

CoolCode Q350 QR Code Access Control Reader User Manual

Home » CoolCode » CoolCode Q350 QR Code Access Control Reader User Manual



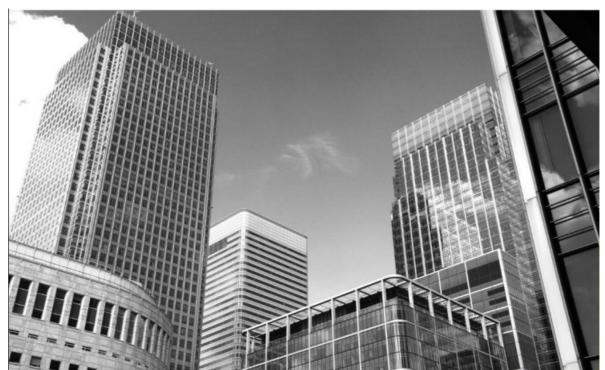
User manual Please read it carefully and keep it properly.

Contents

- 1 Q350 QR Code Access Control
- Reader
- 2 Disclaimer
- 3 Edit history
- 4 Preface
- **5 Product appearance**
- **6 Product parameters**
- 7 Interface definition
- 8 Device configuration
- 9 Mounting method
- 10 Attention
- 11 Contact info
- **12 Warning Statement**
- 13 Documents / Resources
 - 13.1 References

Q350 QR Code Access Control Reader





Fast recognition



Various output interface



Suitable for access control scenario

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 Suzhou CoolCode Technology Co., Ltd. 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, Suzhou CoolCode Technology Co., Ltd. reserves the right to modify the document at any time without notice.

Use of this product is at the user's own risk. To the maximum extent permitted by applicable law, damages and

risks arising from the use or inability to use this product, including but not limited to direct or indirect personal damage, loss of commercial profits, Suzhou CoolCode Technology Co., Ltd. will not bear any responsibility for trade interruption, loss of business information or any other economic loss.

All rights of interpretation and modification of this manual belong to Suzhou CoolCode Technology Co., Ltd.

Edit history

Change date	Version	Description	Responsible
2022.2.24	V1.0	Initial version	

Preface

Thanks for using the Q350 QR code reader, Reading this manual carefully can help you understand the function and features of this device, and quickly master the use and installation of the device.

1.1. Product introduction

Q350 QR code reader was specially designed for access control scenario, which has various output interface, including TTL, Wiegand, RS485, RS232, Ethernet and relay, suitable for gate, access control and other scenes.

1.2.Product feature

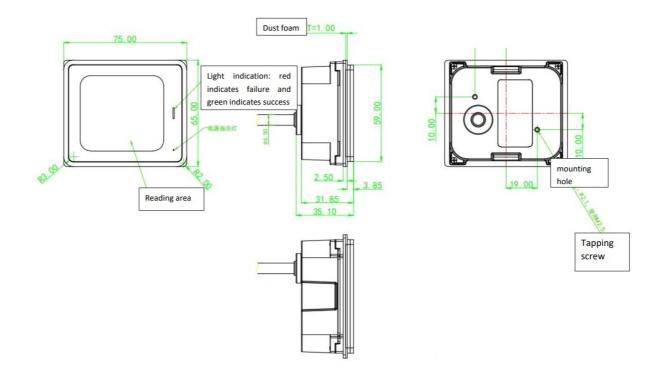
- 1. Scan code& swipe card all in one.
- 2. Fast recognition speed, high accuracy, 0.1 second the fastest.
- 3. Easy to operate, humanized configuration tool, more convenient to config the reader.

Product appearance

2.1.1. OVERALL INTRODUCTION



2.1.2. PRODUCT SIZE



Product parameters

3.1. General parameters

General parameters		
Output interface	RS485, RS232, TTL, Wiegand, Ethernet	
Indicating method	Red, green, white light indicator Buzzer	
Imaging sensor	300,000 pixel CMOS sensor	
Max resolution	640*480	
Mounting method	Embedded mounting	
Size	75mm*65mm*35.10mm	

3.2. Reading parameter

QR code recognition parameter			
Symbologies	QR, PDF417, CODE39, CODE93, CODE128, ISBN10, ITF, EAN13, DATABAR, aztec etc.		
Supported decoding	Mobile QR code and paper QR code		
DOF	0mm~62.4mm(QRCODE 15n	nil)	
Reading accurac y	≥8mil		
Reading speed	100ms per time(average), รบุ	oport reading continuously	
Reading directio	Ethernet	Tilt ± 62.3 ° Rotation ± 360 ° Deflection ± 65.2 ° 15milQR	
n	RS232, RS485, Wiegand, T TL	Tilt ± 52.6 ° Rotation ± 360 ° Deflection ± 48.6 ° 15milQR	
	Ethernet	86.2° 15milQR	
FOV	RS232, RS485, Wiegand, T TL	73.5° 15milQR	
RFID reading par	RFID reading parameter		
Supported cards	ISO 14443A, ISO 14443B protocol cards, ID card only physical card number		
Reading method	Read UID, read and write M1 card sector		
Working frequen	13.56MHz		
Distance	5cm		

3.3. Electric parameters

The power input can be provided only when the device is connected properly. If the device is plugged 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.

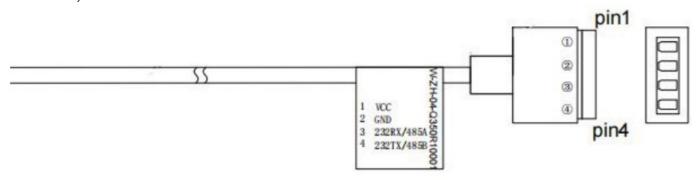
Electric parameters		
	RS232, RS485, Wiegand, TTL	DC 5-15V
Working voltage	Ethernet	DC 12-24V
	RS232, RS485, Wiegand, TTL	156.9mA 5V typical value
Working current	Ethernet	92mA 5V typical value
	RS232, RS485, Wiegand, TTL	784.5mW 5V typical value
Power consumption	Ethernet	1104mW 5V typical value

3.4. Working environment

Working environment		
ESD protection	±8kV Air discharge ±4kV Contact discharge	
Working temp	-20°C-70°C	
Storage temp	-40°C-80°C	
RH	5%-95% No condensation environment temperature30°C	
Ambient light	0-80000Lux(Non direct sunlight)	

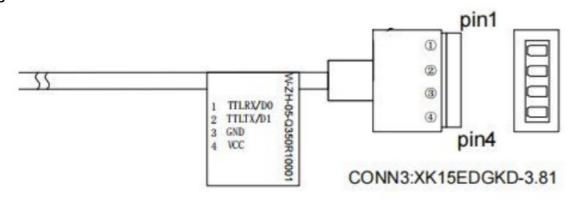
Interface definition

4.1. RS232, RS485 Version



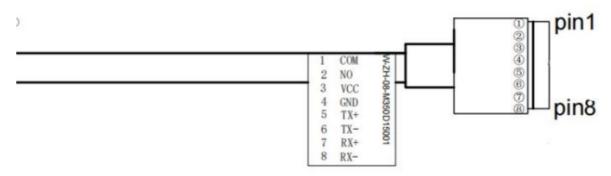
Serial num ber	Definition	Description	
1	VCC	Positive power supply	
2	GND	Negative power supply	
3 232RX/485A	222DV/495A	232 Version	Data receiving end of code scanner
	20211//400//	485 Version	485 _A cable
4	232TX/485B	232 Version	Data sending end of code scanner
		485 Version	485 _B cable

4.2 .Wiegand&TTL Version



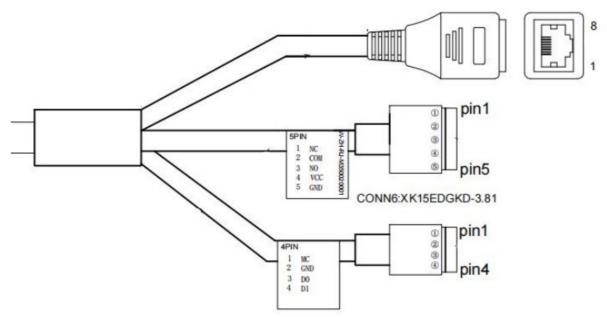
Serial num ber	Definition		Description
4	VCC	Positive power supply	
3	GND	Negative power supply	
2 1	TTLTX/D1	TTL	Data sending end of code scanner
		Wiegand	Wiegand 1
1	TTLRX/D0	TTL	Data receiving end of code scanner
		Wiegand	Wiegand 0

4.3 Ethernet Version



Serial num ber	Definition	Description
1	СОМ	Relay common terminal
2	NO	Relay normally open end
3	VCC	Positive power supply
4	GND	Negative power supply
5	TX+	Data transmission positive end (568B network cable pin1 orange and white)
6	TX-	Data transmission negative end 568B network cable pin2-orange
7	RX+	Data receiving positive end (568B network cable pin3 green and white)
8	RX-	Data receiving negative end 568B network cable pin6-green

4.4. Ethernet+Wiegand Version



RJ45 port connect to the network cable, 5pin and 4Pin screws interface descriptions are as follows: **5PIN interface**

Serial num ber	Definition	Description
1	NC	Normally closed end of relay
2	СОМ	Relay common terminal
3	NO	Relay normally open end
4	VCC	Positive power supply
5	GND	Negative power supply

4PIN interface

Serial num ber	Definition	Description	
1	MC	Dear magnetic signal input terminal	
2	GND	Door magnetic signal input terminal	
3	D0	Wiegand 0	
4	D1	Wiegand 1	

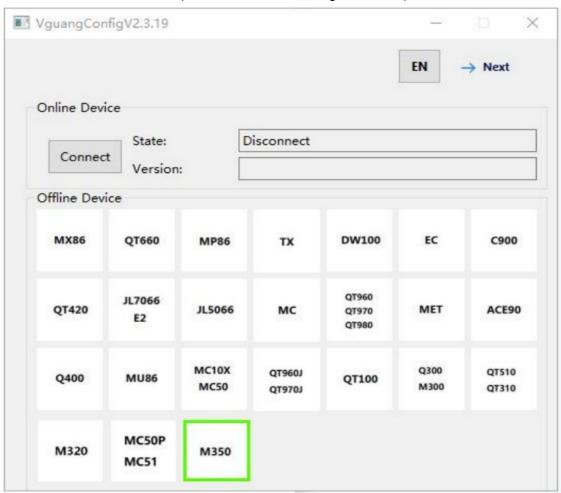
Device configuration

Use the Vguang config tool to configure the device. Open the following configuration tools (available from the download center on the official website)

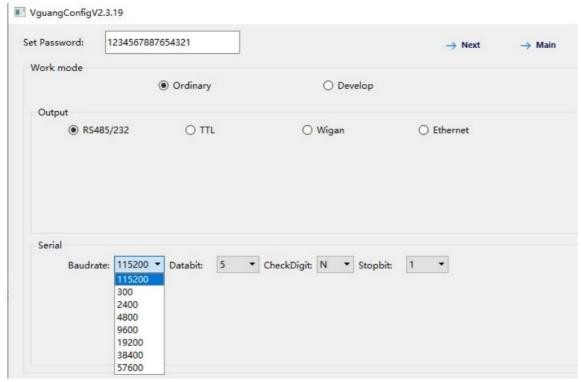


5.1 config tool

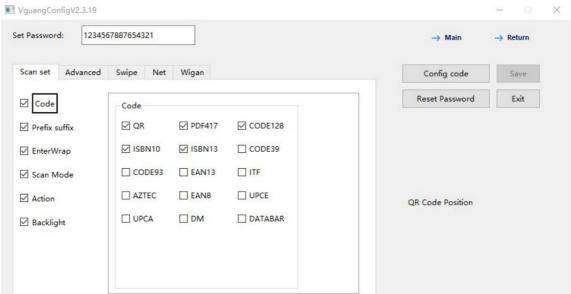
Config the device as the step shows, the example are showing 485 version reader. Step 1, Select the model number Q350 (Select M350 in the configuration tool) .



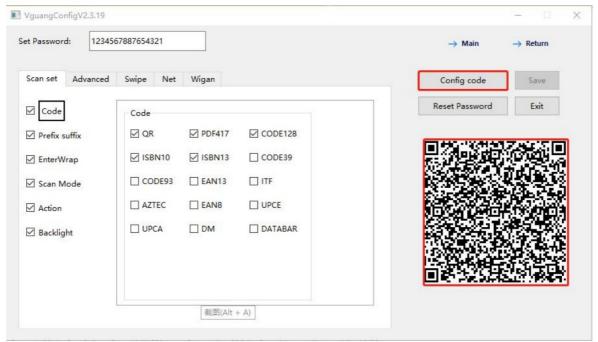
Step 2, Select the output interface, and config the corresponding serial parameters.



Step 3, select the required configuration. For configuration options, please refer to the user manual of Vguangconfig configuration tool on the official website.



Step 4, After configing as your needs, click "config code"



Step 5, Use the scanner to scan the configurations QR code generated by the tool, then restart the reader to finish the new configurations.

For more details about configurations, please refer to the "Vguang configuration tool user manual".

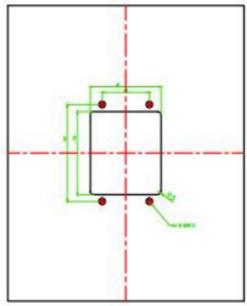
Mounting method

The product using CMOS image sensor, the recognition window should avoid direct sun or other strong light source when install the scanner. The strong light source will cause the contrast in the image too big to decoding, the long term exposure will damage the sensor and cause the device failure.

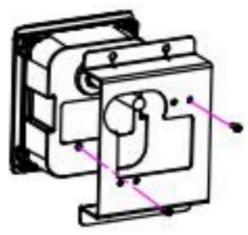
The recognition window are using tempered glass, which has good transmission of the light, and also a good pressure resistance, but still need to avoid scratching the glass by some hard object, it will affect the QR code recognition performance.

The RFID antenna was in the underside of the recognition window, there should have no metal or magnetic material within 10cm when installing the scanner, or it will affect the card reading performance.

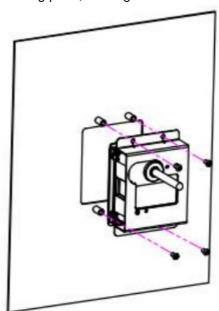
Step 1: Open a hole in the mounting plate.70*60mm



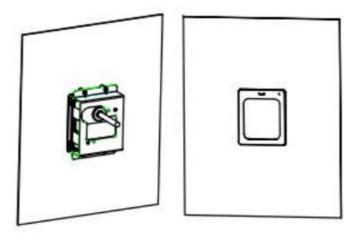
Step 2: Assemble the reader with the holder, and tighten the screws, then plug the cable.M2.5*5 self tapping screw.



Step 3: assemble the holder with themounting plate, then tighten the screws.



Step 4, installation finished.



Attention

- 1. The equipment standard is 12-24V power supply, it can get power from the access control power or power it separately. Excessive voltage may cause the device fail to work normally or even damage the device.
- 2. Do not disassemble the scanner without permission, otherwise the device may be damaged.
- 3. 3, The installation position of the scanner should avoid direct sunlight. Otherwise, the scanning effect may be affected. The panel of the scanner must be clean, otherwise it may affect the normal image capture of the scanner. The metal around the scanner may interfere with the NFC magnetic field and affect card reading.
- 4. The wiring connection of the scanner must be firm. In addition, ensure the insulation between the lines to

prevent the equipment from being damaged by a short circuit.

Contact info

Company name: Suzhou CoolCode Technology Co., Ltd.

Address: Floor 2, Workshop No. 23, Yangshan Science and Technology Industrial Park, No. 8, Jinyan

Road, High-tech Zone, Suzhou, China

Hot line: 400-810-2019

Warning Statement

FCC Warning:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. this device may not cause harmful interference, and
- 2. this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

ISED Canada Statement:

This device contains licence-exempt tasmittre(s)/receiver(s)/ that comply with Innovation Science and Economic Development Canada 's licence-exempt RSS(s).

Operation is subject to the following two conditions:

- 1. this device may not cause interference and
- 2. this device must accept any interference, including interference that may cause undesired operation of the device.

Radiation Exposure: This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment

RF Exposure Statement

To maintain compliance with IC's RF Exposure guidelincs, This equipment should be installed and operated with minimum distance of 20mm the radiator your body.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.



Documents / Resources



CoolCode Q350 QR Code Access Control Reader [pdf] User Manual Q350 QR Code Access Control Reader, Q350, QR Code Access Control Reader, Code Access Control Reader, Access Control Reader, Control Reader, Reader

References

• User Manual

Manuals+, Privacy Policy