CodeBarConfigTool

User Guide

V5.6.5

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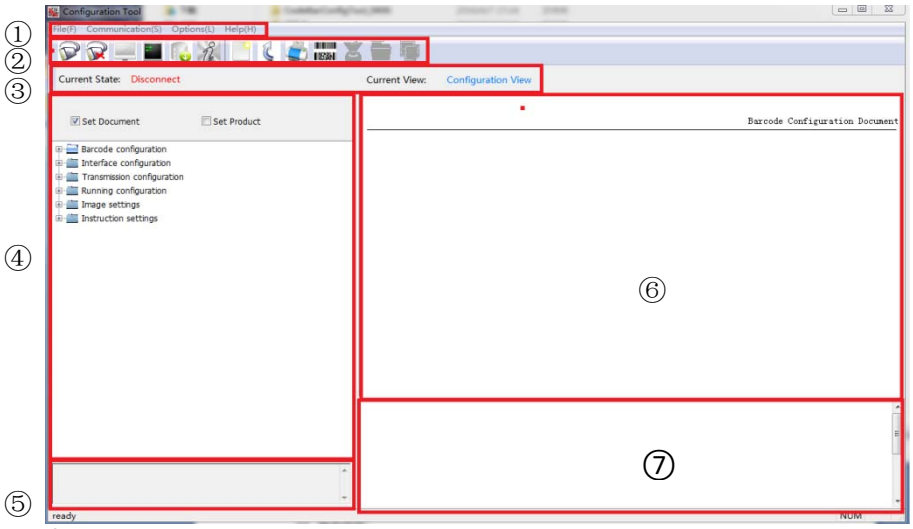
Configuration tools overview

1. profile

Bar code scanning equipment main configuration tool to complete the scanning device status information readsFunction set read and write access scanning devices and other information command. Barcode scanning devices based on communication protocols, interface, more intuitive and easy for users to various configuration for a barcode scanning device, and ignore the content of specific communication protocols.

Tool is a way to interact via a serial port or virtual serial portAnd communicating with the scanning device, as long as the devices in the PC end of the corresponding serial port, the configuration tool can be used.

2. The basic interface layout description



①、Menu bar



②、shortcuts



(1)(2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)

(1)Connect and disconnect

(2)Reading result output

(3)Command interactions

(4)Firmware download

(5)Device information

(6)Empty document

(7)Unset

(8)Print a document

(9)Bar code conversion

(10)Image extraction

(11)Save image

(12)Decode saved

③ device status bar

Displays the current connection status of the device, and displays the status of current configuration tools.

④ the configuration column

(1)Configuration status

Build configuration barcode check, you can generate the corresponding configuration options to the right of the configuration bar codes;

Modify the device parameter check can be directly connected device configuration item to modify it accordingly.

(2)Configuration options

Configuring for different needs.

⑤ configuration definition

Explain the configuration options for the current。

⑥ configuration display bar

To display the corresponding status, configure the bar code, or output, or collection of images.

Sadly, communications data bar

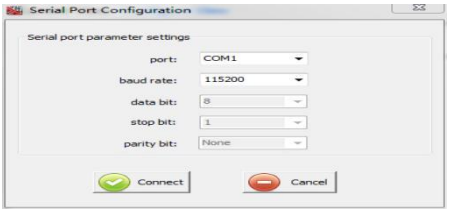
When displaying the serial communications, sending and receiving data,16 hexadecimal display.

Connection and configuration

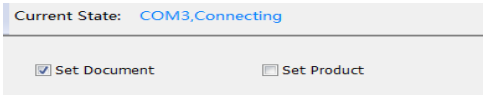
1. Device connection and disconnection

1.1. Connected devices

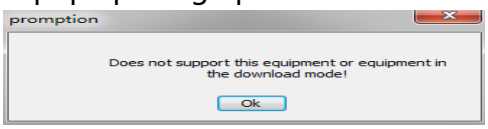
Click on the appropriate icon, and select the appropriate port (device can only be configured as a serial port or virtual serial port can be configured). Corresponding parameter defaults as shown in the figure.



When the connection is successful, the "device status bar " displays connection information, as shown below

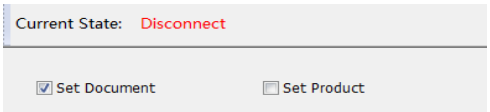


Connection error unable to connect, the connection failure dialog box will pop up the graph below



1.2. Disconnect your device

Disconnect disconnect icon to it directly. "Equipment status bar " show connection information:



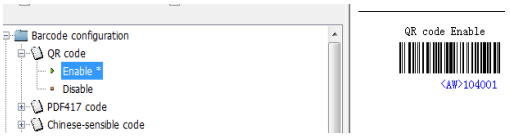
2. Device configuration

2.1. Configuration methods

Configure device two ways: scan configuration bar codes, tools, interactive configuration.

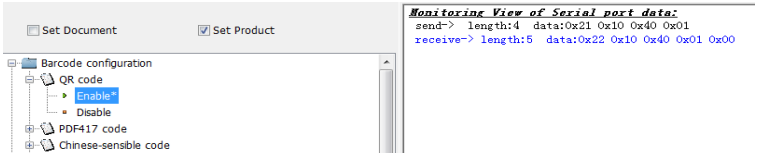
a.Scan configuration bar codes

Select " build configuration bar codes " option, double-click any one of the settings in the left tree branch, then on the right "configuration display bar " shows it to have a barcode scanning device is scanned directly, and then scan it with success two tone, this configuration has been set successfully.



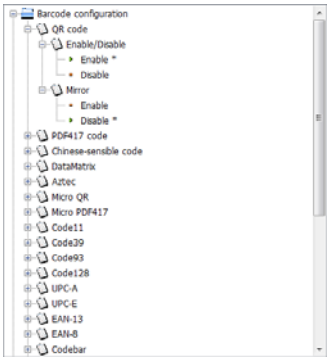
b.Tools interactive configuration

After the connection is successful, select " modify parameters ", double-click on the left of any item in the tree branch is set, the tool sends configuration protocol data, scan feedback successfully, the configuration has been set successfully. An asterisk "*" will appear in the final set after the following figure



2.2. Bar code configuration

Bar code sets are mainly enabled for a variety of system code setting on and off, calibration function setting，mirror function setting



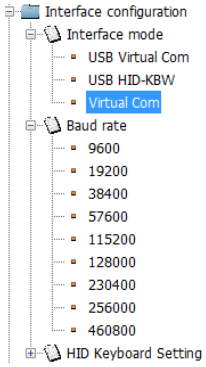
If you want to enable the code system, you simply double click the settings, the corresponding * when you change to the settings. And vice versa.

2.3. Interface configuration

Interface configuration you can configure the interfaces of the device, as well as the baud rate of the serial port, set as above.

Currently only the serial port, virtual serial port and HID(keyboard output) can be set in two modes. Configurations need to be powered on again after the finish. (Only support the HID interface device, if the device supports HID interface, please consult your local dealer.)

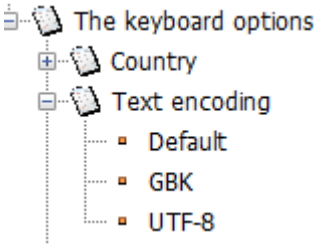
Serial port setting to select the baud rate, the following figure



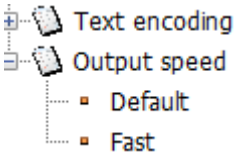
Keyboard keyboard type of output you can choose a different country, as shown below



Barcode encoding format，as shown below



The keyboard output characters speed,as shown below



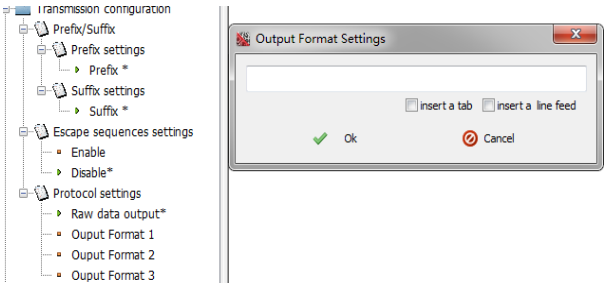
2.4. Transport configuration

Transport configuration users can decode and output data after the add custom data output with the decoded data.

2.4.1.Message prefix, suffix and message

Can be set in front of the decoded data or add the appropriate character. Tabs and line breaks will increase if checked, if you do not tick the Cancel.

Prefix or suffix is empty, without prefix or suffix for output.



2.4.2.Escape conversion

Device settings escaped definition, setting single escape character in the decoded data will be converted to actual characters, including:\a Bell \b Backspace \f form \n line \r carriage return \t horizontal tab \v vertical tab stops \' single \" Double quote \\ backslash.

2.4.3.Protocol configuration

Device preset 4 kinds of output format:

Raw data output: only the actual decoded data

Protocol format 1:[0x03][data the total length (2 bytes)][code data]

Protocol format 2:

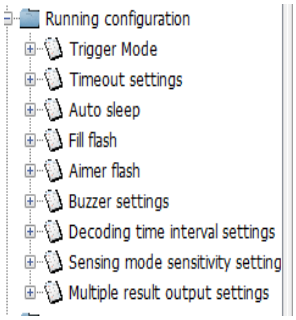
[0x03][data the total length (2 bytes contain the CRC)] [bar code number (1 byte)][code 1 data length (2 bytes)][code 1 data] ... [CRC checking (all data before the CRC check)]

Protocol format 3:

[0x03][data the total length (2 bytes contain the CRC)] [bar code number (1 byte)][code 1 type (2 bytes)][code 1 data length (2 Bytes)][code 1 data] ... [CRC checking (all data before the CRC check)]

2.5. Run configuration

Running configuration can trigger mode of the equipment running, running status, status of the buzzer lights sets the output status and results.



2.5.1.Trigger mode

Press the key mode: the user trigger button to start working. Read automatically stops at the end.

Continuous mode: user-triggered buttons, continuous reading. User trigger button again, the device stops working.

Automatic mode: automatic access continuous reading on the device status keys no longer work.

Sensor mode: device into standby when barcodes are detected after the system startup appears to begin decoding, no stop decoding when barcodes are detected.

Wave pattern: when the trigger is pressed to begin decoding, over a period of time to stop decoding. Time is determined by the timeout is triggered.

Move mode: enters a moving object is detected in the shooting range, began decoding is not detected then the idle monitor State

2.5.2.Time-out settings

Trigger timeout:Used to set the timeout is triggered. In wave mode, to stop decoding the timeout

Speed timeout:Set into the shallow sleep need time.

2.5.3.Auto sleep

Device settings automatically after the sleep mode, press mode, continuous mode, wave mode, idle state, automatically goes into sleep mode, the device no longer decode, especially for mobile devices, you can significantly save power.

2.5.4.Fill light

A.fill light settings: you can set the State of the fill light.

Four settings: off, flashing, decoding, power always

B ...sensing idle settings: you can set the fill light idle state

Two modes: bright, close

2.5.5.Position light

A.positioning lights: status of the positioning signals can work.

Four settings: off, flashing, decoding always

B ...sensing idle settings: you can set positioning light idle state

Three modes: off, often bright, blinking

2.5.6.Buzzer configuration

a.Buzzer volume control: you can set the buzzer when the volume status

b.Buzzer: admin can set after a successful reading, number of buzzer.

2.5.7.Decoding time interval

a.Different results between different decoding or decode the barcode type interval when long.

b.Same result interval: the results of decoding the same case, decoding output interval length.

2.5.8.Induction pattern sensitivity setting

Barcodes are detected in induction mode sensitivity.

2.5.9.Multiple output settings

a.Feature: set code decoding enabled and shuts down

b.Output bar code number set: sets the maximum number of decoding output

c.Incomplete output settings: when decoded when the maximum number of output quantity is not reached, configure whether to output the decoded data

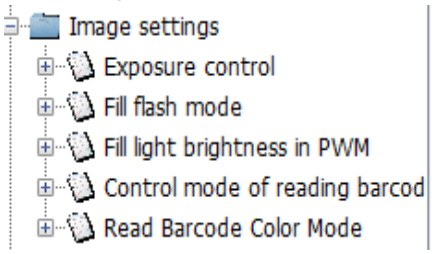
d.Barcode output timeouts: multiple barcode decoding time interval between, this code recognize the end of the time-out is considered

e.Barcode separator settings: add custom symbols across multiple barcodes, data classification labels

f.Barcode output order: set up multiple bar code barcode types

2.6. Image settings

You can set the exposure value in the image acquisition process, fill light operation mode, light dimming, this setting is more professional setting under the guidance of the technical support engineer.

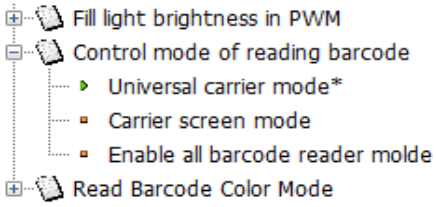


Read bar code mode control:

Universal carrier models: decoding universal carrier mode, identifying non-mobile phone, display spontaneous fluorescence objects such as QR code

Carrier screen mode: decoding the carrier mode the screen, identify similar handsets, display spontaneous fluorescence objects such as QR code

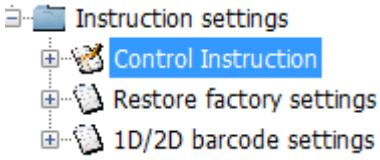
Common carrier and carrier compatibility mode on the screen: decoding universal carriers and screen vector mode



Identifying barcode color mode: when when the barcode module shades in contrast to standard, you can set the reverse mode.

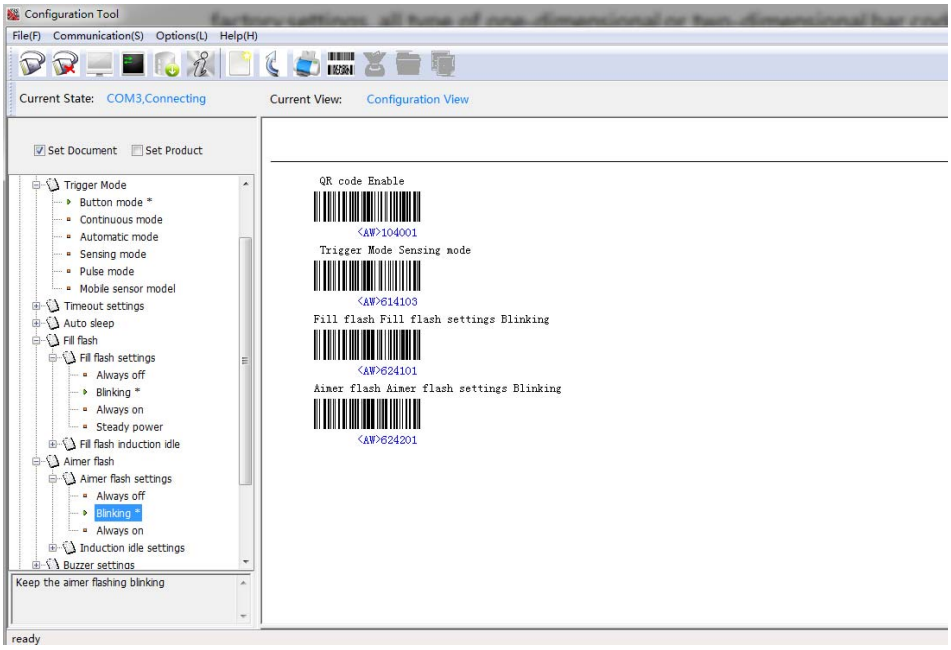
2.7. Instruction sets

Through the control command was done by scanning equipment setting or working conditions. Including direct control to begin decoding,deep sleep, restore factory settings, all type of one-dimensional or two-dimensional bar code on or off.

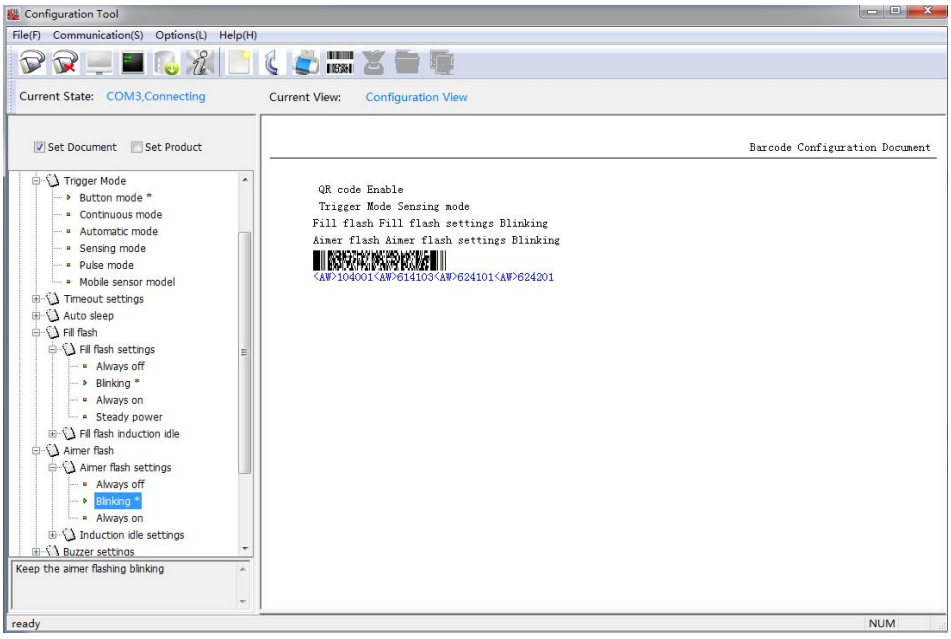


2.8. Bar code conversion

In the actual needs of users for multiple configurations of equipment, has resulted in a number of single configuration bar codes on the right side, bottom:



At this time, click the bar code change button, the configuration tool will configure all generate a PDF417 barcode, follow-up of the equipment require identical settings, you only need to read a bar code.



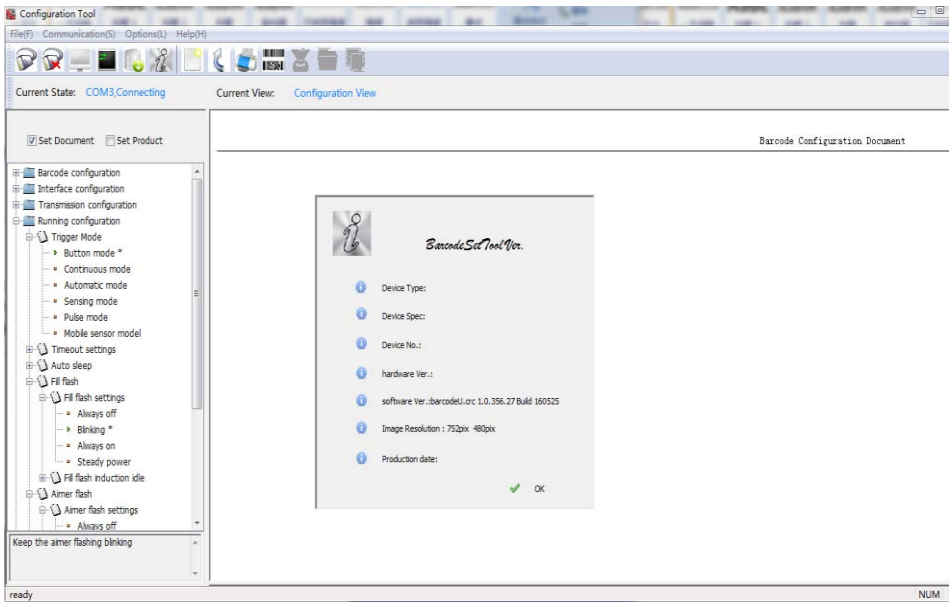
2.9. Document printing

Equipment Setup, if you select settings related to bar code or generate the converted a PDF417 barcode. Can also print the document, the device can be set directly by scanning the paper settings.

Device info view

View device type, serial number, production date, firmware version and other information.

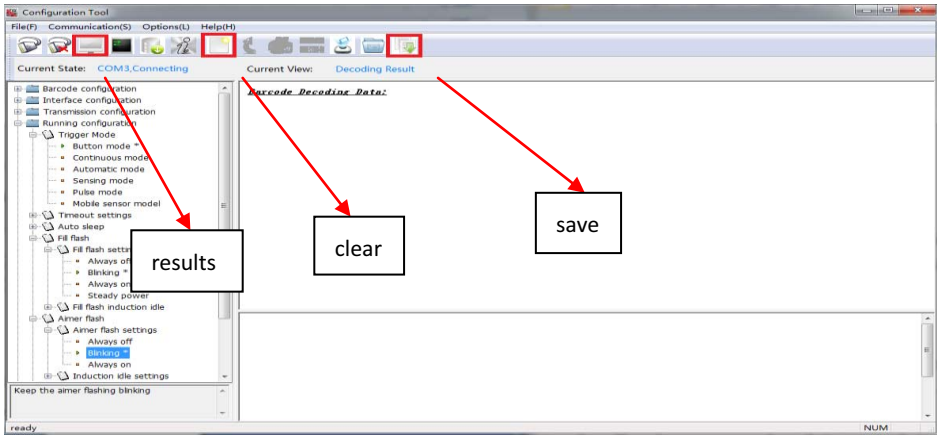
In the connection state, click "decode the output" icon, then click " device version " icon, device version information dialog box will pop up.



Read results and image viewing

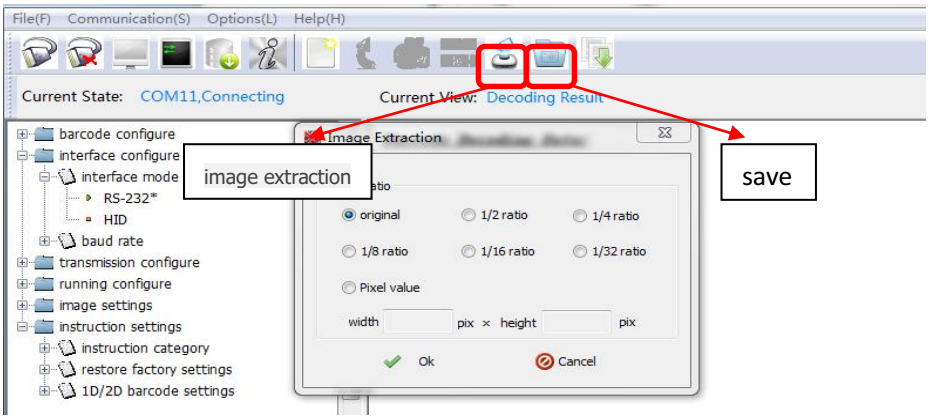
1.Reading the results view

Click on "decoding output " icon, switch to output data display on the right side, when after a successful decode, decodes the data interface is displayed in the following.

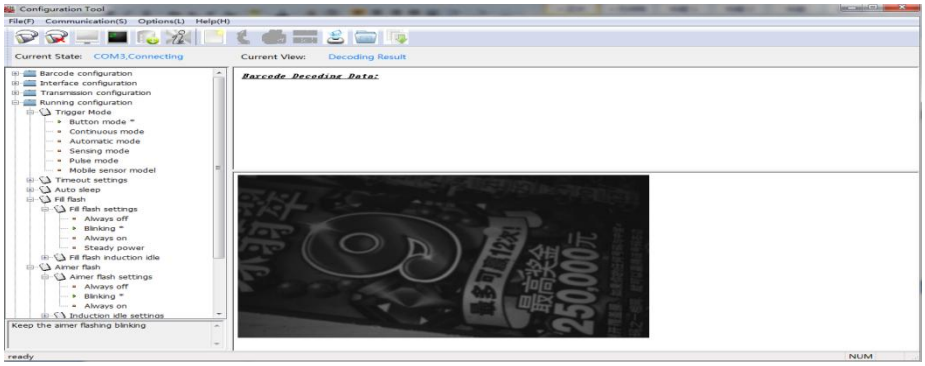


2.Capture images to view

Click on the image to extract icons, you can extract the image of the current collection. After extracting, you can also save the corresponding image.



Select the image size you start uploading images receive data complete is displayed in the lower right box in the following figure:

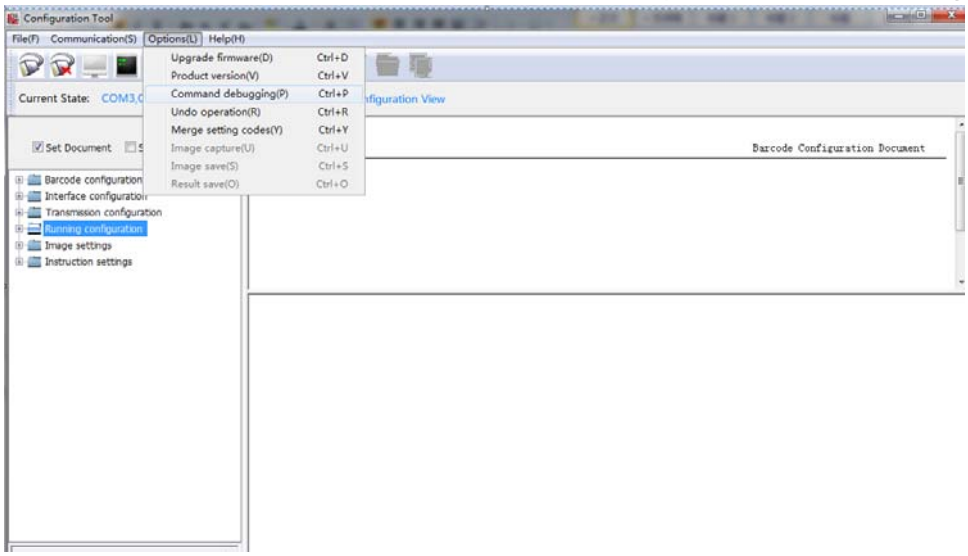


Communication protocol interactions

Bar code equipment can send commands through serial communication-related configuration and settings. In the configuration tool can also send commands to configure.

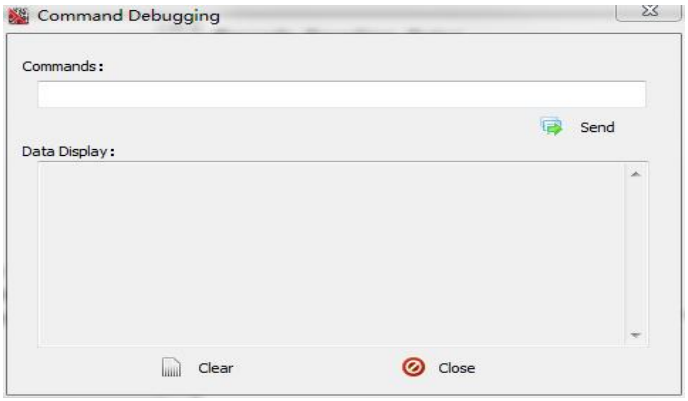
1.Command interactions

Select a command in the menu bar interactive options, as shown in Figure:



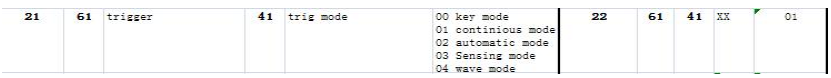
2.Enter the command

Pictured below, the corresponding dialog box will pop up, you can enter commands. Communication protocol specific commands are available in the reading module 2.0 instructions table in the query.



Example: the module is set to automatic recognition mode

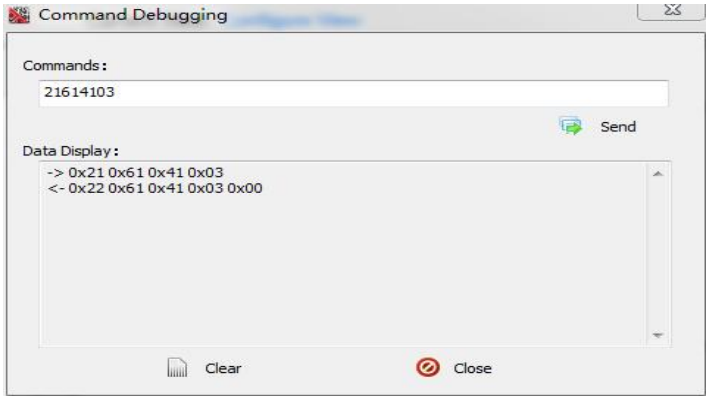
a.Found in the instruction list related commands are as follows:



21	61	trigger	41	trig mode	00 key mode 01 continious mode 02 automatic mode 03 Sensing mode 04 wave mode	22	61	41	XX	01

Should be: 21614103

b.In the command box, enter the command and send:



c.In the data display area and right arrow (->) displays the data sent is left arrow (<-) displays the returned data. According to the table of instructions, return instructions in the 0x00, represents a legitimate and has been set successfully.

Firmware upgrade

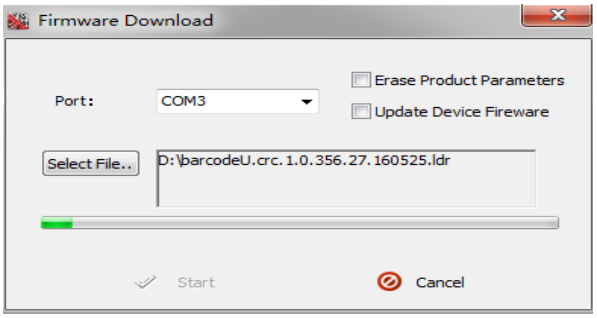
Firmware upgrade in two ways: online upgrades and repair firmware upgrade

1.Online upgrades

Connect device to PC , after a successful start, select firmware download icon directly, no need to connect the device



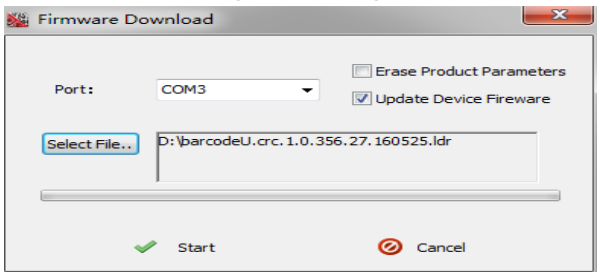
In the firmware download dialog box, select the scan device string that corresponds to the number. If you want to erase the existing configuration information and restore to firmware the default configuration, you can select the device parameters erase option. Select the firmware file, click the Start button, device ring tone, enter the stage of upgrade, the progress bar indicating that the upgrade progress.



After the upgrade is complete, the device will automatically reboot, run the upgrade firmware.

2.Upgrade firmware repair

Keep the buttons pressed in (important step), electricity, equipment accompanied by a loud beep, enter Firmware fixes the upgrade status of the device. Click the firmware download link, download firmware dialog box pops up, as described above. Operation and upgrade online is basically the same, the only difference, at this point you need to select "repair firmware upgrade " option, and then begin the upgrade



Loaded, won't start, need to be powered on again.