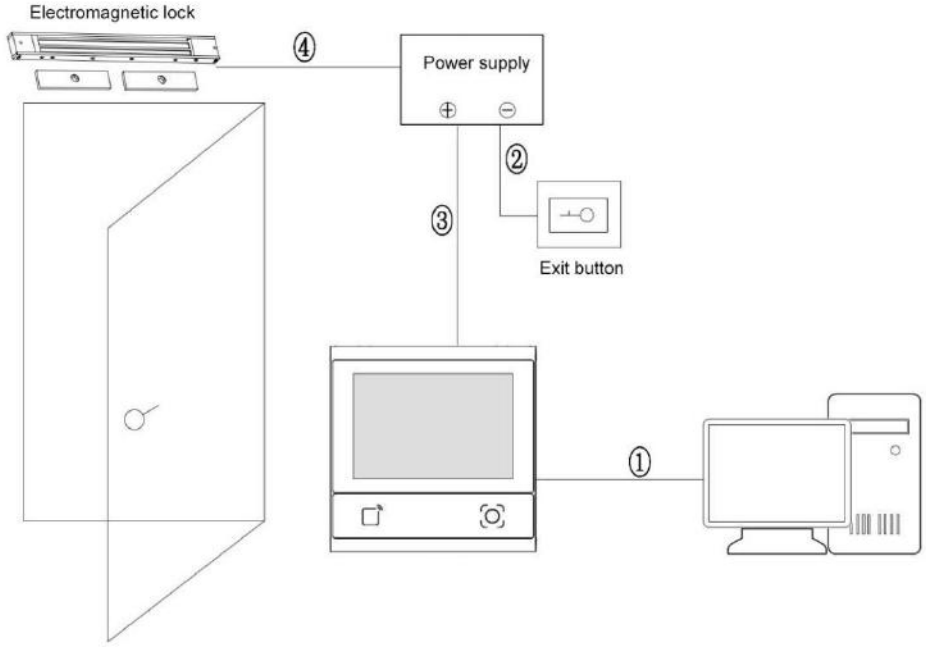
4. Specification

General Parameter	
Output interface	Ethernet
Access control Interface	Relay output, exit button
Indicator method	Display, buzzer, voice
Image sensor	480,000-pixel CMOS image sensor
Maximum resolution	800*600
OS	Linux
Window material	tempering glass
Display size	3.33 inch
Speaker decibel	71 dB, 1 m away from the speaker
QR code recognition parameter	
Identification code system	QR、PDF417、CODE128、EAN13、 EAN18
Supported decoding	Screen code
Reading distance	15mil QR: 30.9~130.4mm (in dark room, cell phone brightness 100)
Reading accuracy	≥8mil
Reading speed	100ms per time(average), support reading continuously
Read the Angle	Center tilt angle: 46.2°; center deflection angle: 43.2°
FOV	Horizontal: 65.3°; vertical: 55.8°; field 79.5°
RFID reading parameter	
Supported cards	ISO 14443A, ISO 14443B protocol cards
Reading method	Physical UID, M1 card sector read and write, CPU card file read and write
Working frequency	13.56MHz
Reading distance	M1 card 38mm; drip card 21mm
PSAM card	
Protocol	ISO7816-1/2/3, support T=0
Electric Parameter	
Working voltage	DC9V-15V
Working current	293mA(12V typical value)
Power consumption	3.52W(12V typical value)
Relay	30V/1A DC
Work environment parameter	
ESD protection	±15kV(Air discharge),±4kV(contact discharge)
Working temp	-20° C-70° C
Storge temp	-40° C-80° C
RH	5%-95% （No condensation） （environment temperature）
Ambient light	0-80000Lux(Non direct sunlight)

5. Access control application

5.1. Access control door lock

ACS-QR300 connects to the server through the network to realize online verification.



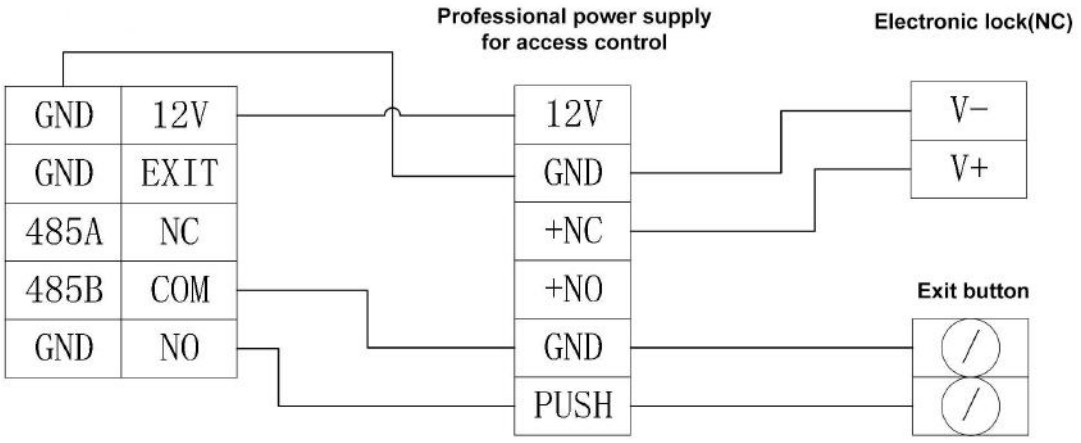
① The device connects the server management software

② The exit switch is connected to a professional access control power supply to realize indoor pressing to open the door

③ The equipment is connected to the professional access control power supply

④ The electric lock is connected to a professional access control power supply, and the door lock will open after passing the authority verification of the passer-by

Wiring



5.2. Turnstile gate embedded

6. Precautions

1. The device can support 9-15V power supply, the typical value is 12V, it can be powered from the access control power supply, or it can be powered independently. Excessive voltage may cause the device not to work properly, or even damage the device.

2. Do not disassemble the device without authorization, otherwise the device may be damaged.

3. It is necessary to ensure that there is a good network environment, otherwise it may cause inability to communicate with the server.

4. The installation position of the access control code scanner should avoid direct sunlight as much as possible. Otherwise, the scanning effect may be affected. The reading panel of the scanner must be kept clean, otherwise it may affect the normal image acquisition of the scanner. Metal around the scanner may interfere with the RFID magnetic field and affect card swiping.

5. The wiring of the access control scanner equipment should be firm and reliable. And the insulation between the wire and the wire must be ensured to prevent short circuit from burning out the equipment.

6. The output of the access control scanner is a switch signal. In the access control scene, it can be connected to the original access control system according to the normally open or normally closed connection method of the original access control system.