

# **infoscan FV3X**

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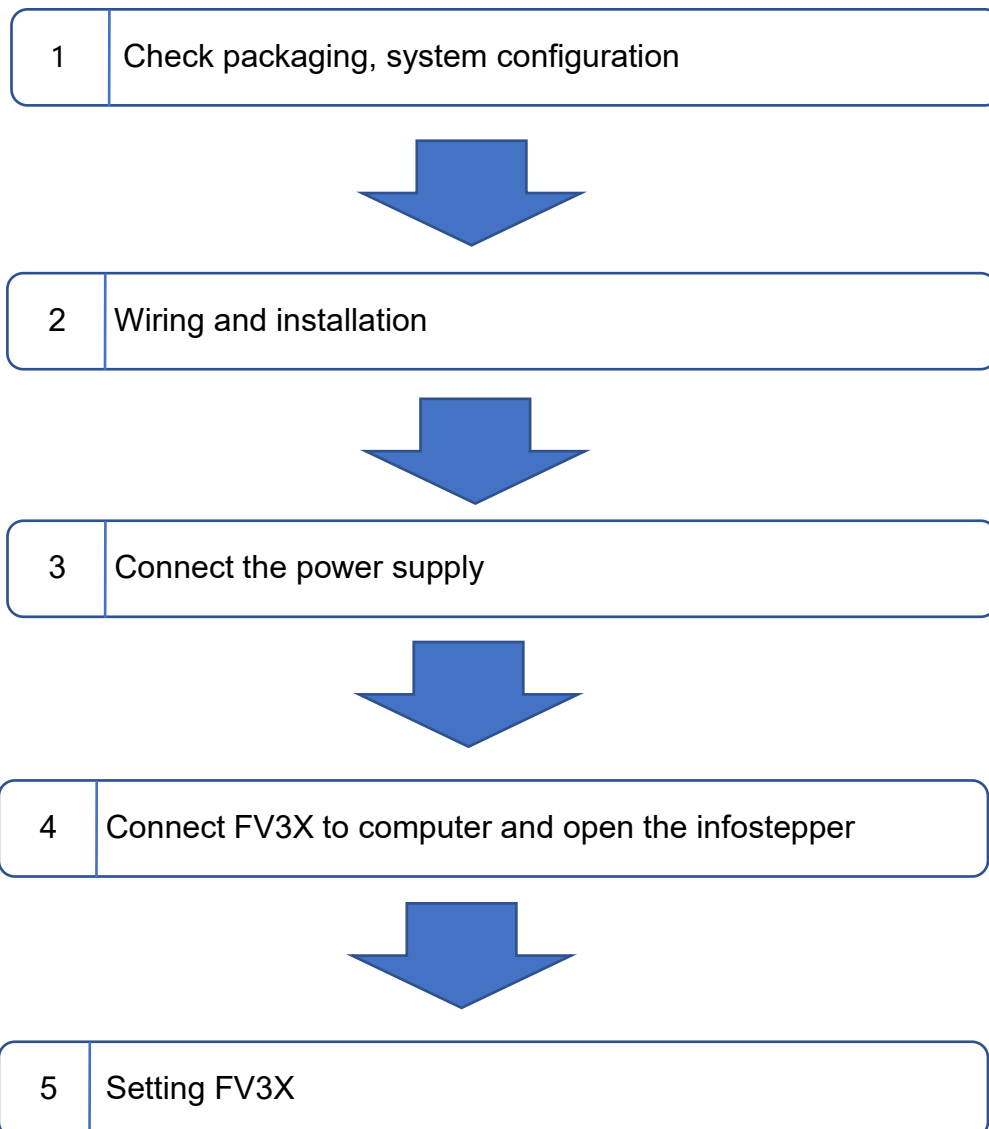
## **Operating Manual**

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## Setup Process



# 1 Unwrap the package

## 1-1 reader and its belonging

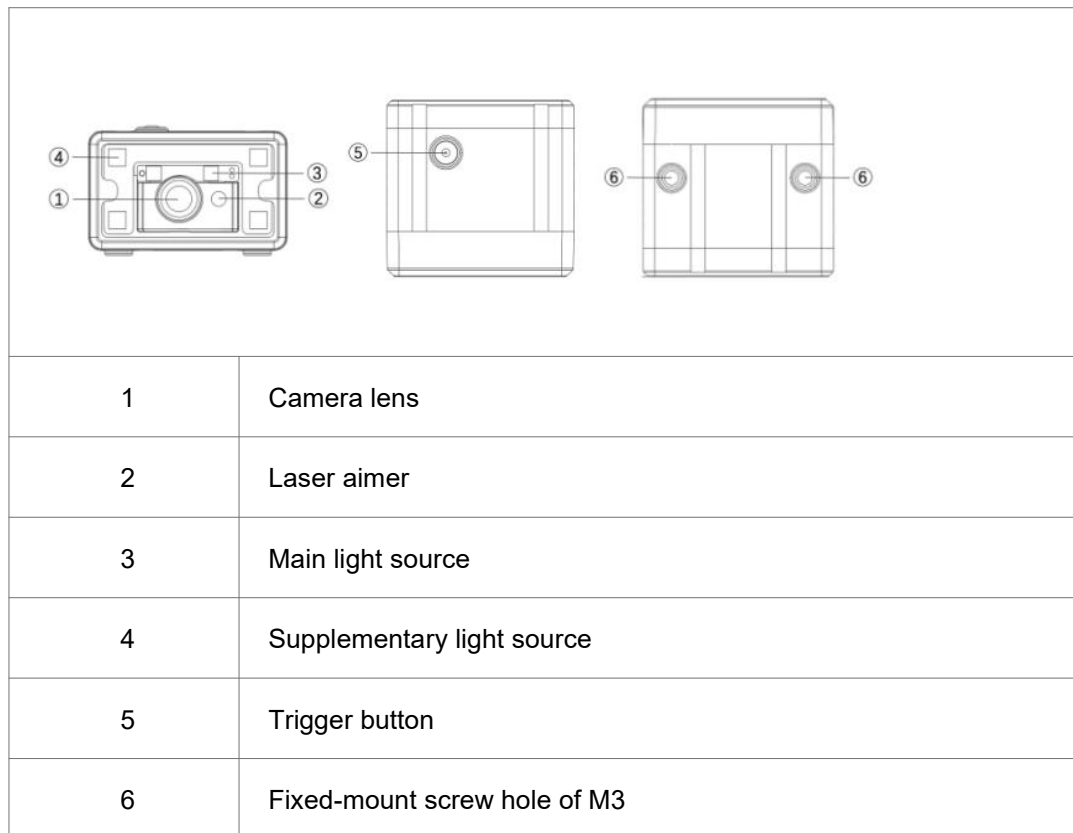
Model	Name	Package content	Quantity	Picture
FV3X	Industrial reader	reader	1	
		Quick use guide	1	
		Bracket	1	
		Insulating gasket	1	
		Screws	1	

## 1-2 Cables and power supply

Accessory model	Details
UCM1V-S5-D9PM1-V1	RS232 communication cable, 2 meters, with external power port, with IO terminal, straight end connection
UCM2-D9P-V1	RS232 communication cable, 2 meters, with external power interface, straight connection
UCLM1V-S5-D9PM1-V1	RS232 communication cable, 2 meters, with external power interface, IO terminal, elbow connection
UCLM2-D9P-V1	RS232 communication cable, 2 meters, with external power interface, elbow connection
UCM1V-S5-UAM1-V1	USB communication cable, 2 meters, with IO terminal, straight end connection
UCM2-UA-V1	USB communication cable, 2 meters, straight end connection
UCLM1V-S5-UAM1-V1	USB communication cable, 2 meters, IO terminal, elbow connection
UCLM2-UA-V1	USB communication cable, 2 meters, elbow connection
FV3X bracket	Fixed-mount bracket for FV3X
5V2A power supply	5V 2A power supply, serial port power supply for FV3X

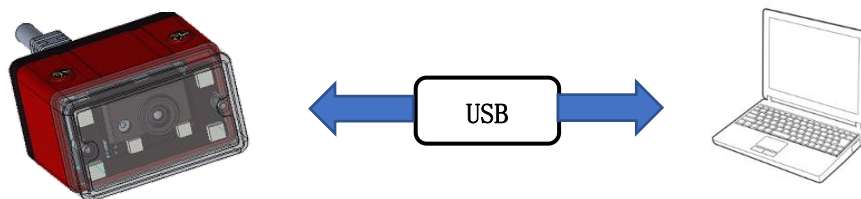
(Please refer to the customer's actual order for product accessories)

## 1-3 reader photographs

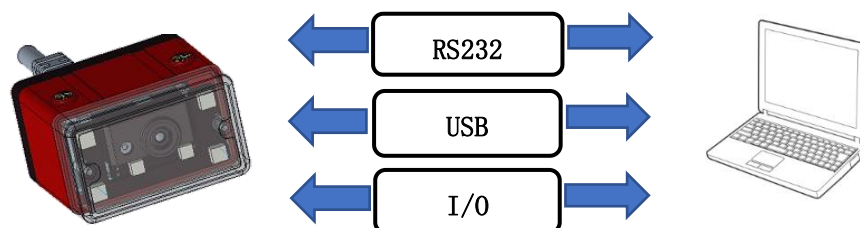


## 1-4 Reader configuration

Configure products:



Data communication:

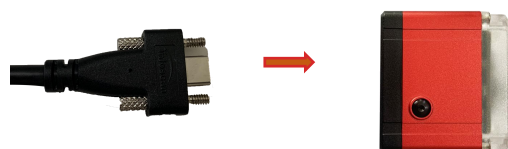


## 2 Connecting Diagram

### 2-1 Serial port communication connection

Connect the serial port communication cable to the host

The arrow in the figure indicates the cable connection position



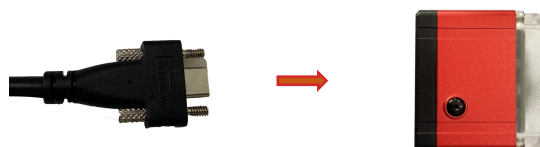
Connect the device power supply

The arrow in the figure indicates the position where the power supply is connected to the serial cable



### 2-2 USB port for communication

Connect the USB communication cable to the host. The arrow in the figure indicates the cable connection position.



Connect USB port to the host (USB power supply). The arrow in the figure indicates the USB port access position.





## 3 I/O connection diagram

### 3-1 I/O terminal description

The I/O terminal is connected to the serial communication cable. If the device connects to external signals or drives external devices, use this terminal to connect to external devices. The terminal is shown in the figure, and the terminal serial number and definition are shown in the table.



color	Terminal name	Specific Description	Note
Red	5V	Power input (output)	Power output: Provides power supply for external devices Power input: 5V for power supply
Black	GND	GND	GND
Green	IN	Input signal	Level triggering (decline triggering by default)
Yellow	OUT1	Output signal	Success in reading (output drop level by default )
Blue	OUT2	Output signal	Fail in reading (output drop level by default )

## 3-2 Photoelectric sensor connection

The default initial level triggering direction of the device is down. Connect the photoelectric sensor GND to the signal terminal GND and the photoelectric sensor OUT terminal to the signal terminal IN. When the photoelectric sensor OUT terminal level drops, the trigger takes effect.

Recommended model of photoelectric sensor:

Model	OMRON E3Z-D62	SICK WT100-N1432
Working condition	NPN normally open type	NPN normally open type
Working voltage	12-36VDC	10-30VDC
Detection distance	0-90cm	

Note 1: Common photoelectric sensor operating voltage is higher than 5V, the photoelectric sensor needs to select an external adaptor power supply based on the rated voltage.

Photoelectric sensor	Signal terminal
OUT	IN (Green)
GND	GND (Black)

By default, the barcode reader is triggered by level drop. If you select level rise trigger, scan the setting code of level rise trigger. Trigger rising level should not be less than 5V.

## 3-3 Switch triggered wiring

The device default initial logic, take the button switch as an example. Connect the switch to signal terminal 2 and 3. When the switch is pressed, the trigger takes effect:

Push-button switch	Signal terminal
SW1	GND (black)
SW2	IN (green)

By default, it is triggered by level drop. If you need to change it, please scan the setting code of level rise trigger.

## 3-4 Relay trigger wiring

The default initial logic of the device connects the relay to signal terminal 2 and 3. When the rated voltage is applied externally, the trigger takes effect. The corresponding line sequence is shown in the table:

Relay	Signal terminal
Constant beginning 1	GND (black)
Constant beginning 2	IN (green)

# 4 Installation and adjustment

## 4-1 Before installation

Before installation, please pay attention to the following items and check the installation conditions:

1. No influence of ambient light;

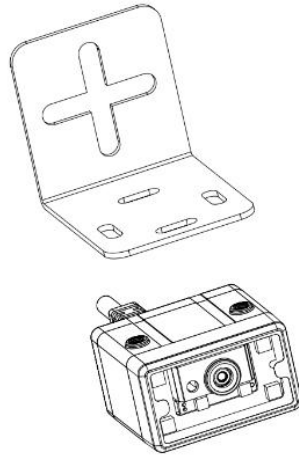
Please avoid sunlight, other lighting, photoelectric sensors and other ambient light entering the FV3X light receiving area, otherwise it may cause reading instability or reading error.

2. Check whether the light source of the barcode reader is blocked;

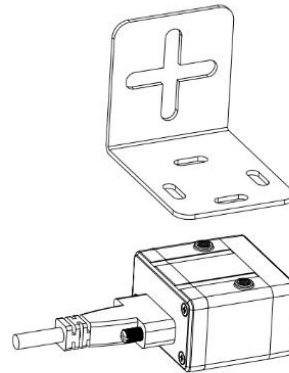
If the light source is blocked, the barcode may not be detected. If there are other devices emitting strong light (direct light and reflected light) on site, please set up a shading plate to avoid that such strong light may damage the barcode reader or cause code reading failure.

## 4-2 L-type metal fixing plate mounting

Way 1

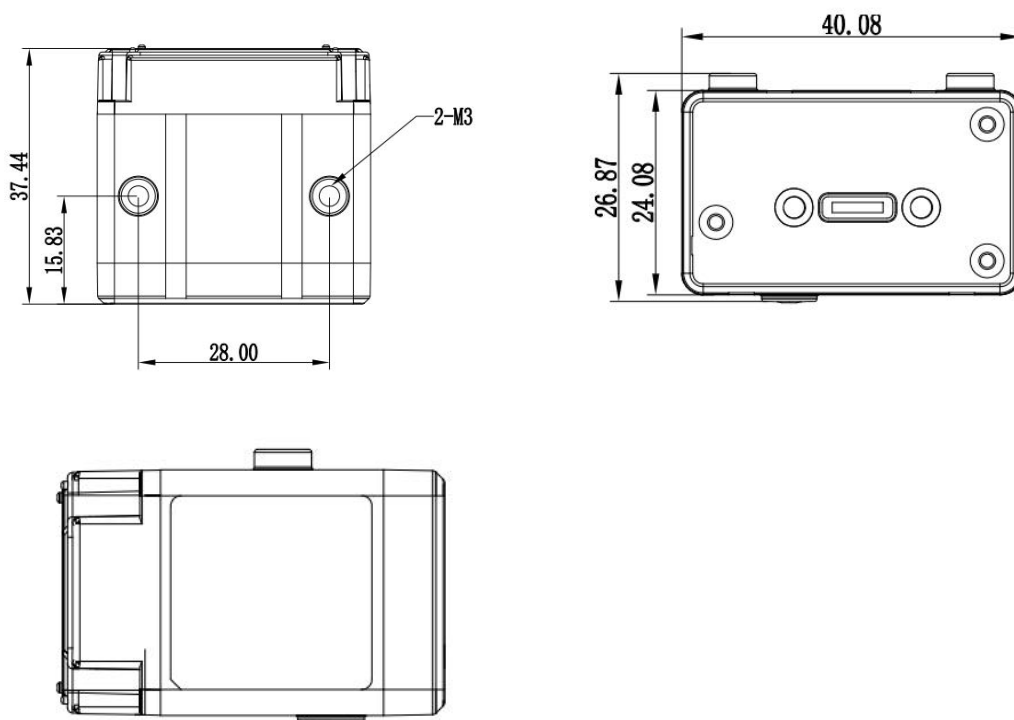


Way 2



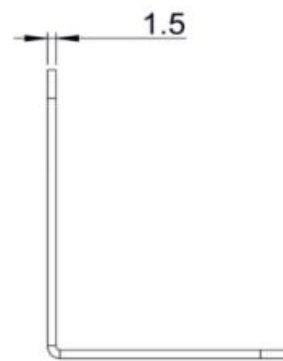
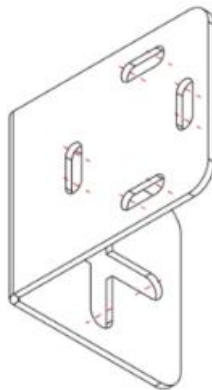
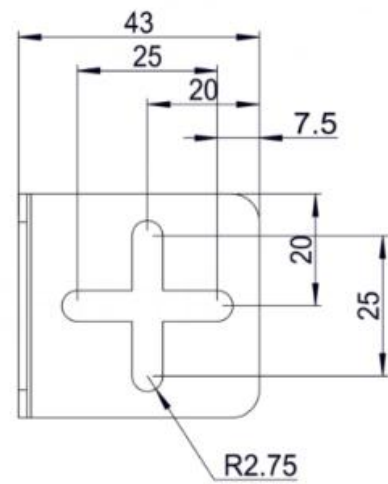
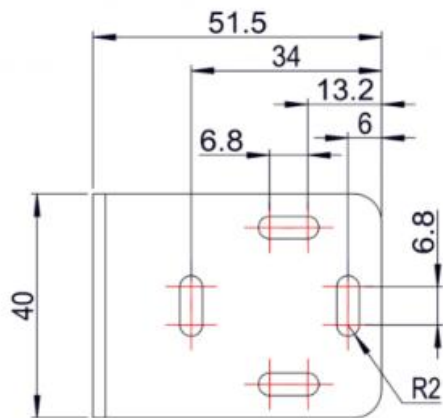
Note 1 The screws used to fix the equipment must be metal screws provided in the package

## 4-3 Product dimension drawing



(unit: mm)

#### 4-4 Size drawing of L-shaped fixed piece



(unit: mm)

## 4-5 Reading range characteristics chart

### FV31

unit: mm			unit: mm		
Barcode specifications	FV31		Installation distance	FV31	
	Minimum reading distance	Maximum reading distance		X axis view	Y axis view
3.34mil Code 128 10bit	50	110	50	40	30
5mil Code 128 10bit	40	130	100	90	60
6.67mil Code 128 10bit	40	140	150	130	80
10mil Code 128 10bit	40	160	200	170	110
15mil Code 128 10bit	40	190			
5mil DataMatrix 10bit	40	110			
6.67mil DataMatrix 10bit	40	120			
10mil DataMatrix 10bit	40	150			
15mil DataMatrix 15bit	40	160			

### FV31L

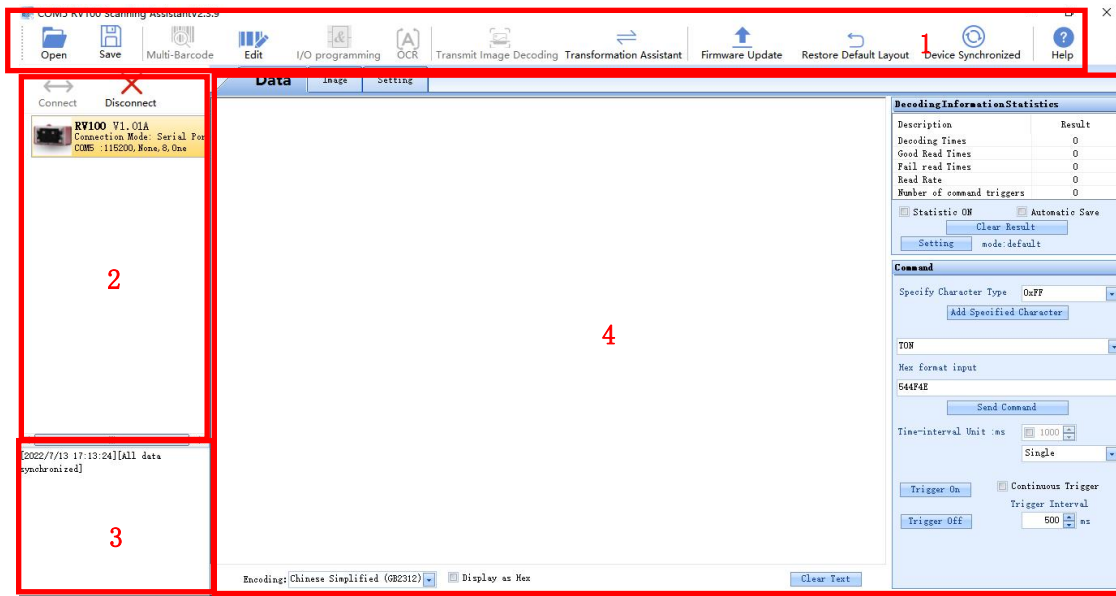
unit: mm			unit: mm		
Barcode specifications	FV31L		Installation distance	FV31L	
	Minimum reading distance	Maximum reading distance		X axis view	Y axis view
3.34mil Code 128 10bit	60	110	50	30	20
5mil Code 128 10bit	60	120	100	70	40
6.67mil Code 128 10bit	50	140	150	100	60
10mil Code 128 10bit	30	150	200	130	80
15mil Code 128 10bit	40	180			
5mil DataMatrix 10bit	70	110			
6.67mil DataMatrix 10bit	60	110			
10mil DataMatrix 10bit	50	130			
15mil DataMatrix 10bit	60	110			

## 5 Connecting FV3X to infostepper

infostepper download address: [www.infoscan-cn.com](http://www.infoscan-cn.com)

Decompress the compressed package and run infostepper.exe.

### 5-1 Introduction to infostepper

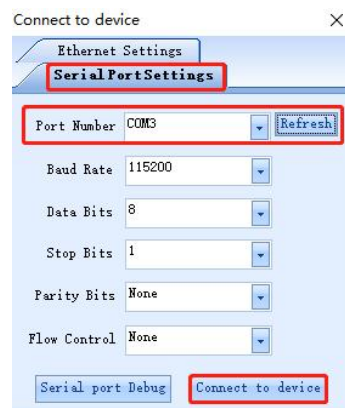


Serial number	Instruction
1	Common Toolbar
2	Connection mode and information display
3	Online feedback information display
4	Once online, set the class

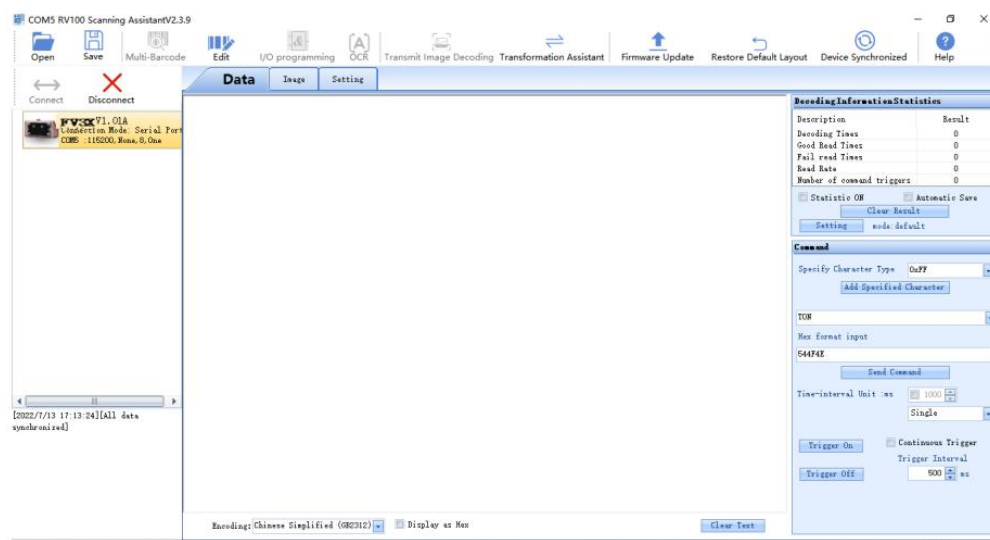
## 5-2 Connecting FV3X to infostepper

### 1.RS-232 connection

After the device is directly connected to the computer serial port, check "Device Manager→""Port", confirm the port number, click "Connect" when connecting to the software, then the "Connect to device" window will pop up, select "Serial PortSettings", then click "Port Number" Select the corresponding COM number below. If the COM number is not displayed, you can click the "Refresh" button to search; the baud rate, data bit, stop bit, etc. are consistent with the device; as shown in the figure:



Click "Connect to device" after the connection is successful, the device will have a buzzer prompt, as shown in the figure:

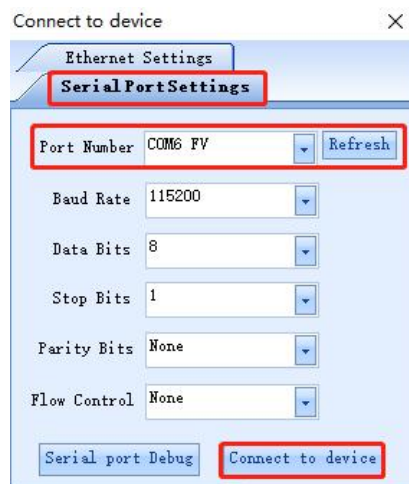


Note: Display the online device model and version information and connection mode, serial port number of the device baud rate and other information; The feedback information part shows the date and time of online and other related information; Click "Image" or "Settings" to set the reader in detail after online and interactive success. (In the image, due to the RS232 serial port transmission rate limit, the "continuous shooting function" cannot be used, and USB port is required to connect)

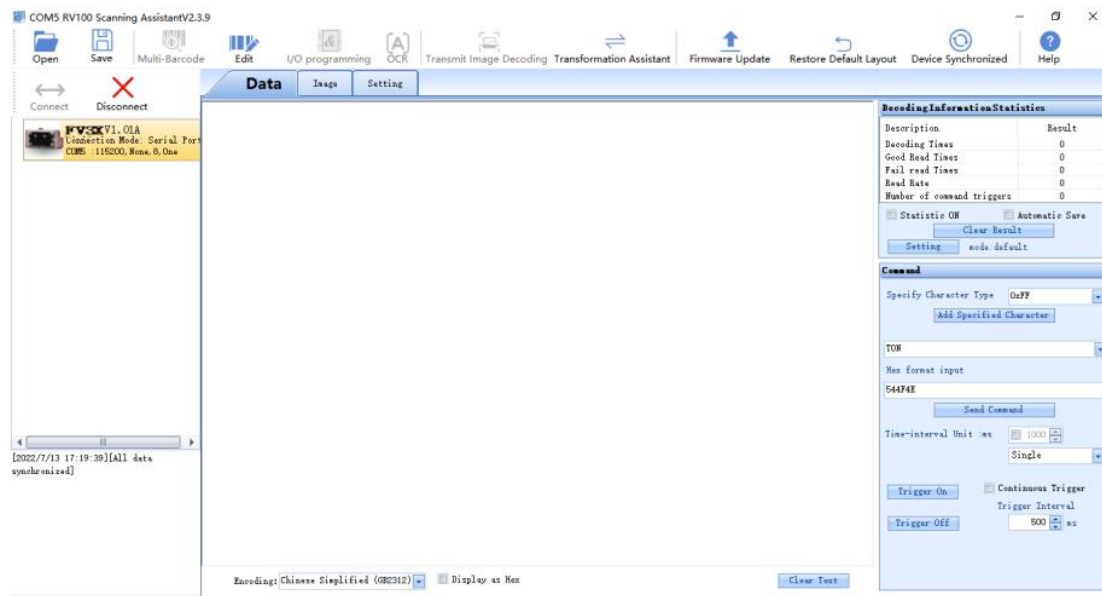


## 2.USB connection

After the device is directly connected to the computer, first check the "Device Manager" ---, "Port" (under the premise of installing the USB serial port driver), click "Connect" when connecting to the software, then the Device connection window will pop up, select "Serial Port Settings", select the corresponding "COM Number FV" under "Port Number", if "COM Number FV" is not displayed, you can click the "Refresh" button to search.

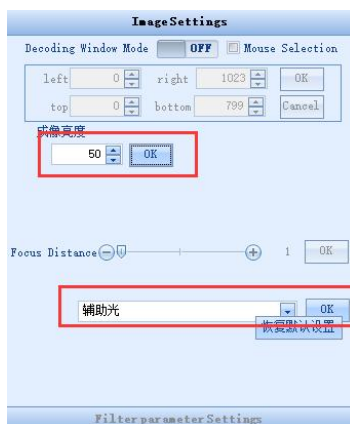


Finally click "Connect to device", The USB connection screen is as shown in the figure:



## 5-3 Setting image parameters

1. In the USB simulation serial port connection, select "Continuous view". View "Image Parameter Settings";



2. Mode 1: Adjust the imaging brightness with a value of 1-240, as shown in the figure. The imaging brightness is set to 10 and the image is dark. When the imaging brightness is set to 50, the image becomes obviously bright and the sample bar code shows a green box, which can be decoded successfully.

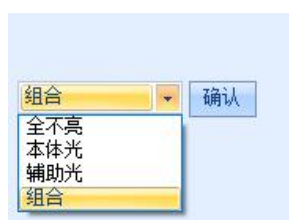


Imaging brightness is set to 10

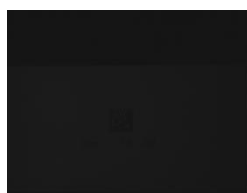


Imaging brightness is set to 50

3. Mode 2: Adjust the lighting source, as shown in the figure.



Different light sources, imaging brightness will be different. As shown, the imaging is reflected in different light sources at the imaging brightness of 50.



No light at all



Main body light



Auxiliary light




Combined light

Note: The confirmation and adjustment of image parameters should be made according to the specific characteristics of reading products to meet reading requirements;

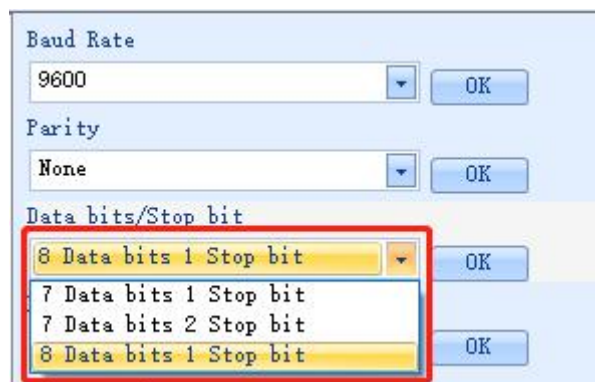


4. In the same way, select the verification type as required, click "OK", the selected verification type Settings will appear in the Settings list, and download the Settings.



The screenshot shows a configuration window with several sections. The 'Parity' section is highlighted with a red rectangle. It contains a dropdown menu with the following options: 'None' (selected), 'None', 'Odd', and 'Even'. To the right of the dropdown is an 'OK' button. Other sections visible include 'Baud Rate' (9600), 'IP Address' (192.168.0.100), 'Subnet Mask' (255.255.255.0), and 'Gateway Address' (0.0.0.0), each with its own 'OK' button.

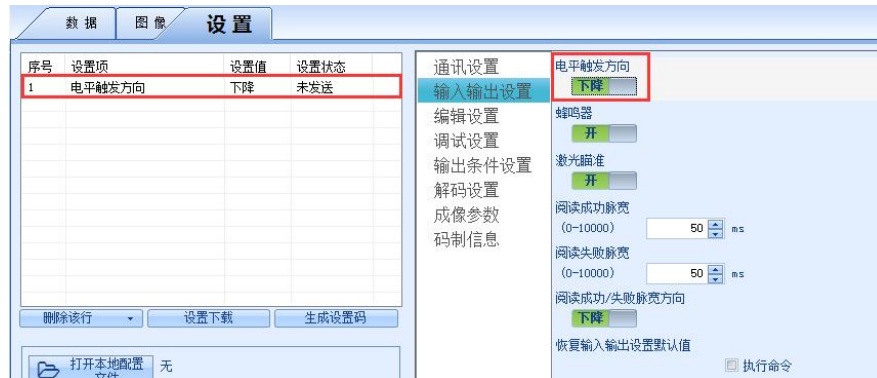
5. In the same way, select data bit/stop bit as required, click the "OK" button and the selected data bit/stop bit type settings will appear in the setting list. Then download the settings.



The screenshot shows a configuration window. The 'Data bits/Stop bit' section is highlighted with a red rectangle. It contains a dropdown menu with the following options: '8 Data bits 1 Stop bit' (selected), '7 Data bits 1 Stop bit', '7 Data bits 2 Stop bit', and '8 Data bits 1 Stop bit'. To the right of the dropdown is an 'OK' button. Other sections visible include 'Baud Rate' (9600) and 'Parity' (None), each with its own 'OK' button.

## 5-5 Setting the output signal level, duration pulse width

1.FV3X reader provides two specification output level signal Settings. If "level trigger direction" is set to down, the output signal level is 5V.



2.IO output logic, OUT 1-OUT2 output level signal is 5V.

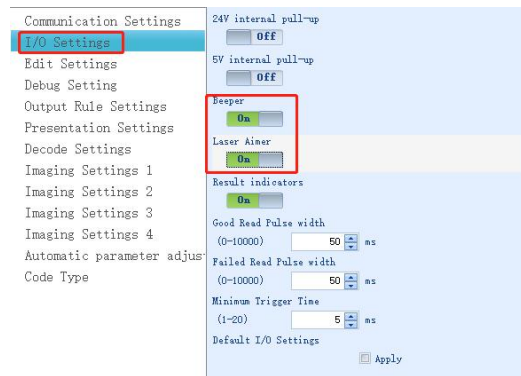
(About the output logic hardware connection interview the first part of the basic operation)

3.For the default I/O output logic, OUT1 indicates that a message is read successfully and OUT2 indicates that a message is read failed. The pulse width of both successful and failed messages is 50ms. The maximum pulse width can be set to 10000ms as required.

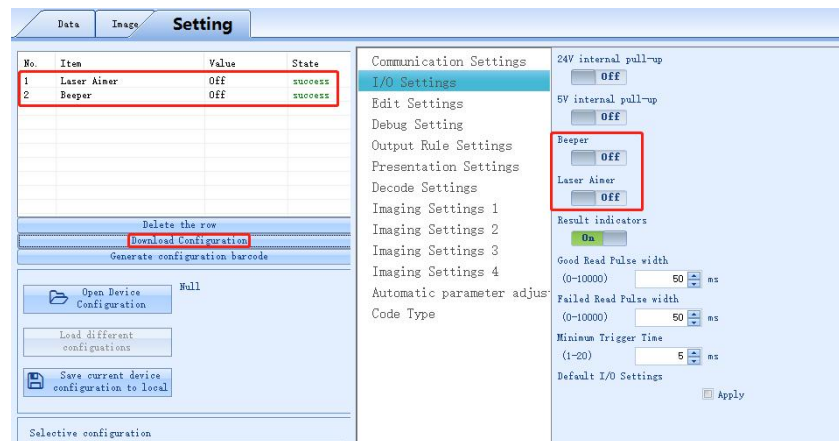


## 5-6 Setting the buzzer for successful or failed barcode reading and laser aiming function

1.The FV3X barcode reader buzzer for successful or failed barcode reading and the laser aiming function are open by default;

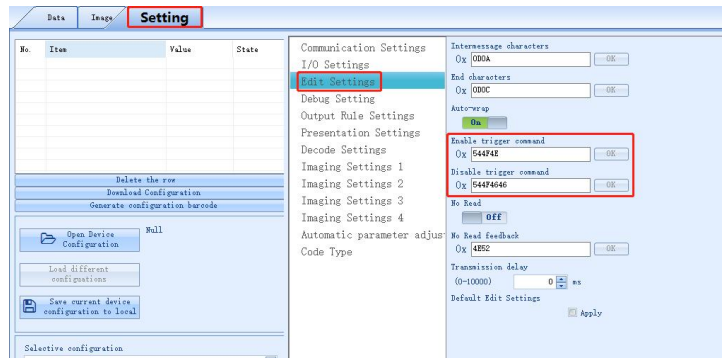


2.The FV3X barcode reader has a buzzer for successful or failed code reading, the laser aiming function can be set to "off" according to requirements. Click "Download Configuration" to complete the setting.

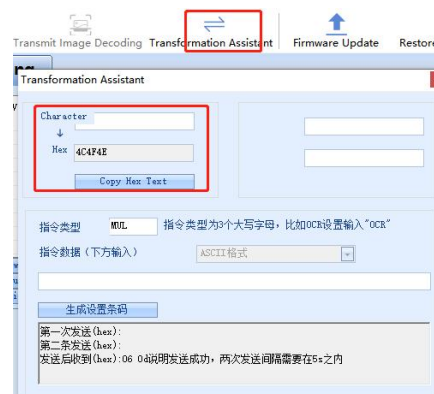


## 5-7 Setting the triggering instruction and how to cancel it

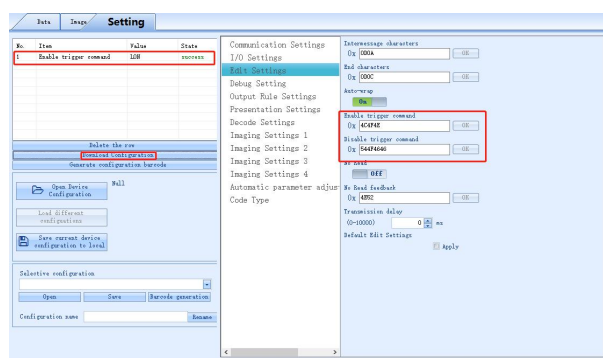
1. The FV3X barcode reader can respond to the command to control the device to read the code. The default triggering command (hex) of the barcode reader is "544F4E", the trigger cancellation command (hex) is "544F4646";



2. Set the triggering command, for example, set "LON" as the triggering command, select "Transformation Assistant" and input "LON" to convert "LON" to the corresponding hexadecimal;



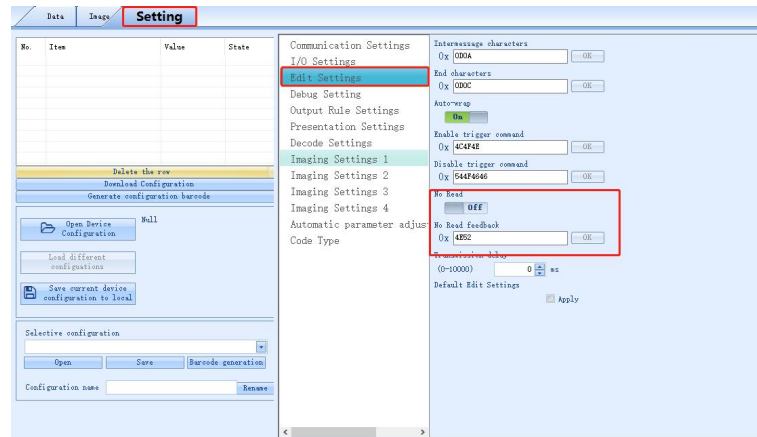
3. Copy the Hex content converted by "LON", paste it into "Enable trigger command", click "OK", you can view it in the setting list, click "Download Configuration" to complete the setting;



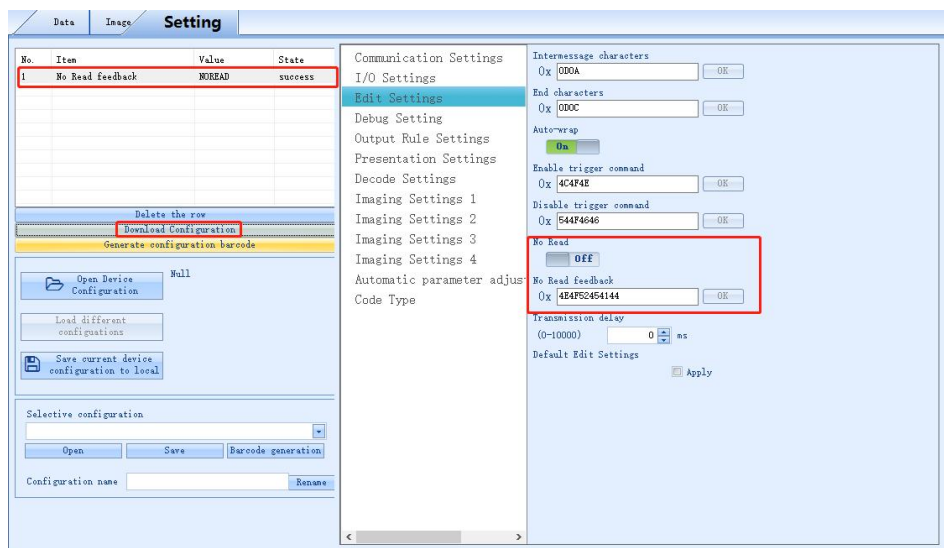
4. The custom trigger cancellation command is set as above.

## 5-8 Setting the failure feedback instructions

1.The FV3X barcode reader can output failed-reading characters, the default output character content (hex) is "4E52", the reading failure feedback is closed by default.



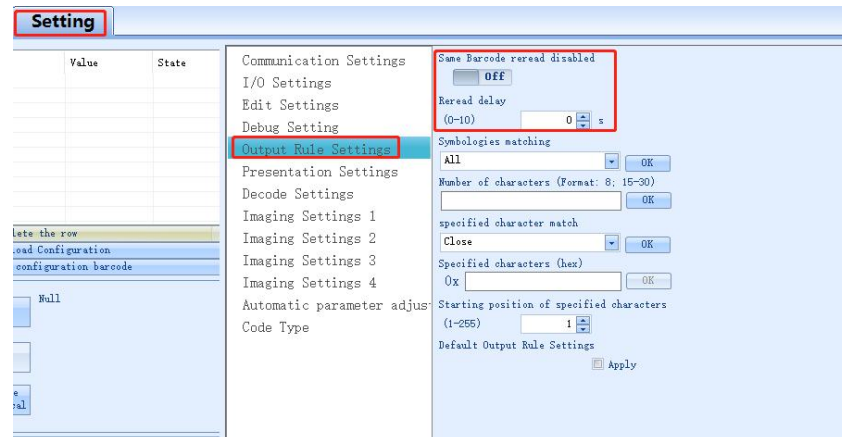
2.The read failure feedback switch is set to on, and the read failure character feedback character (hex) is set to "NoRead". Use the conversion assistant to convert "NoRead" to hexadecimal, paste the hexadecimal content into the "No Read feedback", click "OK", view the list, click "Download Configuration" to complete the setting.



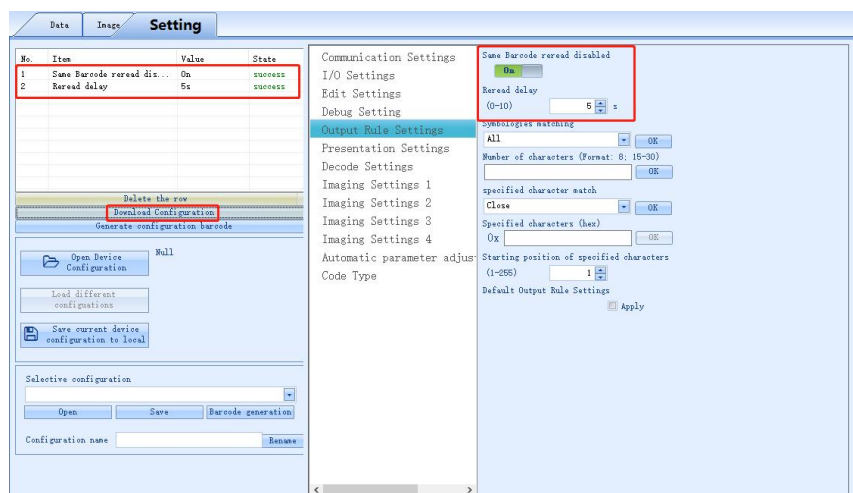


## 5-9 Setting for shielding repeated barcodes reading

1.FV3X barcode reader “repeated barcode shielding” function is off by default, shielding time is 0 S by default.



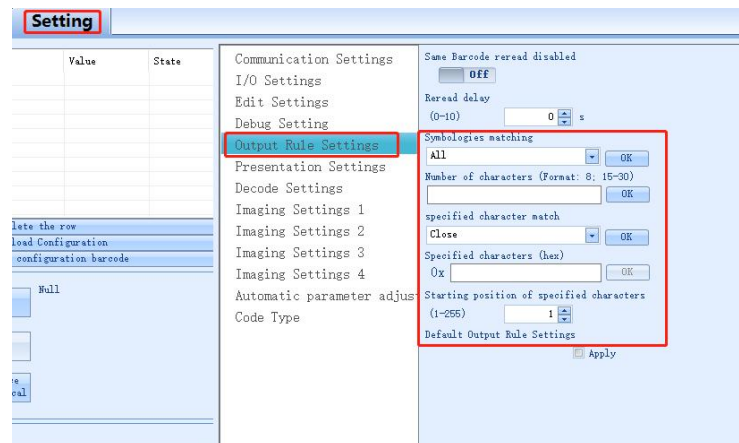
2.FV3X barcode reader repeated barcode shielding is set to open, shielding time is set to "5".



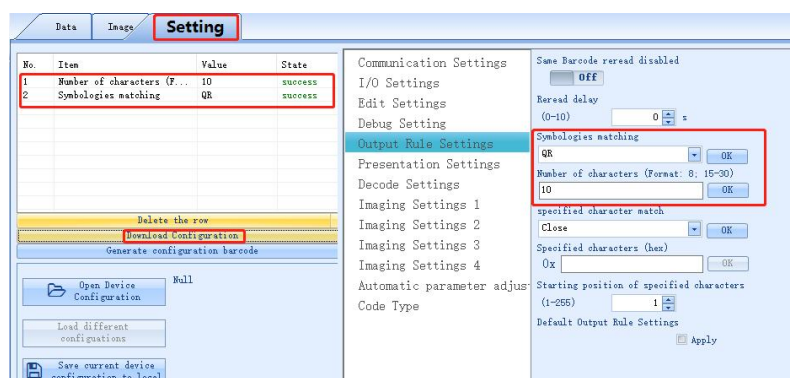
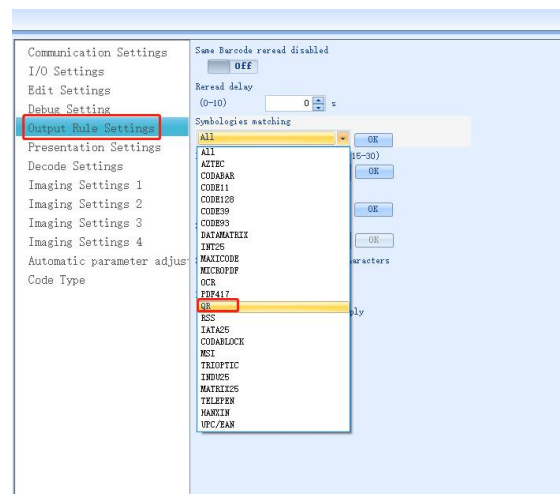
3.The repeated shielding time is set to 5s and the repeated bar code shielding function is kept for 5s.

## 5-10 Setting the barcode screening conditions

1. If the output barcode needs to be screened, FV3X provides the barcode screening function, which can be set according to the code system, the number of characters, special characters, etc. to achieve screening.



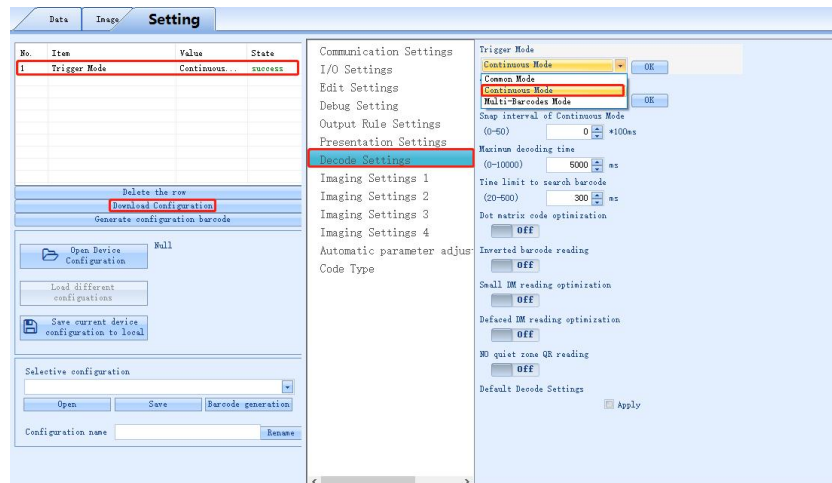
2. For example, if the output code system is QR barcode, the number of characters is 10 and the settings are as follows:



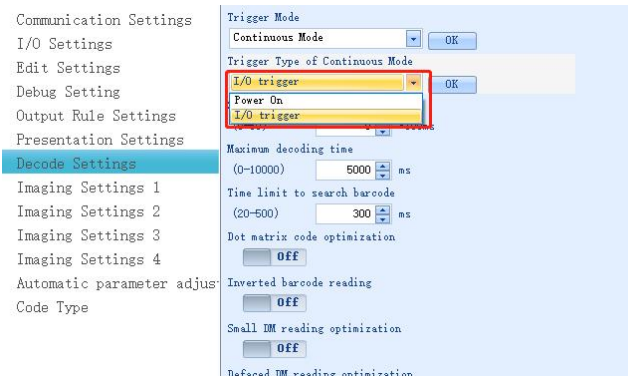
3. Special characters matching can be set for screening.

## 5-11 How to set the parameters for continuous triggering mode

1. In the trigger mode, the continuous trigger mode can be selected.

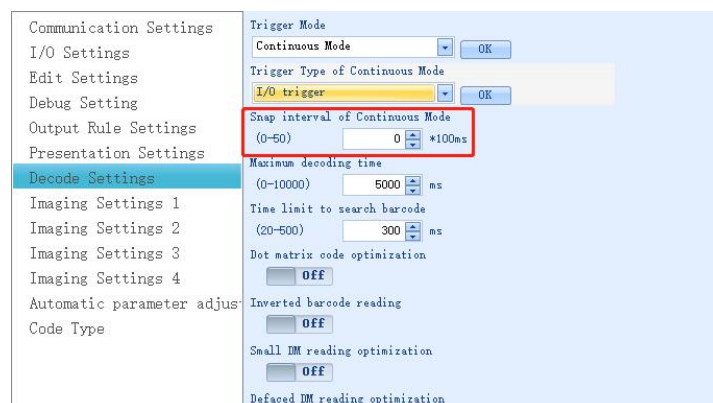


2. The startup modes of continuous triggering mode are booting up and I/O trigger. The default is I/O trigger.



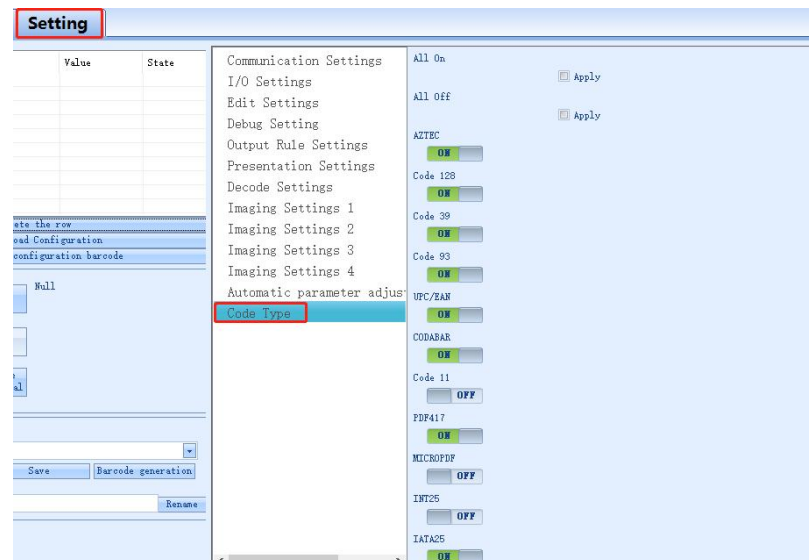
Shooting interval in continuous trigger mode.

The default value is 1\*100ms, optional 1-50, which can be set according to actual application requirements.



## 5-12 Setting readable code system

1.The setting interface -- code system information can be set.



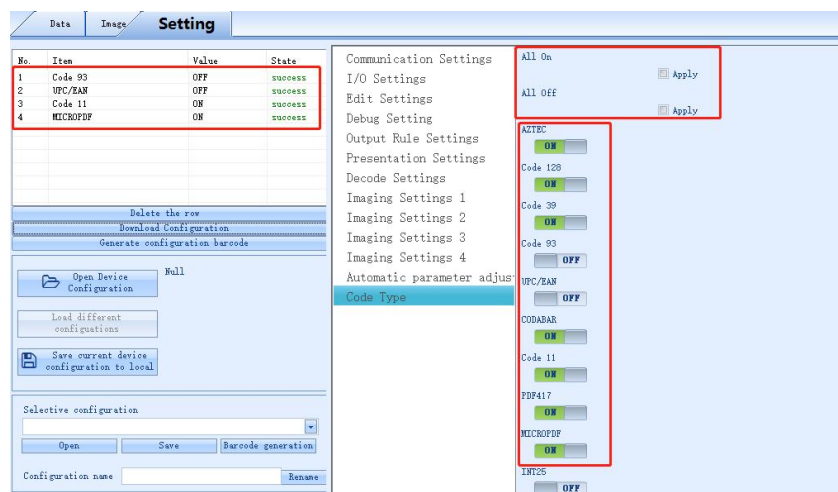
2.Code system setting.

Full code system on: After checking, set the download, you can open all code system.

Full code system off: After checking, set the download, you can turn off all code systems.

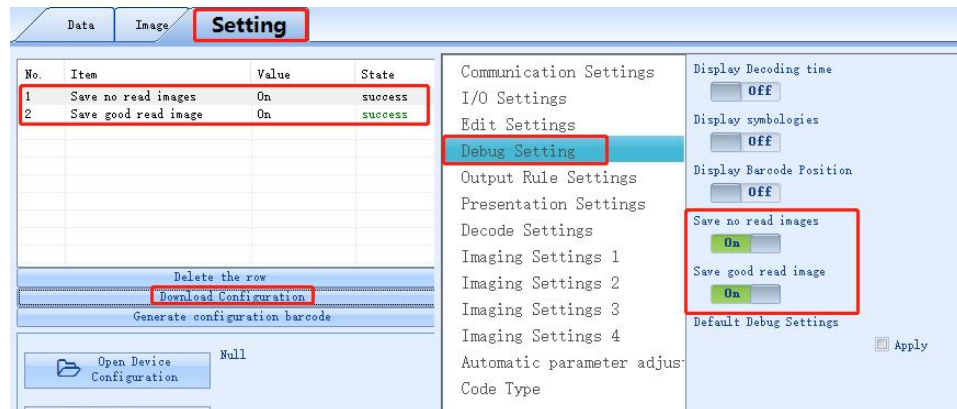
A code system can be turned on or off separately, each code system has a corresponding switch button.

In applications, unnecessary code systems can be turned off, which can improve decoding efficiency.



## 5-13 How to set to get the images of successful/failed decoding

1.Setting interface - save decoding success images and save decoding failure images sets in “Debug Setting”.



2.Image interface—obtain, you can view the latest image, successful decoding image and failed decoding image set.

The latest image: The latest image taken by the reader (success/failure).

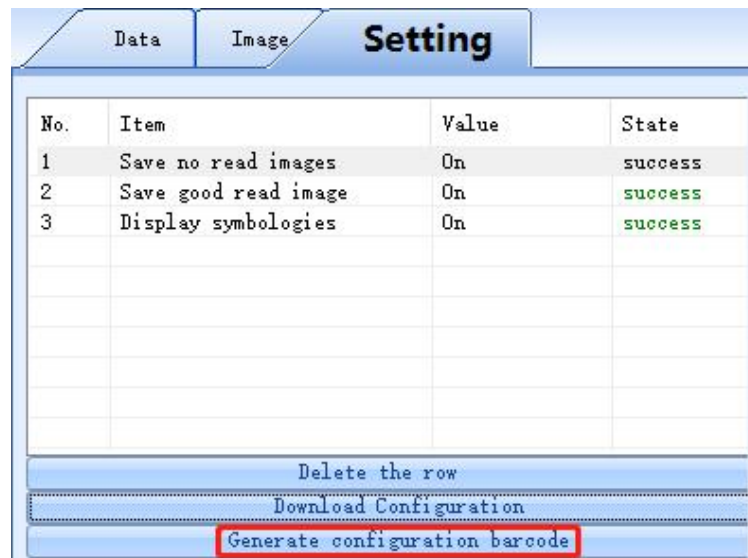
Successful decoding image: The latest image that the barcode reader successfully decoded.

Failed decoding image set: The latest image set that the barcode reader failed to decode.



## 5-14 How to generate a setting code from setting items

1. After selecting some download items with successful settings, click “Generate configuration barcode”;

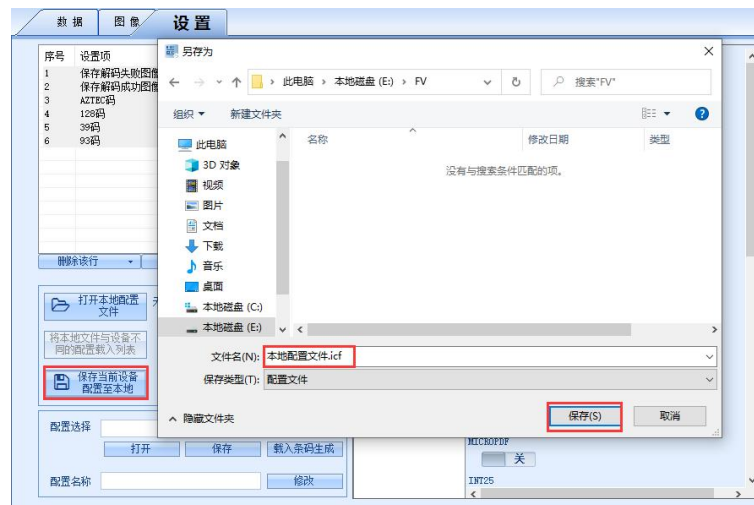


2. According to the prompt, it can be pasted into the word file or viewed in the image interface (the picture is viewed in the image interface) and the current parameter settings can be set by reading the setting code with the barcode reader.

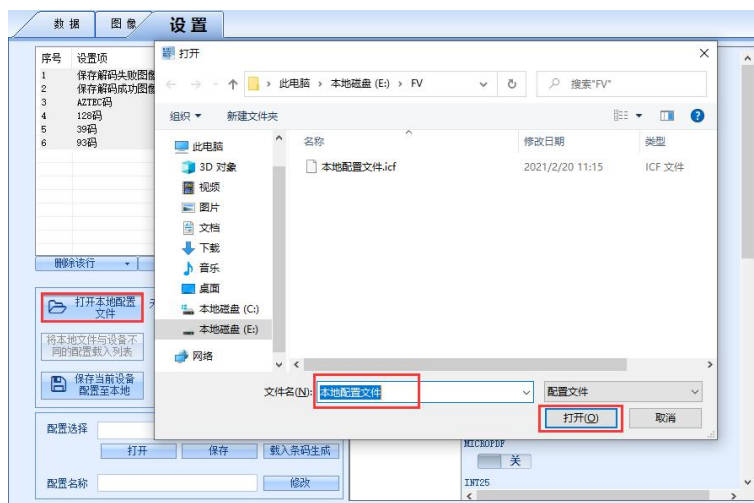


## 5-15 How to save and operate the configuration file

1. In the setting interface, click to save the current device configuration to the local storage;



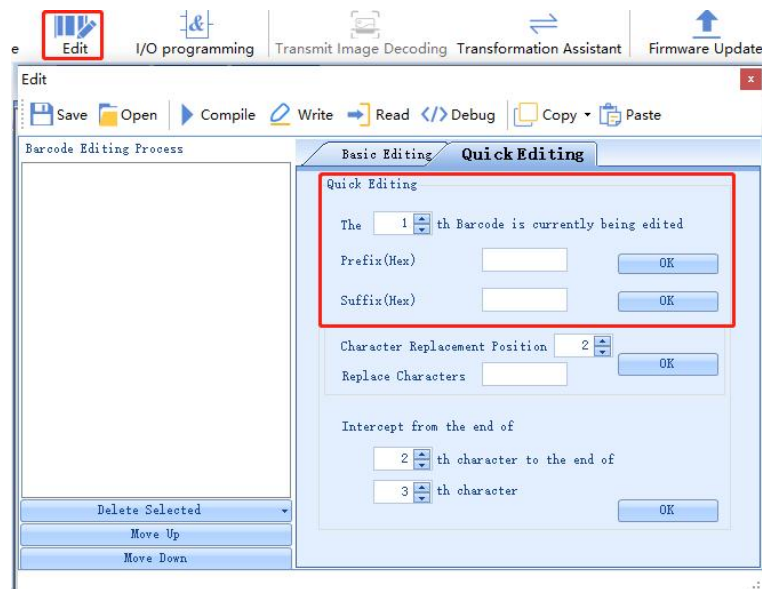
2. Click “Open Device Configuration”, select the corresponding configuration file, then the parameters of the saved configuration file will be imported into the device.



## 6 Settings for special applications

### 6-1 Setting the prefix or suffix

Open Edit



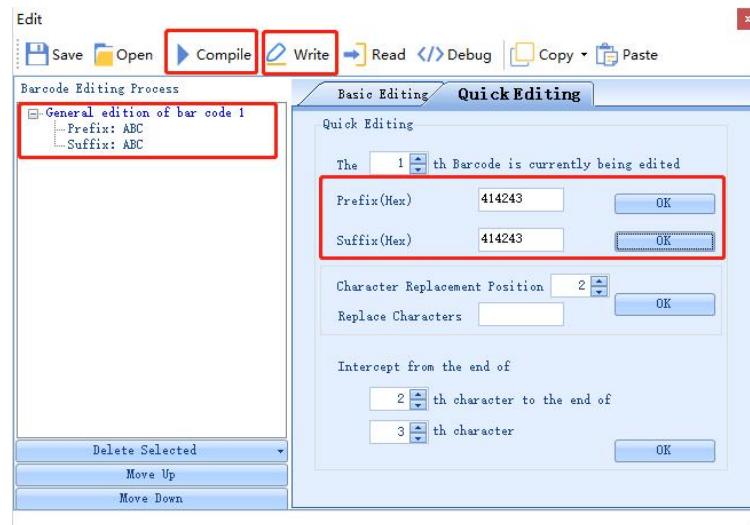
You can enter the required characters in the text boxes after the prefix and suffix. The input text is in hexadecimal, which can be converted by the conversion assistant.

If you want to add "ABC" characters before and after the barcode, open the conversion assistant, enter "ABC", it will be automatically converted to hexadecimal, click to copy the hexadecimal text.





Paste the copied hexadecimal text into the corresponding prefix character input box in the barcode editor. Confirm, compile, write.

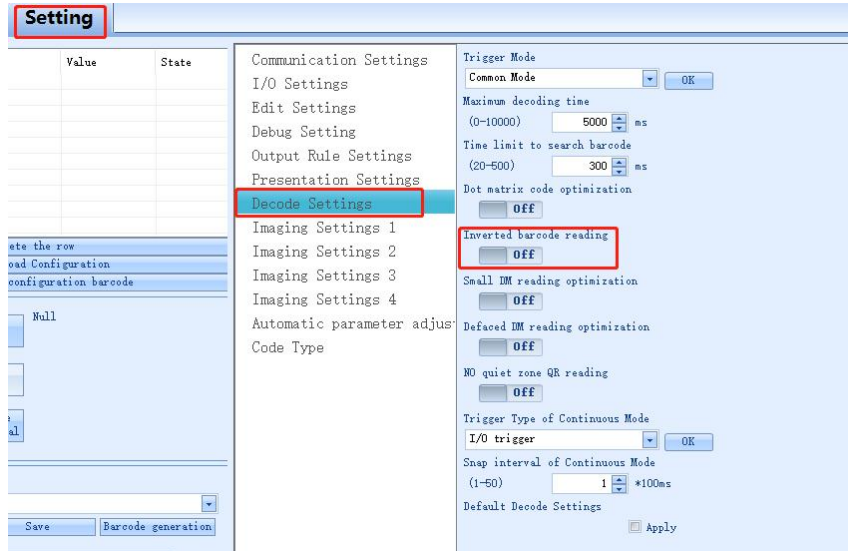


As shown in the figure, the barcode information prefix and suffix is "ABC".



## 6-2 How to read a color-reversed barcode

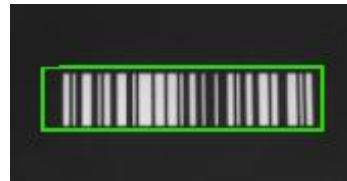
In the “Setting - Decode settings”, turn on the “Inverted barcode reading”, then set the download configuration.



Inverted barcode reading close :

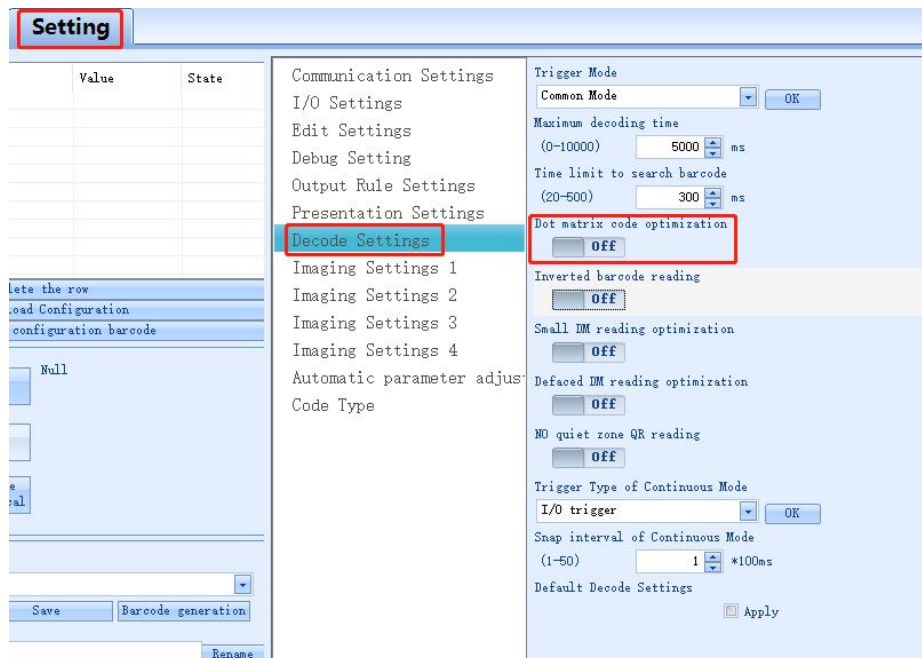


Inverted barcode reading open :

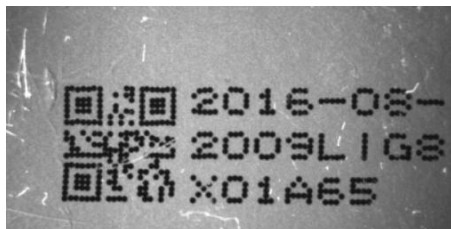


## 6-3 How to read Dot-matrix barcode

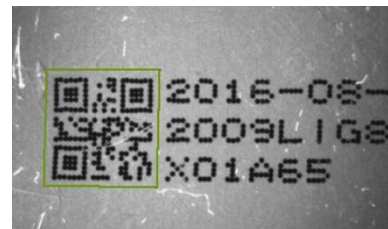
In the “Settings - Decode Settings”, turn on the “Dot matrix code optimization” and set the download.



Dot matrix code optimization close



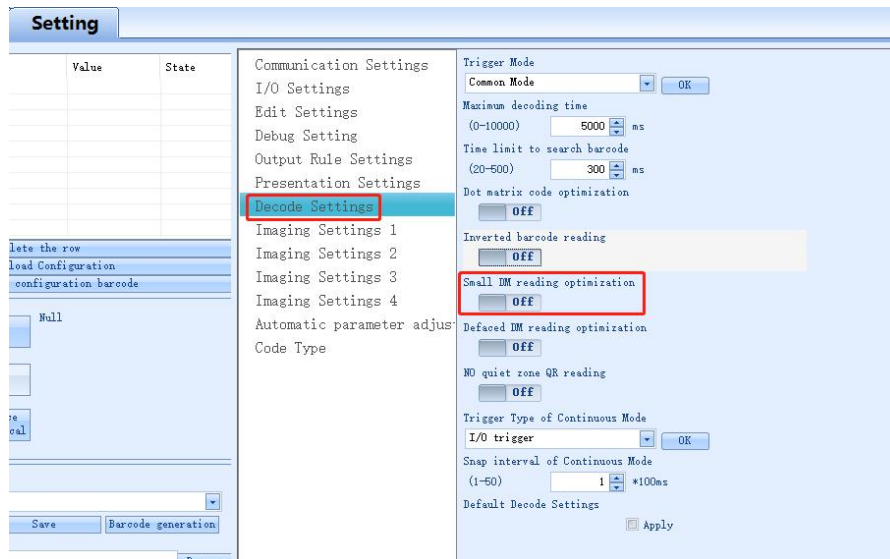
Dot matrix code optimization open



## 6-4 How to read small-sized or stained DM barcode

### Small DM reading optimization

In the “Setting - Decode Settings”, turn on the “Small DM reading optimization” and set the download.



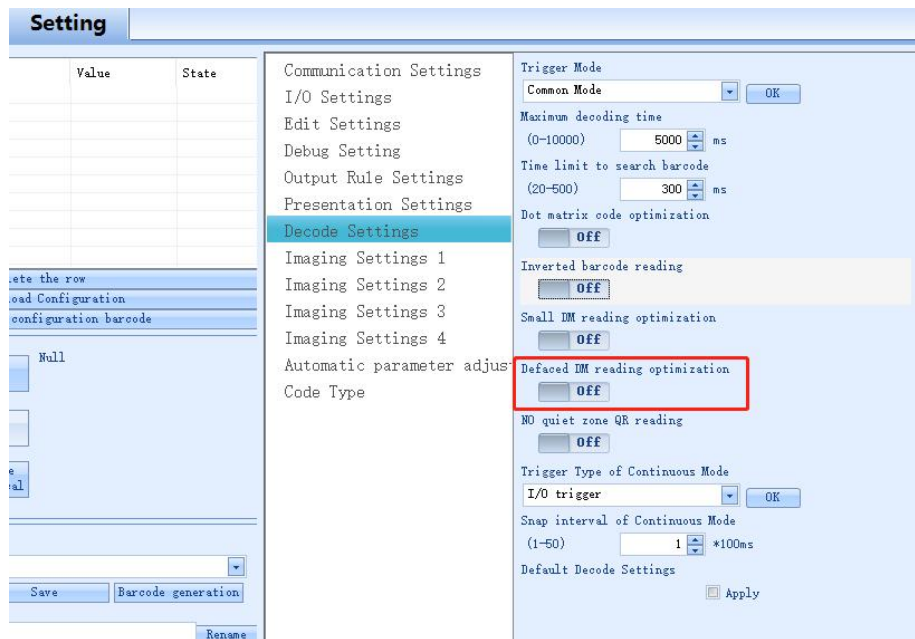
Small DM reading optimization close

Small DM reading optimization open



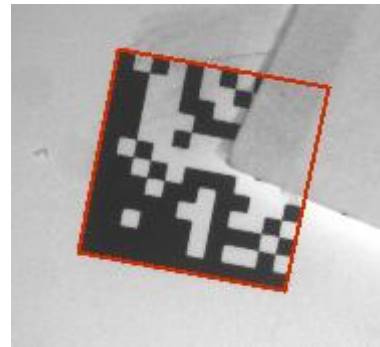
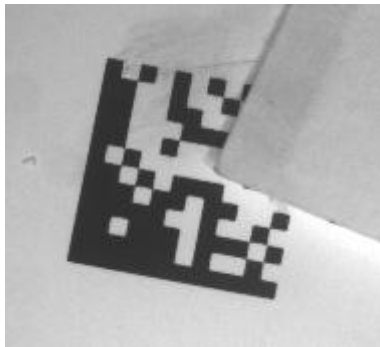
## Defaced DM reading optimization

In the “Setting - Decode Settings”, turn on the “Defaced DM reading optimization” and set the download.



Defaced DM reading optimization close

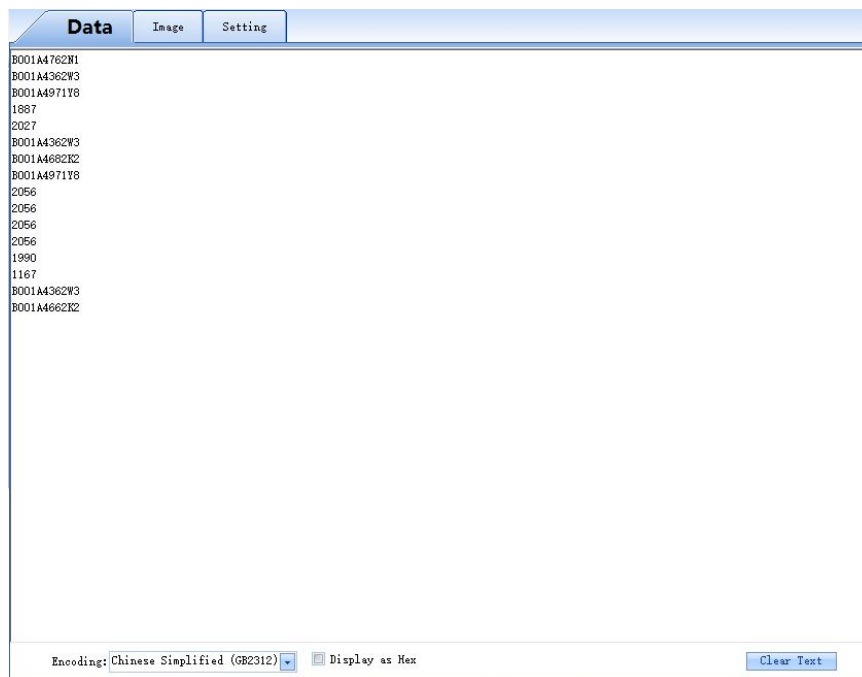
Defaced DM reading optimization open



## 7 Other settings

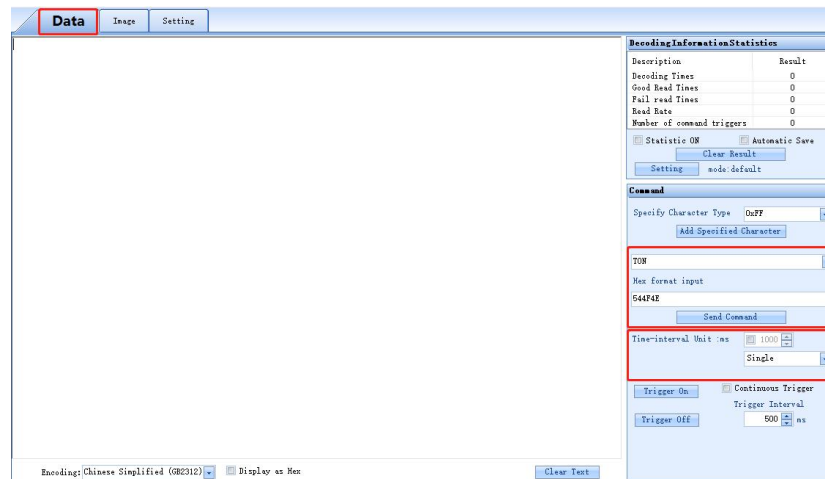
### 7-1 To view decoded data after settings

In the data interface, after the device is triggered, if the decoding is successful, the barcode information will be displayed. As shown in the figure:

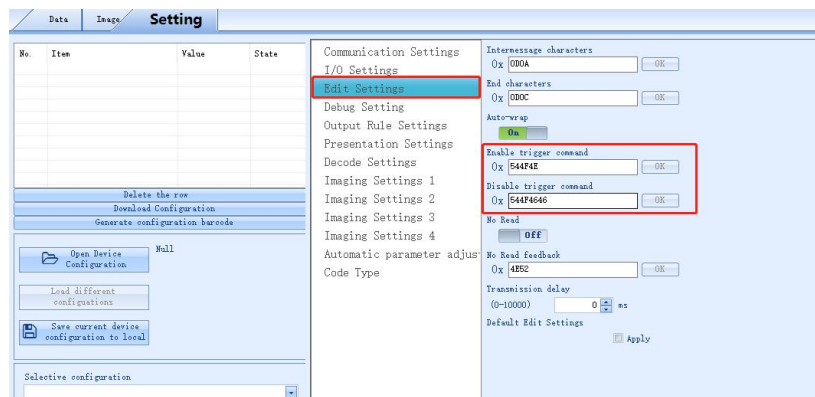


## 7-2 How to trigger the reader with computer command

In the data interface, select the corresponding command, and click “Send Command” to trigger the device. The device trigger command is "TON" by default, the cancel trigger command is "TOFF". The command trigger interval can be set and the time setting needs to be checked. The default is 1000ms/time.



If you want to change the trigger or cancel the trigger, you can change it in “Setting - Edit Settings”.



## 7-3 How to simulate keyboard input

Method 1, through the QHQ line

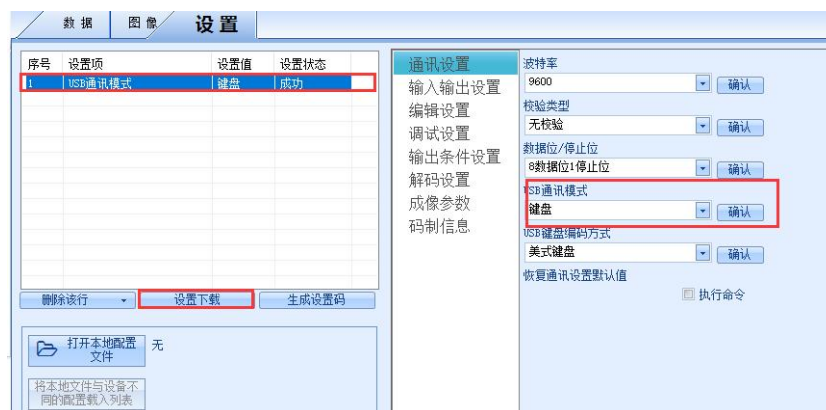
Connect the DB9 (male) end of the QHQ cable to DB9 (female) of the serial communication cable, connect the USB end to the PC end



In the communication settings, the baud rate is set to 9600 and set the download. Data output is keyboard input and data can be viewed in a text file (English mode).

**Note: QHQ cable is optional, if necessary, please ask our sales or technical personnel to purchase.**

Method 2: Change the communication mode USB port to USB keyboard port, the keyboard port output can be realized through the built-in USB cable.



**Note: If you want to change USB communication mode from keyboard to simulation serial port, scan the USB simulation serial port setting code.**



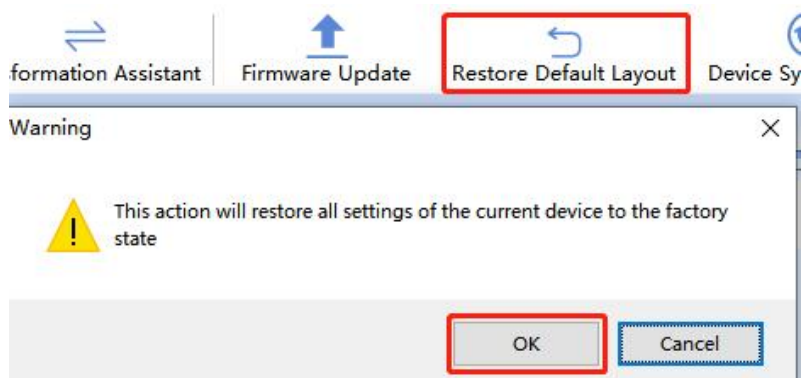
## 7-4 How to check the firmware version information of the reader

Click the Help button and click equipment Information to view the current device model, firmware version number, etc.

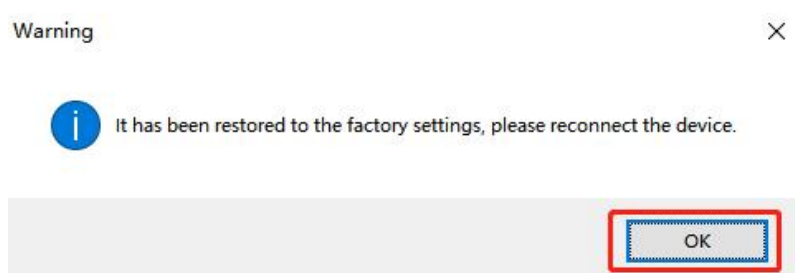


## 7-5 How to restore the factory settings of the reader

Click the "Restore Default Layout" button, click "OK".

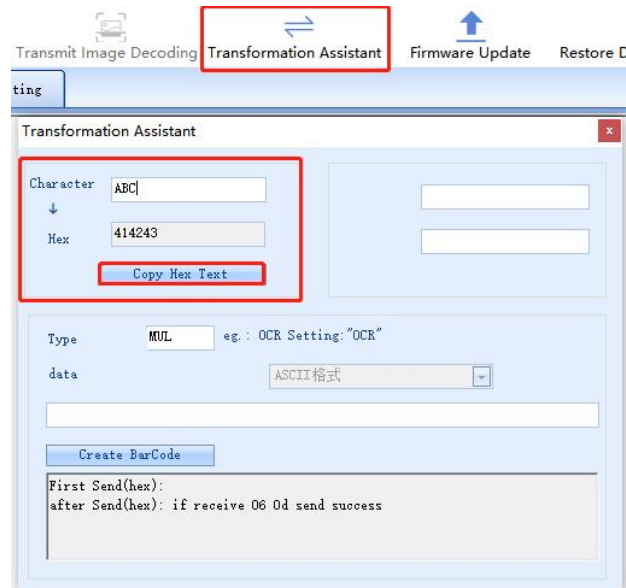


After hearing the device beep and seeing the success message, the device has been restored to the factory state successfully.



## 7-6 How to convert characters to Hex code

Click the Transformation assistant, input the required characters, it will be automatically converted to hexadecimal code, copy the content and paste it.



## 8 Factory settings description

Factory Settings description	
Serial communication mode	Baud rate: 115200; Check type: None Data bit: 8; Stop bit: 1
USB communication mode	Simulation serial port
Default trigger instruction	TON (544F4E) /16540d
Cancel trigger instruction	TOFF (544F4646)
Default read failure character feedback	close (NR, 4E52)
Default transmission delay	0 S
Decoding time, code system information, bar code location	close
Repetitive bar code shielding	close
Trigger mode	Fixed exposure mode
Default maximum decoding time/search time	10000ms/300ms
Dot matrix barcode optimization/reverse color code reading /DM small barcode optimization /DM stain code optimization reading/no static area QR code reading	close
Type of the enabled code system	128 code、39 code、93 code、AZTEC code、 DM code、QR code
Imaging brightness/light source	20/Combination of light

## 9 Device setting barcodes

### USB communication mode



Simulation serial port



Keyboard port



Close the USB communication mode

### USB keyboard encoding mode



American keyboard



Chinese Keyboard (UTF-8)



Chinese Keyboard (GBK)

### Interface settings

#### RS232 baud rate setting



4800



9600



19200



38400



57600



115200

## Serial communication parameters



No check



Odd parity



Even check



7 Data bit 1 Stop bit



7 Data bit 2 Stop bit



8 Data bit 1 Stop bit

Scan the bar code on the right to restore the default communication settings. Restore the serial port communication parameters to baud rate: 115200; Parity check: No; Data bit: 8; Stop bit: 1

Restore default communication settings

USB communication mode: simulation serial port

USB keyboard encoding mode: American keyboard



Restore default communication setting

## Input/output settings

### Buzzer on and off



Buzzer on



Buzzer off

### I/O high/low level triggering



I/O level drops



I/O level rises

## **Laser aiming**



Laser aiming on



Laser aiming off

## **Pulse width of successful/ failed reading**



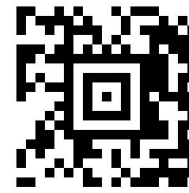
Reading success 50ms



Reading success 500ms



Reading success 1000ms



Reading failure 50ms



Reading failure 500ms



Reading failure 1000ms

## **Edit settings**

### **Reading failure feedback**



Open reading failure character feedback



Close reading failure character feedback

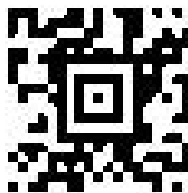
### **Suffixes**



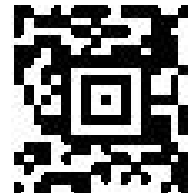
Wrap on



Wrap off



Enter



Restore barcode suffix to default

## **Configuration settings**



Open decoding time



Close decoding time



Save the failed decoding image



Close the function of saving  
failed decoding images



Save the successful  
decoding image



Close the function of saving  
successful decoding image

## **Induction settings**

### **Induction trigger setting**



Open induction trigger



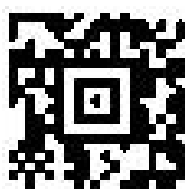
close induction trigger

## **Decoding settings**

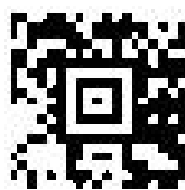
### **Maximum decoding time**



Maximum decoding time 0s



Maximum decoding time 1s



Maximum decoding time 5s



Maximum decoding time 10s

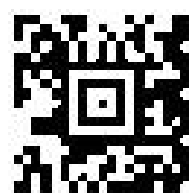
## **Repetitive barcode shielding settings**



Open repetitive barcode shielding



Close repetitive barcode shielding



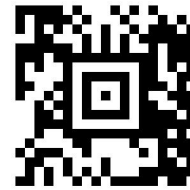
Repetitive barcode shielding 0s



Repetitive barcode shielding 1s



Repetitive barcode shielding 5s



Repetitive barcode shielding 10s

## **Reading optimization settings**



Open dot matrix barcode  
optimization



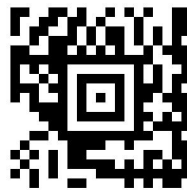
Close dot matrix barcode  
optimization



Open reverse color code  
reading optimization



Close reverse color code  
reading optimization



Open dot matrix small  
barcode reading



Close dot matrix small  
barcode reading



Open dot matrix stained  
code reading optimization



Close dot matrix stained  
code reading optimization



Open no-static-zone QR  
code reading optimization



Close no-static-zone QR  
code reading optimization



## **Trigger mode**



Fixed exposure mode



Dynamic exposure mode

## **Imaging parameter settings**

### **Lighting mode**



All out



Main body light



Auxiliary light



Combined light

## **Imaging brightness settings**



Imaging brightness 0



Imaging brightness 20



Imaging brightness 100



Imaging brightness 240

## Code system



Turn on all code systems



Close all code systems



Turn on 128 code



Close 128 code



Turn on 39 code



Close 39 code



Turn on UPC/EAN code



Close UPC/EAN code



Turn on DM code



Close DM code



Turn on QR code



Close QR code



Turn on AZTEC code



Close AZTEC code



Turn on PDF417 code



Close PDF417 code