# ID IDENT 1500

# RFID and Barcode Reader

# (Ethernet)

# Contents

# Disclaimer

Before using the product, please read all the contents in this Product Manual carefully to ensure the safe and effective use of the product. Do not disassemble the product or tear up the seal on the device by yourself, or iDTRONIC will not be responsible for the warranty or replacement of the product.

The pictures in this manual are for reference only. If any individual pictures do not match the actual product, the actual product shall prevail. For the upgrade and update of this product, iDTRONIC reserves the right to modify the document at any time without notice.

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# 1. Preface

Thank you for using the ID IDENT 1500 (Ethernet) scanning equipment provided by iDTRONIC. Reading this document carefully can help you understand the functions and features of this device, and quickly master the use and installation of the device.

## 1.1. Product introduction

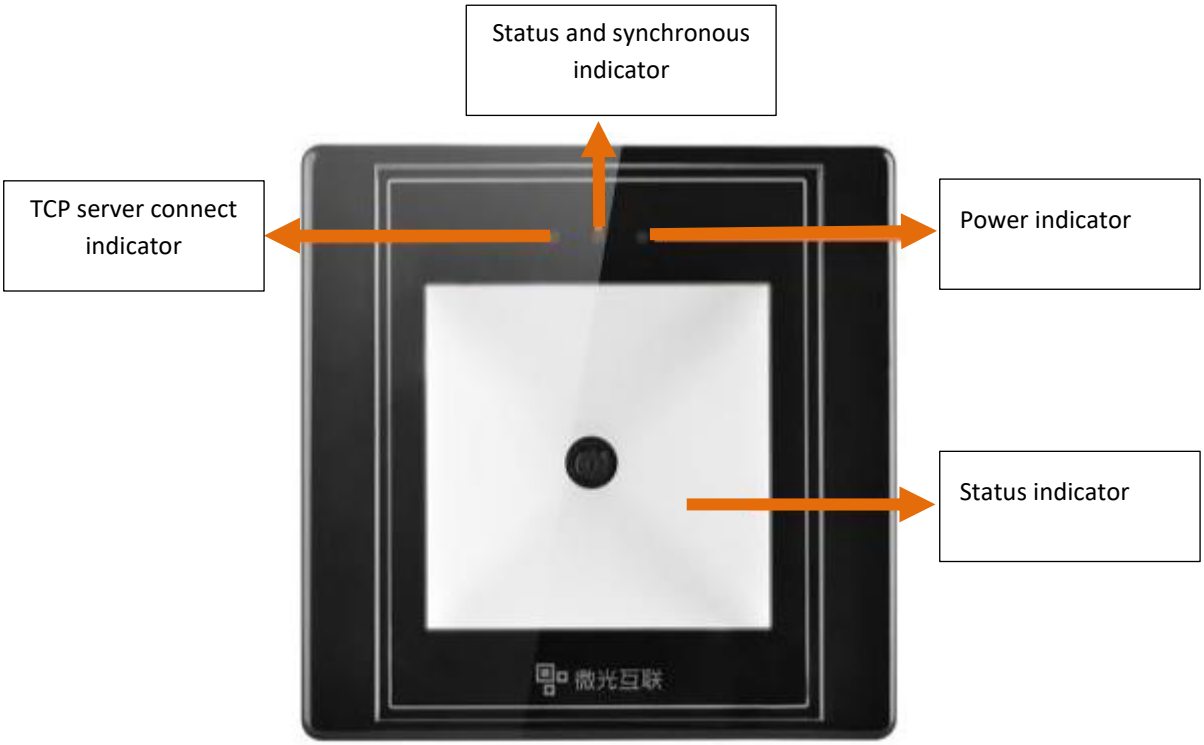
The ID IDENT 1500 (Ethernet) reader was a specially designed product for access control
It also support Ethernet output interface, with built-in relay module.

## 1.2. Product feature

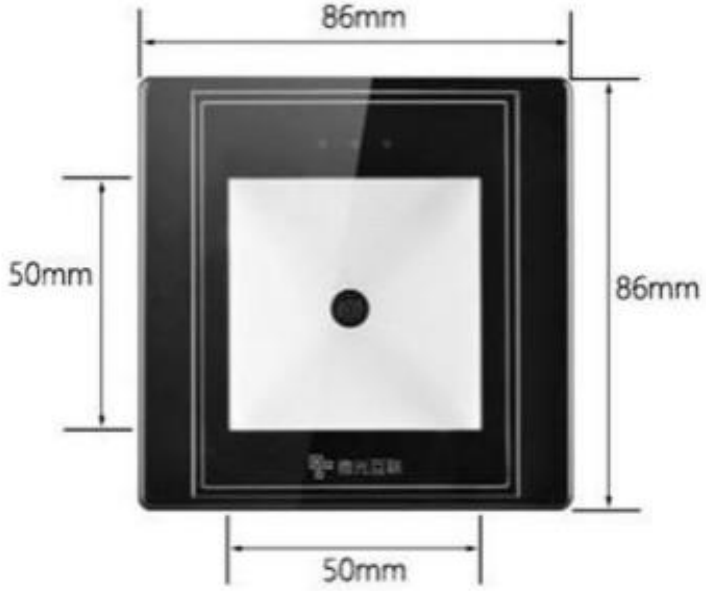
A. Scan QR/barcode & reading card all in one.
B. Fast recognition, high accuracy, can reach 0.1s the fastest.
C. Easy to operate, more easy to debug with the humanize tool.
D. Built-in relay module, can connect to the access system directly.

# 2. Product appearance

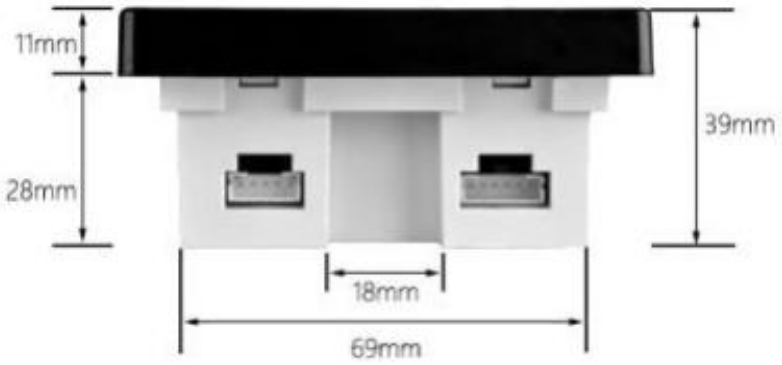
## 2.1. OVERALL INTRODUCTION



## 2.2. PRODUCT SIZE CHART




2.2.1 Front view



# 3. Product parameters

## 3.1. General parameter

| General parameter | |
|---|---|
| output interface | Ethernet, relay |
| indicating method | White, red, green light indicator<br>Beep |
| imaging sensor | 300,000 pixel CMOS sensor |
| max. resolution | 640*480 |
| supported operating systems | Windows (XP, 7, 8, 10) |
| installation method | Embedded installation |
| product dimensions | 86mm*86mm*39mm |
| recognition window size | 50mm*50mm |
| product material | Imported PC & tempered glass |

## 3.2. Recognition parameter

| QR code recognition parameter | |
|---|---|
| symbologies | QR, PDF417, CODE39, CODE93, CODE128, ISBN10, ITF,EAN13 etc |
| supported decoding | mobile phone screen/ printed barcodes |
| DOF | 0mm-100mm |
| reading accuracy | > 7mil |
| reading speed | 30ms per time (average), support reading continuously |
| reading direction | 360 degree |
| FOV | Horizontal Field: 70 degree, Vertical field: 50 degree |

| RFID parameter | |
|---|---|
| type | ISO 14443A,ISO 14443B protocol |
| operation method | read UID, read the sector of M1 card |
| frequency | 13.56 Mhz |
| distance | < 5cm |

## 3.3. Electric parameter

The power input can be provided only when the device is connected properly. If the device is plugged in or unplugged while the cable is live (hot plugging), its electronic components will be damaged. Make sure that the power is turned off when plugging and unplugging the cable.
Poor power supply, too short interval power off and on operation may cause the device cannot work in a stable and normal status. It is necessary to keep the power input stable. After turning off the power input, it need to takes more than 2 seconds to turn on the power input again.

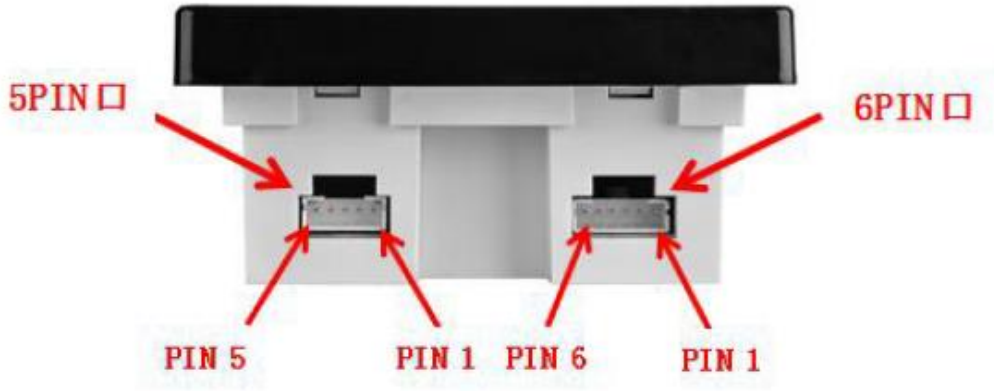
| Electric parameter | |
|---|---|
| working voltage | DC 9 – 15V |
| working current | 80mA (12V typical value) |
| power consumption | 960mWW (12V typical value) |
| relay | DC 30V/1A |

## 3.4. Work environment

| work environment parameter | |
|---|---|
| ESD protection | Contact discharge 4KV（interface part） |
| working temperature | -20°C - 70°C |
| storage temperature | -20°C - 70°C |
| relative humidity | 5% - 95%  (no condensation, environment temperature 30℃) |
| ambient light | 0-80000Lux (Non direct sunlight) |

# 4. Interface definition

MET has two interfaces, 5pin interface and 6pin interface




MET 5pin output interface definition:

| Pin Nr. | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|
| Pin colour | red | white | blue | black | black |
| Definition | VCC | DATA - | DATA + | GND | NC |

MET 6pin output interface definition:

| Pin Nr. | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|
| Pin colour | blue | brown | red | black | yellow | purple |
| Definition | TX - | TX + | RX - | RX + | COM | NO |

Note: The MET Ethernet model directly leads four network cable pins, and can be connected to four of the standard eight-core network cables according to the colour
The network cable uses the 568B type connection method.
Refer to the table below and connect the cables according to colour.

MET 6pin output interface and network cable connection instruction:

| MET 6-pin wiring colour | blue | brown | red | black |
|---|---|---|---|---|
| Network cable colour | orange | orange-white | green | green-white |

# 5. Device configuration

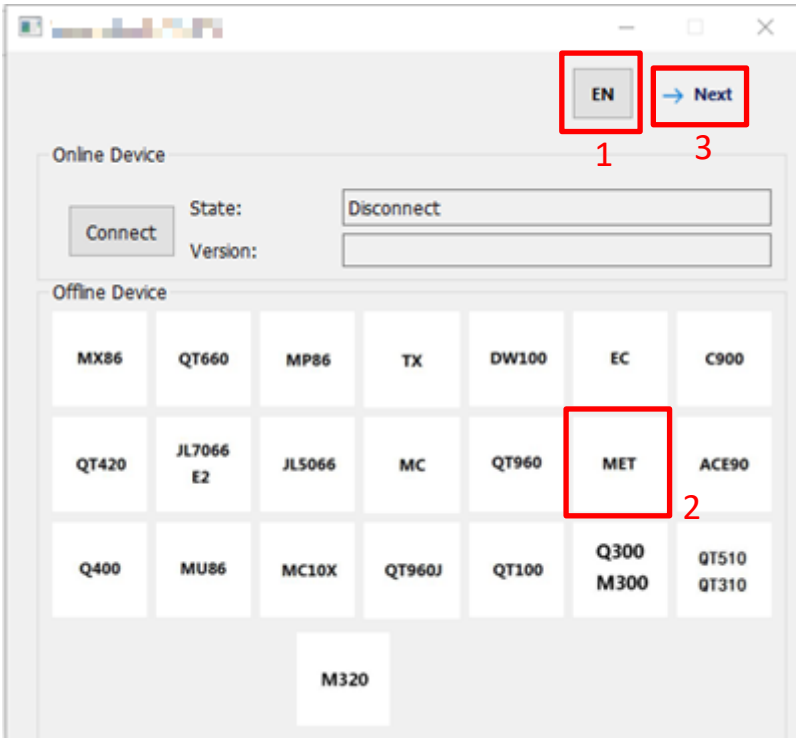
Use the IDENTconfig tool to configure the device, which can be download from our official website

IDENTconfigv2.3.17.exe

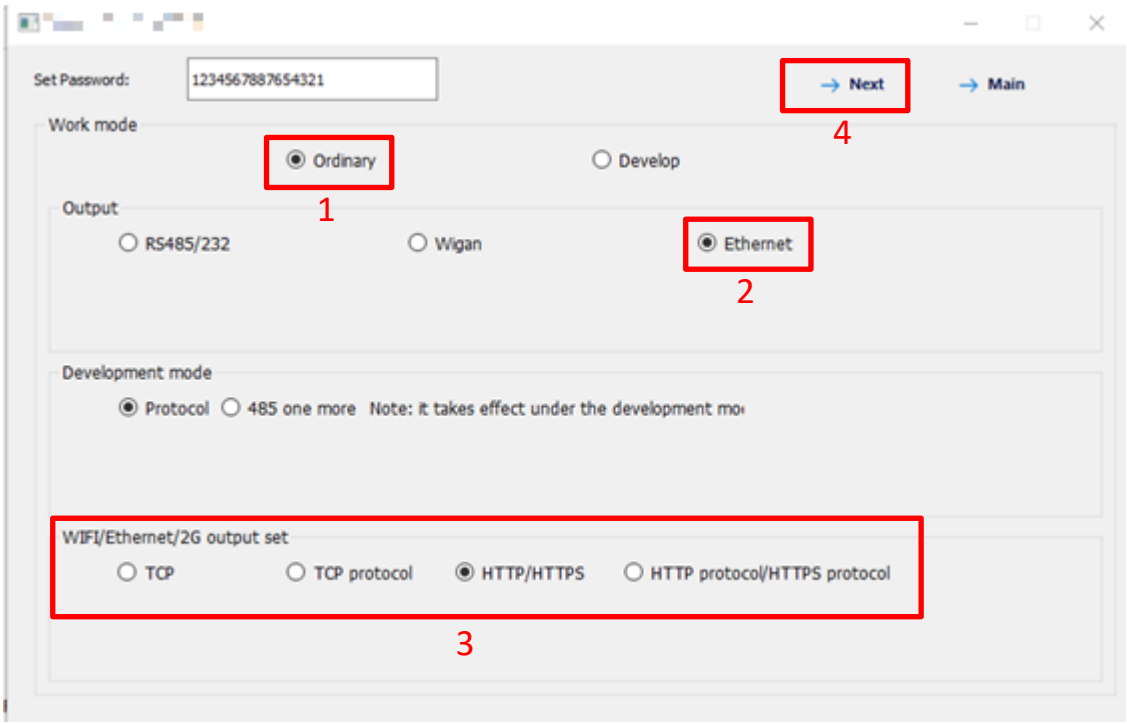
(For more information about the configuration tool, please refer to the IDENTconfig user manual).

Configure the server address as the step shows:

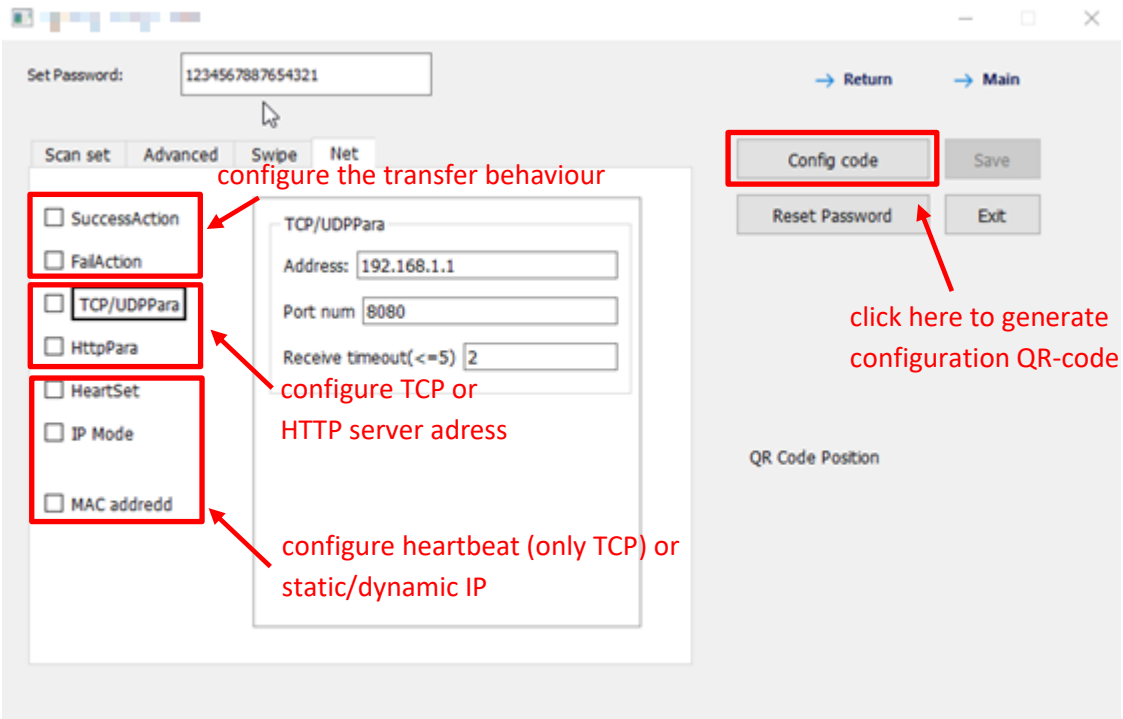
Step 1: select language and device



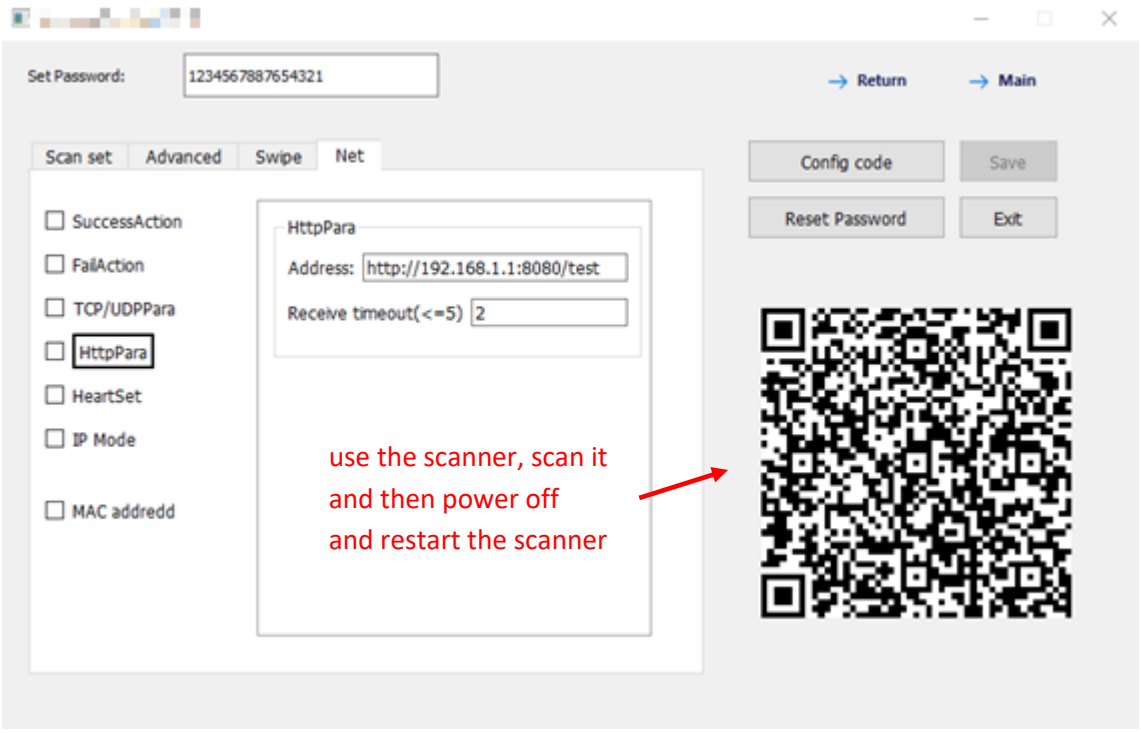
Step 2: select output method




Step 3: configure the server address and the transfer action.

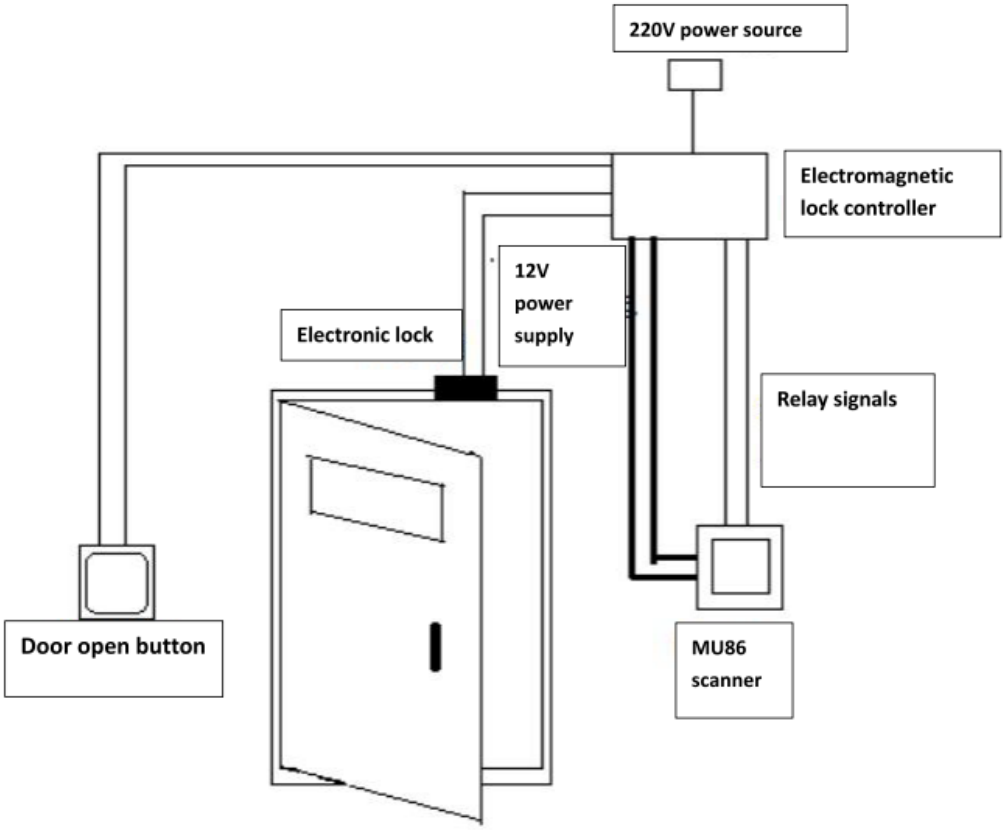


Step 4: use the device to scan the config QR code

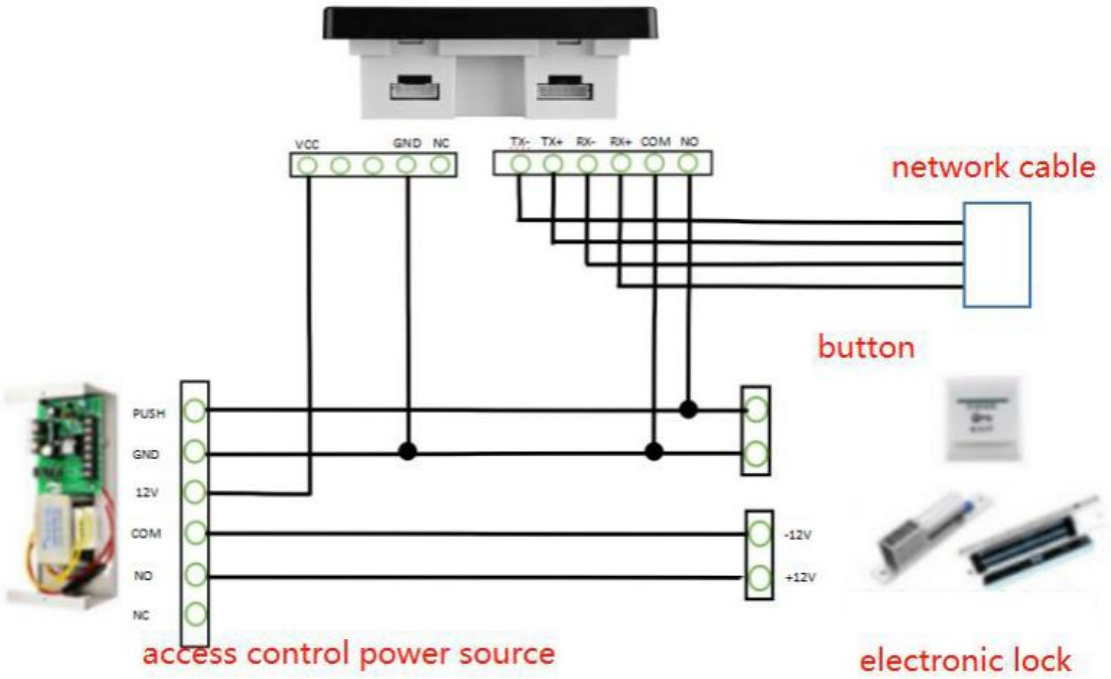


# 6. Access scenario application

## 6.1. Using scenario diagram



## 6.2. Access control system wiring diagram



# 8. FAQ

## The device cannot connect to the configuration tool.

- When configuring the scanner, please scan the config QR code to config, which means use the config tool to generate the config QR code, and then use the scanner to scan it. (need to power off and restart)

## After the device was configured successfully, scan QR code didn't request upload to the server.

- Please check if the networking was success, can configure the scanner to static IP, and then 'ping' the scanner, to see if it works. If not, check the network connection.
- If the network was normal but still do not have request upload, you may refer to the ID IDENT QR code scanner protocol V2.10, and then debugging the server interface.

## The server can receive the request but didn't parse the data.

The scanner upload the character string data, it was text formatting data but not JSON data, parse the data as JSON data will not success.

## After the server returned "code =0000",the scanner didn't output relay signal.

- Please check if you have select the "relay control" in the "success action" part in the IDENTconfig tool.
- Make sure you selected TCP or HTTP or HTTPS in the output set, only in these methods the scanner will return "code=0000".
- The returned "code=0000" was testing formatting, but not JSON data.

## When powered the scanner on, it start normally, but scan the config QR code didn't have response.

- There may be something wrong with the device, please consult our technicians.

# 9. Contact info

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