# RD008 Round 2D IC Card Access Control Machine



Model：RD008

## <mark>Main Features</mark>

1. Embedded multi-tasking real-time operating system, the system can be fully started in 3 seconds.

2. Single door network access control + QR code scanning head  +IC card reader triple product. Make the on-site installation and maintenance simple and cost-effective.

3.  The product comes with a voice amplifier and speaker. The voice for common entry and exit events can be set. The network can control nearly 150 voices and can customize the voice.

4.  Encrypted QR code that complies with the agreed rules can be opened / opened directly when not connected to the Internet.

The agreed rules mainly include:
(1) the start time and end time of the two-dimensional code valid;

(2) the number of times the two-dimensional code is valid and exceeds the number of uses, the two-dimensional code can no longer be used;

(3) equipment MAC matching or project number building number Match, a QR code can contain one or more device numbers, which can be legally valid on multiple devices;

(4) The encryption key of the QR code can be modified without leaving any backdoors or loopholes to ensure the security of the QR code.

5.  Common parameters such as network IP parameters, lock delay, Wiegand

26/34, etc. can be set directly through the QR code, making site commissioning easier

6. Equipment capacity: 35,000 cards, 50,000 records, 100,000 QR codes, and records and QR codes exceeding the capacity will be automatically covered.

7. The product adopts the battery-free clock holding circuit, without batteries, eliminating the need to replace the battery regularly, and the trouble of express delivery.

8. The product adopts data storage and ferroelectric storage. Even if the device is suddenly powered off, the stored data will not be lost, ensuring data security and reliability.

9. The product can read ISO14443A type card serial number or sector content, such as M1 card

10. The network transmission standard is RJ45 10 / 100M TCP / IP transmission, which can be extended WIFI transmission or mobile phone Bluetooth transmission

11. Supports TCP / IP networking connection across gateways and network segments, and direct-connected network cables and cross-network cable controllers can automatically adapt

12. Built-in dual hardware anti-crash watchdog, even if the chip runs abnormally, it can be recovered in time without affecting the use.

13. Support TCP / IP remote IAP upgrade. If there is a change in requirements, after modifying the program, it can be completed directly through the network upgrade.

14. The WIFI module can be extended to enable the two-dimensional code to be transmitted over the wireless network through WIFI. The WIFI module supports AP and STA dual modes.

15. The Bluetooth module can be extended to enable the product to communicate with the mobile phone's Bluetooth. Achieve functions such as shaking the door.

16. Integration of the development kit with the DEMO language: JAVA, C #, C ++, etc.

1. Image sensor: 752X480;

2. Identification lighting: white LED

3. Two-dimensional code recognition: 2D PDF417, QR CODE, DATA MATRIX, support mobile phone mirror recognition and paper two-dimensional code recognition

4. One-dimensional code recognition: CODE 128, UCC / EAN-128, AIM-128, EAN-8, etc .;

5. Identification distance: 10-55mm;

6. 6.Identification angle: 360 degrees full angle

**Display Components:**

1. 1.8 "TFT true color screen

2.128 * 160 resolution

3.Display area: 28mmX35mm

**The Equipment Input and Output Parameters**

1. Power input: 9-18VDC

2. Working current: <600mA

3readable ISO14443A type card serial number, or custom read sector content

4. Barcode or QR code scanning input

5. Wigan 34/26 output, output IC card card number (common reading function) and associated card number output in accordance with QR code reservation rules

6. Communication interface: RJ45 10 / 100M TCP / IP, expandable wireless WIFI, Bluetooth

7. Communication protocol: Support TCP / UDP / HTTP

8. Voice output: comes with voice, power amplifier and speaker output, nearly 150 kinds of voice output, customizable voice

9. Equipment input: 12V DC power input, 1 door magnetic input, 1 door button input, 1 alarm input

10.  Equipment output: 1 channel 3A relay output, 1 channel unlock, 1 channel expansion can control door opener, light, water valve, etc.

11. Wigan output: Wigan 26/34 output

## The Structure Size

Installation size: 110 mm diameter, thickness 25-34.62mm, compatible with standard 86 box installation size.

| RD008 Round 2D IC Card Access Control Machine | |
|---|---|
| **QR Code Scanning Component Parameters** | |
| Image Sensor | 752X480 |
| Light Source | White LED |
| Symbologies | 2D: PDF417, QR CODE, DATA MATRIX,Support Mobile Phone Mirror Recognition and Paper 2D Code Recognition |
| | 1D: CODE 128, UCC/EAN-128, AIM-128, EAN-8 etc. |
| Reading Distance | 10-55mm |
| Scan Angle | 360° Full Angle |
| **Display Components** | |
| Screen | 1.8 ”TFT true color screen |
| Resolution | 128 * 160 |
| Display Area | 28mmX35mm |
| **Input and Output Parameters** | |
| Power Input | 9-18VDC |
| Working Current | < 600mA |
| Can read like ISO14443Aor ISO14443B Card Serial Number | Such as Second-generation ID card, FM1208 CPU Card, M1 Card (Mifare S50, Mifare S70 IC card), SRIX4K, etc. |
| Barcode or 2D Code | Wiegand 26/34 output, output IC card number (common read |

| Input | head function) and associated card number output in compliance with QR code reservation rules |
|---|---|
| Communication Interface | RJ45 10/100M TCP/IP, Extensible Wireless WIFI, Bluetooth |
| Communication Protocol | Support TCP / UDP / HTTP |
| Voice output | comes with voice, amplifier and speaker output, nearly 150 kinds of voice output, customizable voice |
| Device Input | 12V DC power input, 1 door magnetic input, 1 door button input, 1 alarm input |
| Equipment output | 1 channel 3A relay output, 1 channel unlock, 1 channel expansion can control door opener, light, water valve, etc. |
| Wiegand output | Wiegand 26/34 output |
| **Dimensions** | |
| Installation size | 110mm * 25-34.62mm (L*H), Compatible with standard 86 box |