

2D Barcode Scanner

User Guide

Troubleshooting //////////////////////////////////////

Problem	Possible Cause	Possible Solution
Scanner does not turn on	Power off	Insert the adapter.
	Interface fails	Check the cable.
Scanner power on, but it cannot read the barcode.	Did not enable the barcode	Please enable it.
	Scanner cannot read the barcode type.	Please contact the dealer or us
	Wrong distance.	Move the scanner.
Scanner does not send data to host computer	Scanner is not connected to the host.	Check all cable to host computer.
Receive garbled with Rs232	Scanner and the host baud rate settings are inconsistent	Check scanner an PC communication port baud rate settings are the same.

Version:1.0

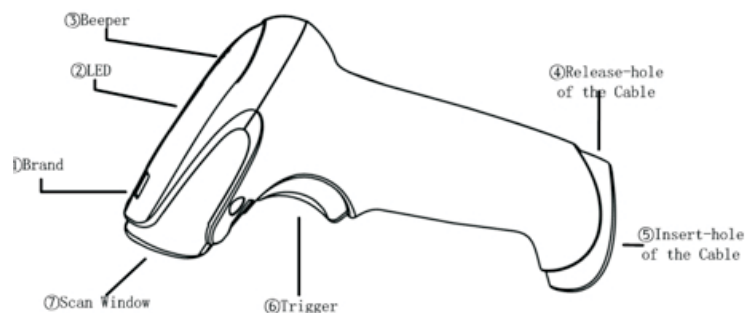
NOTE:

- For stability enhancement of scanner or other properties, Manufacturer may modify the software (including firmware).
- A standard packing includes a user guide, a cable and a Scanner

Profile

It is developed to meet the increasing needs of 2D barcode identification. It does not only accurately and quickly read both 1D and 2D barcodes, but also seamlessly captures barcodes on electronic screens (such as mobile phone) and provides an effective data acquisition tool for e-coupons and e-tickets. It's suitable for a wide variety of applications. Compared to the expensive imported scanners, It is definitely a cost effective and high performance product for you!

Parts of the Scanner



Profile

Input voltage	DC 5V± 0.25V
Power	1.40W (working) ; 0.40W (standby)
Current	400mA (Max) ; 300mA (working) ; 70mA (standby)
Image Sensor	752 × 480 cmos sensor
Rotational Sensitivity	±360°
Viewing Angle	±40°
Symbologies	PDF417, QR Code, Data Matrix, HanXin code, Aztec, etc Code 39, Code 128, Codebar, UPC, EAN, Interleaved 2 of 5, etc
Prompt	beeper, LED
Interface	USB VCP/USB HID
Trig mode	Hand-held/hand-free
dimension	L×W×H: 190mm× 65mm× 85mm
Weight	156g (without cable)
Cable	2m
Connector	RJ-45
Material	PC
Temperature	-5°C~ 45°C (working) ; -40°C~60°C (Storage)
Humidity	5%~95% (non-condensing)
Set mode	online/scanning
firmware update	online
Accuracy	≥ 5mil
depth of focus	40mm~300mm
security classification	EMC: EN 55022, EN55024 Electrical safety: EN 60950-1 Waterproof and dustproof: IP52

Installing the Cable //////////////////////////////////////

USB Cable

- 1.Refer to the picture, connect the host with the scanner;
- 2.Switch on the host. If the installation is successful, the beeper and LED will work.
- 3.Scanner can work without External power supply.
- 4.Host will automatically detect the scanner.



Rs232 cable



1. Make sure the power off.
2. Insert the RJ45 into the scanner.
3. Connect the RS232 to the host.
4. Plug the power adapter.
5. Power on the host. If connect right, it will prompt from beeper and LED.

Removing the Cable //////////////////////////////////////

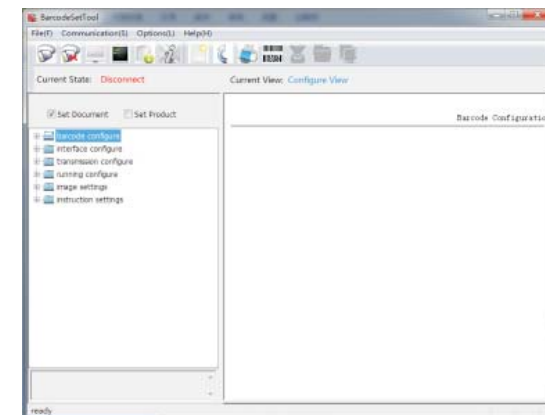


1. Find the release-hole.
2. Insert a thin wire into the hole and pull out the cable gently.

Parameter settings //////////////////////////////////////

Set from BarcodeSetTool

If the scanner is connected correctly, you can use the software of configuration management for the corresponding parameter settings



Please contact the local agency for the software.

Scan the barcode ////////////////////////////////////

1.Single Setting

Scanning the corresponding 'set barcode'.

Example: Scan the right barcode, set 'sensing mode'.

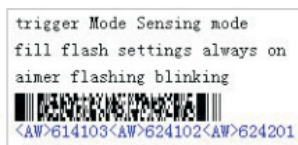


2.Multiple Setting

Reading 'Multiple setting code', You can perform a variety of functions set..

Example: Scan the right barcode, Set 'Sensing mode'

'Flash always on' 'aimer flash blinking'



**More ' Multiple setting code',
Please Contact local agents .**

Set up from the host ////////////////////////////////////

Note :

1 This section is suitable for the scanner with the RS232 cable or USB cable.

2 The scanner must be setup VCP mode for the USB type.

UART Parameters

- (1) Baud rate:115200 bps;
- (2) Data bits transmitted:8 data bits;
- (3) stop bits:1 bit;
- (4) parity check: NO;

3 protocols

Protocols command

Type	PID	FID	Parameter
1Byte	1Byte	1Byte	---

Instruction

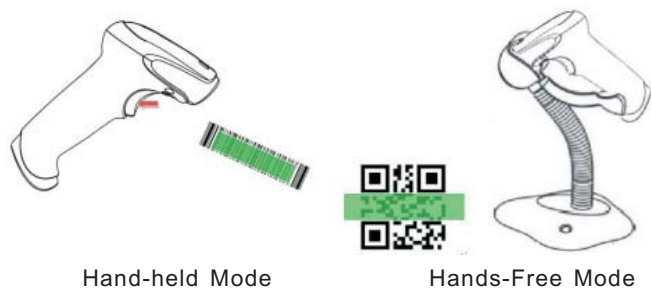
Type	Length	Describe															
TYPE	1Byte	Command type															
PID	1Byte	Property ID															
FID	1Byte	Function ID, FID as a parameter bytes instructions: <table border="1"> <thead> <tr> <th>7bit</th> <th>6bit</th> <th>parameter length</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>No</td> </tr> <tr> <td>0</td> <td>1</td> <td>1byte</td> </tr> <tr> <td>1</td> <td>0</td> <td>2byte</td> </tr> <tr> <td>1</td> <td>1</td> <td>>2byte</td> </tr> </tbody> </table>	7bit	6bit	parameter length	0	0	No	0	1	1byte	1	0	2byte	1	1	>2byte
7bit	6bit	parameter length															
0	0	No															
0	1	1byte															
1	0	2byte															
1	1	>2byte															
PARAM	---	Parameter length according to FID. If the length is longer than two bytes, The first two bytes of parameters indicate the length of parameters.															

Please contact the local agency for more information.

Scan

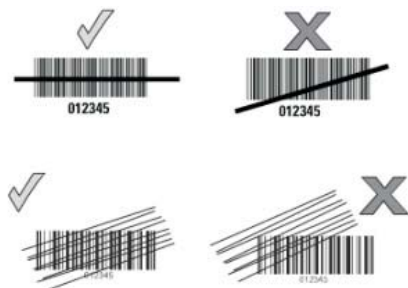
Hand-held Mode

- 1. Ensure Scanner, Cables, and the Host are connected, then turn the unit Power ON;
- 2. Press & hold Trigger. Illumination LED and Aiming LED cast an Illumination Pattern(red light)and an Aiming Pattern(green light).
- 3. On a successful reading, there will be a beep sound, illumination & aiming patterns die out. The scanner the transmits barcode message to the Host.



Hands-Free Mode

- 1. Select reading mode 'sensing mode'or'continuous mode',when working in hands-free mode.
- 2. Adjust the stand height for the optimum reading stance.



Beeper

Scanner through different buzzer to indicate status. It defines the different status in the following table.

Beeper	Instructions
2 short	Start
1 short	Success read

LED

Scanner also through different LED to indicate working status. It defines the different status in the following table.

LED	Instructions
OFF	Power off or standby.
Light for 1s	Success read

Setting Barcode //////////////////////////////////////

Instruction Settings >>>>>

Restore factory settings



Start decoding



Stop decoding



Disable all decoding



Enable 1D decoding



Enable 2D decoding



Enable all decoding



Barcode Configure >>>>>

2D barcode settings

QR code enable



QR code disable



PDF417 code enable



PDF417 code disable



Chinese-sensible
code enable



Chinese-sensible
code disable



DataMatrix code enable



DataMatrix code disable



Aztec code enable



Aztec code disable



Code11 Configure

Code11 code enable



Code11 code disable



Check digit verification disable



Check digit verification one digit



Check digit verification two digits



Check digit verification auto



Code39 Configure

Code39 code enable



Code39 code disable



Code39 verification disable Code32 verification



<AW>234100



<AW>234101

Code93 Configure

Code93 code enable



<AW>224001

Code93 code disable



<AW>224000

Code128 Configure

Code128 code enable



<AW>214001

Code128 code disable



<AW>214000

UPC Configure

UPC-A code enable



<AW>244101

UPC-A code disable



<AW>244100

UPC-E code enable



<AW>244201

UPC-E code disable



<AW>244200

EAN Code Configure

EAN-13 code enable



<AW>244301

EAN-13 code disable



<AW>244300

EAN-8 code enable



<AW>244401

EAN-8 code disable



<AW>244400

Codebar Code Configure

Codebar code enable



<AW>254001

Codebar code disable



<AW>254000

Codebar verification Enable



<AW>254101

Codebar verification Disable



<AW>254100

Standard 2 of 5 Code Configure

Standard 2 of 5 Code Enable



<AW>264001

Standard 2 of 5 Code Disable



<AW>264000

Verification Disable



<AW>264100

Verification Enable



<AW>264101

Matrix 2 of 5 Code Configure

Matrix 2 of 5 Code Enable



<AW>274001

Matrix 2 of 5 Code Disable



<AW>274000

Verification Enable



<AW>274101

Verification Disable



<AW>274100

Interleaved 2 of 5 Code Configure

Interleaved 2 of 5 Code Enable



<AW>284001

Interleaved 2 of 5 Code Disable



<AW>284000

Verification Enable



<AW>284101

Verification Disable



<AW>284100

MSI Code Configure

MSI Code Enable



<AW>2A4001

MSI Code Disable



<AW>2A4000

Verification Disable



<AW>2A4100

Verification Enable



<AW>2A4101

Gs1 Databar Code Configure

Gs1 Databar Omni-
Directional Enable



<AW>2B4001

Gs1 Databar Omni-
Directional Disable



<AW>2B4000

Gs1 Databar Limited Enable



<AW>2B4101

GS1 Databar Limited Disable



<AW>2B4100

Gs1 Databar Expanded Enable



<AW>2B4201

GS1 Databar Expanded Disable



<AW>2B4200

Plessey Code Configure

Plessey code enable



<AW>2C4001

Plessey code disable



<AW>2C4000

China Post Code Configure

China Post code enable



<AW>2D4001

China Post code disable



<AW>2D4000

Interface Configure >>>>>

Uart



<AW>424000

USB HID



<AW>424001

Uart baud rate 9600



<AW>414107

Uart baud rate 19200



<AW>414108

Uart baud rate 38400



<AW>414109

Uart baud rate 57600



<AW>41410A

Uart baud rate 115200



<AW>41410B

Uart baud rate 12800



<AW>41410C

Uart baud rate 230400



<AW>41410D

Uart baud rate 25600



<AW>41410E

Uart baud rate 460800



<AW>41410F

Note: Baud rate settings is set only for RS232 scanner. In VCP mode, baud rate is in Adaptive mode. You must set baud rate in 115200.

Transmission Configure >>>>>

Prefix settings insert 'tab'



<AW>51C1000109

Prefix settings insert '\r\n'



<AW>51C100020D0A

Suffix settings insert 'tab'



<AW>51C2000109

Suffix settings insert '\r\n'



<AW>51C200020D0A

Symbology identifier enable



<AW>514401

Symbology identifier disable



<AW>514400

Keyboard Layout >>>>>

USA



<AW>434000

Spanish



<AW>434001

German



<AW>434002

French



<AW>434004

Italian



<AW>434005

Sweden



<AW>434006

UK



<AW>434008

Brazil



<AW>43400A

Latin America



<AW>43400B

India



<AW>43400C

Korea



<AW>43400D

Russia



<AW>43400E

Running Configure >>>>>

Trigger mode

Trigger mode



<AW>614100

Continuous mode



<AW>614101

Automatic mode



<AW>614102

Sensing mode



<AW>614103

Pulse mode



<AW>614104

Auto sleep Settings

Auto sleep enable



<AW>614301

Auto sleep disable



<AW>614300

Auto sleep Settings

Always off



<AW>624100

Blinking



<AW>624101

Always on



<AW>624102

Aimer flashing

Always off



<AW>624200

Blinking



<AW>624201

Always on



<AW>624202

Buzzer Settings

Low Volume



<AW>634100

Medial Volume



<AW>634101

High Volume



<AW>634102

Buzz Num 0



<AW>634200

Buzz Num 1



<AW>634201

Buzz Num 2



<AW>634202