

# **User Manual**

## QR50

Date: May 2021 Doc Version: 1.0 English

> Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.



For further details, please visit our Company's website <u>www.zkteco.com</u>.

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#### **ZKTeco Headquarters**

| Address | ZKTeco Industrial Park, No. 32, Industrial Road, |
|---------|--|
|         | Tangxia Town, Dongguan, China.                   |
| Phone   | +86 769 - 82109991                               |
| Fax     | +86 755 - 89602394                               |

For business related queries, please write to us at: sales@zkteco.com.

To know more about our global branches, visit <u>www.zkteco.com</u>.

## About the Company

ZKTeco is one of the world's largest manufacturer of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-reader Door Locks. Our security solutions are multi-lingual and localized in over 18 different languages. At the ZKTeco state-of-the-art 700,000 square foot ISO9001-certified manufacturing facility, we control manufacturing, product design, component assembly, and logistics/shipping, all under one roof.

The founders of ZKTeco have been determined for independent research and development of biometric verification procedures and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years of experience in the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally leading enterprises in the biometric verification industry owning various patents and being selected as the National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

## About the Manual

This manual introduces the operations of QR50 Product.

All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.

## **Document Conventions**

#### Conventions used in this manual are listed below:

#### **GUI** Conventions

|            | For Software  |  |  |  |  |
|------------|---|--|--|--|--|
| Convention | Description   |  |  |  |  |
| Bold font  | Used to identify software interface names e.g. OK, Confirm, Cancel  |  |  |  |  |
| >          | Multi-level menus are separated by these brackets. For example, File > Create > Folder.                                     |  |  |  |  |
|            | For Device  |  |  |  |  |
| Convention | Description   |  |  |  |  |
| <>         | Button or key names for devices. For example, press <ok></ok>   |  |  |  |  |
| []         | Window names, menu items, data table, and field names are inside square brackets. For example, pop up the [New User] window |  |  |  |  |
| /          | Multi-level menus are separat <mark>ed by</mark> forwarding slashes. For example,<br>[File/Create/Folder].                  |  |  |  |  |

#### Symbols

| Convention       | Description  |
|------------------|--|
|                  | This implies about the notice or pays attention to, in the manual                      |
| ₩ <mark>₽</mark> | The general information which helps in performing the operations faster                |
| *                | The information which is significant   |
| <b>e</b>         | Care taken to avoid danger or mistakes   |
|                  | The statement or event that warns of something or that serves as a cautionary example. |

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## 1 Equipment Installation

Installation precautions: In order to ensure the normal use of the equipment, please strictly follow the installation instructions.



## 2 **Product Introduction**

The QR50-QR code Reader is a new generation of intelligent access control card reader developed by our company. The product has a high-end appearance, high scanning speed, high recognition rate, strong compatibility, and can be connected to any access controller that supports Wiegand input. The reader adapts to various application scenarios and supports the identification of RFID radio frequency cards and QR codes, which can be applied in community management, visitor management, hotel management, unmanned supermarkets, and other fields.

The characteristics of the QR code reader are as follows:

- New QR code access control technology development.
- Comes with a card reader antenna and working frequency are 125KHz or 13.56MHz.
- Support ID Cards or IC Cards, which includes Ultralight, Mifare (S50/S70), CPU, NFC (analog Card), Desfire EV1, NTag, QR Code.
- Support Wiegand, RS485, USB(Upgrade Use).

## 3 Wiring Instructions

## 3.1 Wiring Definition



From left to right (based on the image above):

| DC(+12V) | GND    | 485+     | 485-     | WGO    | WG1     | NO | СОМ | NC | Config |
|----------|--------|----------|----------|--------|---------|----|-----|----|--------|
| Power    | Ground | RS485 lı | nterface | WG Int | terface | /  | /   | /  | /      |

## 3.2 Instructions

Please connect the device to other equipment according to the wiring definition of the QR code reader. In addition, the following only refers to the partial wiring of the QR code reader and the controller. It does not represent all wiring definitions of the controller. Please refer to the actual controller wiring definition.

## 3.2.1 Wiegand or RS485 Communication

1. First, connect the QR code and card reader to the controller via Wiegand or RS485 and then connect it the +12V power supply.

The QR code reader does not need to be connected to the lock body when it is used as a reader. The controller in the figure only lists some of the wirings, and there are many kinds of connections between the machines. Wiegand or RS485 common connection reference as shown below:

#### **RS485 Connection Mode**



#### **Wiegand Connection Mode**



2. Then, place a card or QR code (paper, electronic, mobile phone) within the reader's recognition range, the card reader will automatically obtain and transmit the information carried by the card or QR code to the controller.

#### 3.2.2 USB Communication

1. First, connect the QR code and card reader to the PC terminal through the USB cable.

# QR Code Reader Side Interface

2. Then, enable "**HID Keyboard**" on the DEMO software setting interface, place a card or QR code (paper, electronic, mobile phone) within the reader's recognition range, the card reader will automatically obtain the information carried by the card or QR code and transmit it to the PC, which can be demonstrated by text.

Note: The USB port is for upgrade use only.

## 4 Set up the QR Code Reader with DEMO Software

This section describes how to configure the QR code and card reader through the DEMO software.

## 4.1 Configuration

1. Connect the reader to the computer with a USB cable, open the Demo software, select the USB-HID port, and click OK. (Note: If a serial connection is selected, the baud rate is 115200 by default.)

**Note:** Support connecting configuration tools via USB and serial ports.

- USB: Connection to the configuration tool by means of USB communication.
- COM: Connection to the configuration tool by means of RS485 communication.

| ■税■<br>電陥■ QR50&QR500 Configuration Demo | - | × |
|--|---|---|
| 1. Connect device                        |   |   |
| 💭 USB                                    | Ŧ |   |
| ⊜ 115200                                 | Ŧ |   |
| DisConnect                               |   |   |
| Firmware version: QR50_20210309_V1.07    |   |   |
| 2. Download configuration                |   |   |
| Set address                              |   |   |
| 1.                                       | - |   |
| Download                                 |   |   |
| Connect successful                       |   |   |

2. When the connection is successful, in the Download Configuration area below, click "Download".

|   | - | × |  |
|---|---|---|--|
| 1. Connect device                               |   |   |  |
| 💭 USB   | T |   |  |
| () 115200                                       |   |   |  |
| DisConnect                                      |   |   |  |
| Firmware version: QR50_20210309_V1.07           |   |   |  |
| 2. Download configuration                       |   |   |  |
| Set address                                     |   |   |  |
| 1.  | - |   |  |
| Downloading                                     |   |   |  |
| Please wait while downloading the configuration |   |   |  |

3. When it prompted "**Download configuration is complete!**", you can complete the QR code reader configuration in one click, easy to operate.

|         | 후 QR50&QR500 Configuration Demo 주     | - × |
|---------|---------------------------------------|-----|
|         | 1. Connect device                     |     |
|         | 💭 USB                                 | -   |
|         | ↓ 115200                              | -   |
|         | DisConnect                            |     |
|         | Firmware version: QR50_20210309_V1.07 |     |
|         | 2. Download configuration             |     |
|         | Set address                           |     |
| · · · · | Hint                                  | ×   |
|         | Download configuration is complete !  |     |
|         |                                       |     |

#### **Device Operation** 4.2

#### **Operation Steps:**

1. If the user needs to set the parameters of the QR code reader by themselves, open the Demo software, after successful connection, enter the advanced settings page in the top right corner of the page.

|   |  |         | ter advanced settings_QR50<br>ter advanced settings_QR500    |  |
|---|--|---------|--|--|
|   | 1. Connect device  |         | mware upgrade  |  |
|   | 💭 USB  |         | out  |  |
|   | ○ 115200   | 00      |  |  |
|   | DisConnect   |         |  |  |
|   | Firmware version: QR50_2021030   | 9_V1.07 |  |  |
|   |  |         |  |  |
|   | 2. Download configuration  |         |  |  |
|   | Set address 1.   | -       |  |  |
|   |  |         |  |  |
|   | Download   |         |  |  |
|   | DOWINOad   |         |  |  |
| er advanced setti   | ngs page.  |         |  |  |
|   |  |         |  |  |
| QR50&QR500 Configuration  |  |         |  | - :                                      |
| QR50&QR500 Configuration  | Demo_QR50 Function Selection   |         |  |  |
| CR50&QR500 Configuration  | Demo_QR50 Function Selection Function Selection RS485 Address  | 0       | Serial number  | 0000000000                               |
| QR50&QR500 Configuration Celcome y operation Device setting  Function Selection   | Demo_QR50 Function Selection Function Selection RS485 Address Unlock time  | 0       | RS485 active upload Clo                                      | 0000000000<br>se                         |
| CR50&QR500 Configuration Celcome ty operation Device setting  Function Selection Wiegand setting  | Demo_QR50  Function Selection  Function Selection  RS485 Address Unlock time  RS485 function Close   |         | RS485 active upload Clo<br>HID keyboard Clo                  | 0000000000<br>se <b>k</b><br>se <b>k</b> |
| <ul> <li>QR50&amp;QR500 Configuration</li> <li>Device setting </li> <li>Function Selection</li> <li>Wiegand setting</li> <li>Read card setting</li> </ul>   | Demo_QR50<br>Function Selection<br>Function Selection<br>RS485 Address<br>Unlock time<br>RS485 function<br>Close<br>Work mode<br>Reader mode                             |         | RS485 active upload Clo                                      | 0000000000<br>se <b>k</b><br>se <b>k</b> |
| CR50&QR500 Configuration Celcome by operation Device setting Function Selection Wiegand setting Read card setting Device operation  | Demo_QR50 Function Selection Function Selection RS485 Address Unlock time RS485 function Close Work mode Reader mode Wiegand function Open                               | 5       | RS485 active upload Clo<br>HID keyboard Clo<br>Baud rate 115 | 0000000000<br>se   se   200              |
| <ul> <li>QR50&amp;QR500 Configuration</li> <li>Device setting </li> <li>Function Selection</li> <li>Wiegand setting</li> <li>Read card setting</li> </ul>   | Demo_QR50<br>Function Selection<br>Function Selection<br>RS485 Address<br>Unlock time<br>RS485 function<br>Close<br>Work mode<br>Reader mode                             | 5       | RS485 active upload Clo<br>HID keyboard Clo                  | 0000000000<br>se   se   200              |
| CR50&QR500 Configuration Celcome by operation Device setting Function Selection Wiegand setting Read card setting Device operation  | Demo_QR50<br>Function Selection<br>Function Selection<br>RS485 Address<br>Unlock time<br>RS485 function<br>Close<br>Work mode<br>Reader mode<br>Wiegand function<br>Open | 5       | RS485 active upload Clo<br>HID keyboard Clo<br>Baud rate 115 | 0000000000<br>se   se   200              |
| <ul> <li>QR50&amp;QR500 Configuration</li> <li>Velcome</li> <li>by operation</li> <li>Device setting </li> <li>Function Selection</li> <li>Wiegand setting</li> <li>Read card setting</li> <li>Device operation </li> </ul> | Demo_QR50<br>Function Selection<br>Function Selection<br>RS485 Address<br>Unlock time<br>RS485 function<br>Close<br>Work mode<br>Reader mode<br>Wiegand function<br>Open | 5       | RS485 active upload Clo<br>HID keyboard Clo<br>Baud rate 115 | 0000000000<br>se   se   200              |
| Function Selection         Wiegand setting         Read card setting         Device operation   | Demo_QR50<br>Function Selection<br>Function Selection<br>RS485 Address<br>Unlock time<br>RS485 function<br>Close<br>Work mode<br>Reader mode<br>Wiegand function<br>Open | 5       | RS485 active upload Clo<br>HID keyboard Clo<br>Baud rate 115 | 0000000000<br>se   se   200              |

2.

- 3. On the "**Reader operation**" page, set the configuration parameters for the card reader as required.
  - 1) Click "**Search device**" to view the communication address of the card reader.

| Search device |         |   |  |
|---------------|---------|---|--|
| Search device | Address | 1 |  |
|               | Address | 1 |  |

**Note:** If you select RS485 address, you can click "**Search device**" to get the correct device address before you can perform other operations.

2) Click "Get version" to view the version number information of the card reader.

| Get version | QR50_20210309_V1.07 |
|-------------|---------------------|
|-------------|---------------------|

3) Set the relevant parameters for the reader.

|           |                                | Set RTC 1 |                  |
|-----------|--------------------------------|-----------|------------------|
| Get time  | Time 2021-05-08 13:36:55 Satur | lay       | Set current time |
|           |                                |           |                  |
| Write RTC |                                |           |                  |
| Write KTC |                                |           |                  |
|           | Time 2021-05-08 11:53:37       |           |                  |

| Parameter    | Description                        |
|--------------|------------------------------------|
| Read RTC     | Get the time of the card reader.   |
| Write RTC    | Set the time of the card reader.   |
| Set RTC Time | Set to the current time of the PC. |

## 4.3 Function Selection

#### **Operation Steps:**

1. On the "Function Selection" page to view the current configuration information of the reader.

| Function Selection |                     |                     |            |
|--------------------|---------------------|---------------------|------------|
| Function Selection |                     |                     |            |
| RS485 Address      | 0                   | Serial number       | 0000000000 |
| Unlock time        | 5                   | RS485 active upload | Close      |
| RS485 function     | Close               | HID keyboard        | Close      |
| Work mode          | Reader mode         | Baud rate           | 115200     |
| Wiegand function   | Open 🔹              |                     |            |
|                    | Write configuration | Read conf           | iguration  |

2. Users can set the parameter information of the reader by themselves, and then click "Write configuration" to configure the parameter information of the QR code reader.

| Parameter           | Description  |
|---------------------|--|
| RS485 Address       | 0: Broadcast address, that is, the communication connection can be made regardless of whether the machine 485 address is set to 0~255.<br>If the machine 485 address is set to 1~255, fill in the corresponding, you can also communicate. |
| Unlock time         | Set the time to unlock, valid values are 0~255.  |
| RS485 function      | Open or Close of the RS485 communication method of the card reader.<br>The configuration tool can still be connected via 485 when it is closed.  |
| Work mode           | Reader mode: When the card reader is connected, the reader mode is selected, and the parameters of the reader are set by the DEMO software.  |
| Wiegand function    | In the DEMO, the Wiegand switch has no effect and the Wiegand output is also available with the Wiegand mode switched off.   |
| Serial number       | The serial number of the device of the reader.   |
| RS485 active upload | When opened, the card reader data is automatically uploaded to the server<br>under the 485 interface.<br>When closed, the reader data will not be uploaded to the server.  |
| HID keyboard        | Upgrade mode only.   |

| Baud rate           | If a serial connection is selected, setting the baud rate is supported.  |
|---------------------|--|
| Write configuration | After modifying the above parameters, click " <b>Write configuration</b> ", that is, the new configuration information is successfully written to the card reader. |
| Read configuration  | Get the current configuration information of the reader and display it.  |

Support for restoring the card reader to its factory settings. 3.

Parity check Open

|        |        | Factory setting          | s                    |                |      |                 |
|--------|--------|--------------------------|----------------------|----------------|------|-----------------|
|        |        |                          | Fac                  | ctory rese     | et   |                 |
| 4.4    | Wi     | iegand Para              | meter Setting        |                |      |                 |
| Opera  | tion S | Steps:                   |                      |                |      |                 |
| On the | e "Wi  | <b>egand setting</b> " p | age, set the paramet | ers for Wiega  | ind. |                 |
|        | Wieg   | and setting              |                      |                |      |                 |
|        |        | Wiegand parameter sett   | ings                 |                |      |                 |
|        |        | Wiegand mode             | WG34                 | Pulse Width    | 5    | Unit : 10us)    |
|        |        | Output format            | Reverse output       | Pulse interval | 0    | (*100 + 1000us) |

| Parameter           | Description   |
|---------------------|---|
| Wiegand mode        | Wiegand 26, 34 and 66 are available.  |
| Output format       | When Wiegand outputs the card number/message, the card number can be optionally output in the forward/reverse direction.  |
| Parity check        | Parity check is a method of verifying the correctness of a code transmission.<br>Parity check is performed according to whether the number of "1" in the number<br>of bits of the transmitted binary code is odd or even. |
| Pulse Width         | Wiegand pulse width, selectable (1~99)*10ms.  |
| Pulse interval      | Wiegand pulse gap, optional (0~89)*100+1000ms.  |
| Write configuration | After modifying the above parameters, click "Write configuration", that is, the   |

|                    | new configuration information is successfully written to the card reader. |
|--------------------|---|
| Read configuration | Get the current configuration information of the reader and display it.   |

## 4.5 Reader Parameter Setting

#### **Operation Steps:**

1. On the "**Read card setting**" page, set the card reading parameters for the card reader.

| eader parameter settings |                            |                                 |
|--------------------------|----------------------------|---------------------------------|
| Directory ID             | 3F00 (Hex decimal) File ID | 21 (Decimal) Key ID 0 (Decimal) |
| CPU card key             | FFFFFFFF                   | FFFFFFFFFFFFFFFFFF              |
| Start block              | 1                          | Start byte 0                    |
| MF card key              | F                          | FFFFFFFF                        |
| CPU card                 | UID                        | Prior choice CPU card prior     |
| 🔲 ID card 🛛              | UID                        | ☑ MF card UID                   |
|                          |                            |                                 |
|                          |                            |                                 |
|                          | Write configuration        | Read configuration              |
|                          |                            |                                 |

| Parameter    | Description   |
|--------------|---|
| Directory ID | The directory file number of the user card content to be read.  |
| File ID      | The file number of the user card content to be read.  |
| Key ID       | The key identifier for external authentication of the CPU card.   |
| CPU card key | The key to the CPU user card content to be read.<br>Note: The authentication key of the user card must be the same as the user card<br>key set on the configuration card. |
| Start block  | The content of the user card to be read starts from the first block.  |
| Start byte   | The content of the user card to be read starts from the first few bytes.  |

| MF card key         | The sector key of the MF user card content to be read.   |  |
|---------------------|--|--|
| Prior choice        | Select the CPU priority or MF card priority when setting the card reader composite card.   |  |
| Reading Card mode   | Custom settings read the physical card number or content of the CPU card, MF<br>card UID or content.   |  |
| Write configuration | After modifying the above parameters, click Write Configuration, that is, the ne configuration information is successfully written to the card reader.                                       |  |
| Read configuration  | Customised settings to read CPU card physical card number or content, MF physical card number or content, ID card physical card number or content, ISO15693 physical card number or content. |  |

- 2. Once you have set the parameters, click "Write configuration" to write the information to the card reader.
- 3. Click "**Read configuration**" to display the configuration information of the card reader.

## 4.6 QR Code Tool

**Operation Steps:** 

On the "QR code tool" page, enter UID or common QR code data, and click" Create QR code".

| QR code tool   | QR code tool                      |
|--|-----------------------------------|
| Please enter UD or common QB code data<br>Create QR code | Created in 3027/04 BBW, T4: 23:03 |
|  |                                   |

## 4.7 Firmware Upgrade

Operation Steps:

On the "Firmware Upgrade" page, click "Open file", select the upgrade program, click the "Start" button, plug in the USB and reconnect the computer to the computer to view the prompt message, indicating that the upgrade is successful.

|              | re information   |  |
|--------------|--|--|
| File path    | File information   | Open file                              |
| File size    | File information   |  |
| ase address  | File information   | Start                                  |
|              |  |  |
| Firmware up  | ograde   |  |
| Firmwa       | re information   |  |
| File path    | C:\Users\Administrator\Desktop\R410-10-20(ZK)-20181019-V2.02.bin | Open file                              |
| File size    | 55.544 K byte  | - Chara                                |
| Base address | 0x0000   | Stop                                   |
| Firmwa       | re data  | *****                                  |
| 0000000      |  |  |
| 0000002      | 0 : 86 86 86 86 86 86 86 86 86 86 86 86 73 2C 86 86 ;s,          | Device : QR50&QR500 Configuration Demo |
| 0000004      | 0 : E5 DA 86 86 E5 DA 86 86 E5 DA 86 86 E5 DA 86 86 ;            | File name:                             |
| 0000006      | 0 : ES DA 86 86 ES DA 86 86 ES DA 86 86 ES DA 86 86 ;            |  |
| Upgrad       |  |  |
|              |  |  |
| Scanning     | device.  |  |
|              |  |  |
|              |  |  |

## 4.8 Page Configuration

Operation Steps:

On the **"Page configuration**" page, click **"Export configuration**" to exporting the page configuration information of the current device, click the **"Import configuration**" to importing configuration information.



## 4.9 About Software

Displays the name, version number and copyright notice of the current software.



ZKTeco Industrial Park, No. 32, Industrial Road,

Tangxia Town, Dongguan, China.

Phone : +86 769 - 82109991

Fax : +86 755 - 89602394

www.zkteco.com



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