2D Barcode Scanner User Manual

for C-7080i

V1.0

Chapter 1 Comprehensive Settings

1.1 Version number

Use the scanner to scan the version number barcode, you will view the information of current scanner version.

BeReCd

Version number

1.2 Factory Default

All scanners have a factory default setting. The scanner's properties will be set to the default state of the software with scanning the "Factory Default" setup code.

BeQeCe

Factory Default

1.3 Sound settings

All Sounds

WaZaCb

On*

WaZaSa

Off

Power-on Sound

Turn on or turn off the beep sound when starting up

RaOdNa

On*

RaOdXa

Off

Sound of reading normal barcode successful

RaDeXa

On*

RaDeNa

Off

Duration of reading normal barcode successful

RaCeZa

Short

RaCePa

Normal*

Frequency of Sound

LbDeUb

Low frequency 1.6KHZ

LbDeEc

Low-medium frequency 2.0KHZ*

LbDeAb

Medium frequency 2.7KHZ

LbDeKb

High frequency 4.2KHZ

Volume of Sound

BbDePb

Off

BbDeFb

Low

BbDeVa

Medium

BbDeLa

High*

1.4 Indicator Light

RaBeYa

On*

RaBeOa

Off

1.5 Illumination Light

GbWaHb

On*

GbWaNa

Off

1.6 Data Format

Data Output Format

The default is Codepage mode.

GbBbVa

Codepage Mode (Notepad，Excel)*

GbBbFb

Unicode Mode (WORD)

GbBbPb

UTF-8 Mode

OdPbYac

European signal byte character

Text Output in Different Countries

After setting the data output format, you need to determine the language system and barcode encoding format currently used by the user's PC, and then scan the following corresponding configuration codes according to the PC's language system and barcode encoding format. The default is the PC system language is CH, UTF8\GB2312 encoding.

PC system language is CH UTF-8/GB2312 encoding*	 0dPbLa
PC system language is CH BIG 5 encoding	 0dPbIbc
PC system language is BIG 5 BIG 5 encoding	 0dPbPb
PC system language is CH Shift-JIS encoding	 0dPbJbc
PC system language is JP Shift-JIS encoding	 0dPbVa
PC system language is Korean CP949 encoding	 0dPbFb
PC system language is Thai CP874 encoding	 0dPbGbc

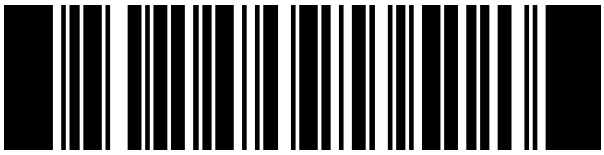
PC system language is Russia KOI8-R encoding	0dPbHbc
PC system language is Vietnamese Win1258 encoding	0dPbSbc

1.7 Image Recognition Settings

Inverse (reverse white) setting 1

Normal barcode: dark barcode with light background.

Inverted barcode: light barcode with dark background.



CbQdRa

Normal Only*

CbQdLb

Inverse Only

CbQdBb

Normal + Inverse

Note:

In order not to degrade scan performance, Inverse Only and Normal + Inverse will only apply to UPC-A/ UPC-E0/ UPC-E1/ EAN-8/ EAN-13. If you wish to read other inverse barcodes, refer to Inverse Barcode Setting 2.

Inverse Barcode Setting 2

PdZdQbc

All 1D Symbologies Inverse On

PdAeQbc

All 1D Symbologies Inverse Off*

PdBeQbc

All 2D Symbologies Inverse On

PdCeQbc

All 2D Symbologies Inverse Off*

1.8 QR URL Code

Scan the setup code below to turn on or off the QR code generated by the URL.

WaQbPa

On

WaQbZa

Off*

Chapter 2 Communication Settings

Introduction

When using this scanner to communicate with different hosts, you need to set the scanner to the corresponding communication interface mode. You can set the functions of scanner by scanning one or more setup barcodes. You can choose to use USB (USB-KBW, USB-COM), and TTL/ RS232 serial communication interface modes, etc.

2.1 USB Keyboard Interface

The default is USB-KBW communication.

VbZcWag

USB-KBW*

2.2 National Keyboard Layout

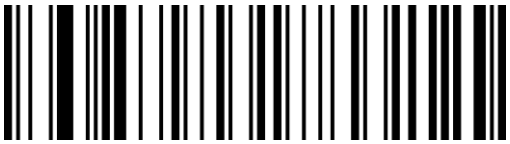
The keyboard layout setting is applicable to the USB-KBW interface mode and the default is "American English keyboard".

JdCcTc

American English*

JdCcLbc

Greece（Greek）



JdCcGbc

Netherlands（Dutch）

JdCcJc

Spain（Spanish Language）

JdCcCbc

Switzerland（German）

JdCcLa

Brazil（Portuguese）

JdCcEbc

Denmark

JdCcDbc

England（British English）

JdCcZb

Italy（Italian）

JdCcFb

France（French）

JdCcBbc

Germany（German）

JdCcNbc

Hungary

JdCcRbc

Sweden（Swedish）

JdCcQbc

Slovak

JdCcIbc

Portugal（Portuguese）

JdCcSbc

Romania

JdCcWqc

Belgium（French）

JdCcTbc

Turkish-F

JdCcXac

Turkish-Q

JdCcObc

Poland（Polish）

JdCcQdc

Russia（Russian MS）

JdCcVac

Japan（Japanese）

JdCcGdc

Ukraine

JdCcYdc

Vietnam

2.3 Output Mode of Control Character

Output mode selection of control character (0x00-0x1F) in ASCII code:

A. Output function key: control characters are used as custom function keys. See "Appendix-Control Character List" for specific functions.

B. Output Ctrl combination key (this function is used with prefixes and suffixes): Ctrl combination key outputs control characters. See "Appendix-Control Character List" for specific functions.

C. ALT mode output control characters: support full control character output in Chinese environment. See "Appendix-ASCII code table" for specific functions.

D. Output Enter & DownArrow: shield other control characters, only output: 0x07 output Enter, 0x0A output DownArrow, and 0x0D output Enter.

QbBbQa

Output function key*

QbBbAb

Output Ctrl combination key (Escape 1)

QbBbEc

Output Ctrl combination key (Escape 2)

QbBbKb

ALT mode output control characters

QbBbUb

Output Enter & DownArrow

2.4 Output Method of Virtual Keyboard

Output mode of control character (0x20-0xFF) in ASCII code:

When the virtual keyboard is turned on, all characters between 0x20 and 0xFF will be output with virtual keyboard.

WaBbPa

Turn off virtual keyboard*

WaBbZa

Turn on virtual keyboard

2.5 Case Conversion

BbLdOa

Conversion Off*

BbLdYa

All Upper

BbLdIb

All Lower

BbLdSb

Inverse

2.6 USB Transmission Speed

Normal* (10ms)

Fast (5ms)

Very Fast (1ms)

2.7 Caps Lock Detection

On*

Off

2.8 USB-COM Virtual Serial Port

When the scanner uses a USB connection, and at the same time you want the host to receive data through a serial port, you should use the USB virtual serial port. From the perspective of the host system interface, the scanner is connecting to the host through a serial port. This feature requires the corresponding driver to be installed on the host.

VbZcXag

USB-COM

2.9 TTL/RS232 Serial Port Interface

Serial communication interface is a common way to connect scanners and host devices. It can be used to connect host devices such as PC and POS machines. When the scanner uses the serial communication interface, the serial communication protocol parameter configuration must be completely matched between the scanner and the host device to ensure the accuracy of the transmitted data.

Default communication protocol of serial port interface: baud rate 9600, no check character.

VbZcNc

TTL/RS232

Parameter	Default
Serial Communication Type	Standard TTL/RS232
Baud Rate	9600
Parity Type	None
Data Bits	8
Stop Bits	1

Serial Port Transmission Speed (Delay between Characters)

This parameter is used to adjust the delay time between the barcode characters of the scanner. When the input host needs slower data transmission, scan the corresponding barcode below to increase the inter-character delay, which can adjust the transmission speed to improve the safety and integrity of the data output.

JdGeKbc

Low transmission speed: 25ms

JdGeVac

Medium transmission speed: 10ms

JdGeVa

High transmission speed: 1ms*

Baud Rate

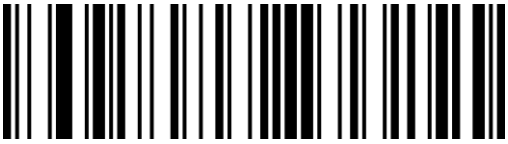
The baud rate is the number of bits transmitted per second in serial data communication. The baud rate used by the scanner and the data receiving host must be consistent to ensure the accuracy of data transmission. The scanner supports the baud rates listed below in bit/s.

VbCdRdc

4800bps

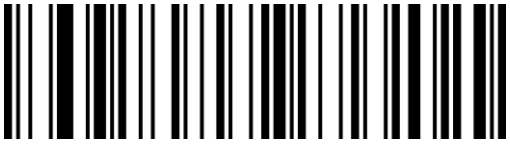
VbCdSdc

9600bps*



VbCdUdc

19200bps



VbCdVdc

38400bps

VbCdWdc

57600bps

VbCdVac

115200bps

Chapter 3 Reading Mode

3.1 Continuous reading mode

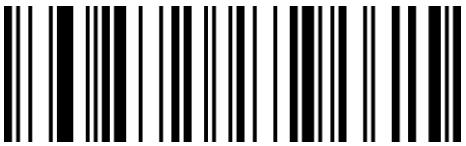
After setting, the scanner will be in continuous scanning state without triggering and the scanning engine starts to scan the code immediately. When the scanning is successful or the single scanning time is over, the scanning engine will wait for a period of time (settable) and it will start next scanning automatically.

VbBeZa

Continuous*

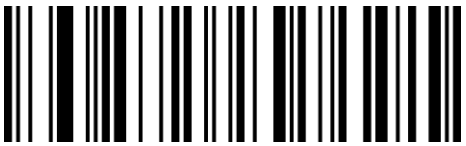
Continuous - Same Barcode Scanning Delay

Default: 400ms



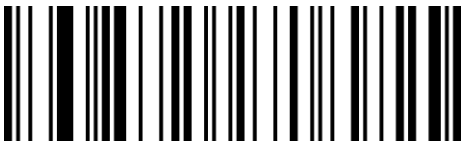
JdHeLa

No delay



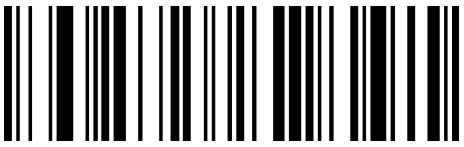
JdHeVa

Delay 100ms



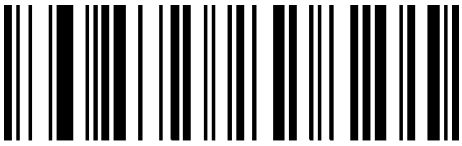
JdHeFb

Delay 200ms



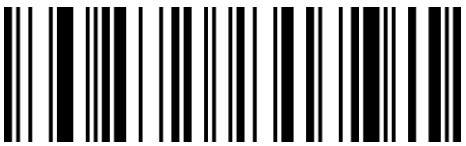
JdHePb

Delay 300ms



JdHeZb

Delay 400ms*



JdHeNd

Delay 800ms

JdHeXac

Delay 1200ms

JdHeFbc

Delay 2000ms

Continuous - Different Barcode Scanning Delay

Default: 300ms

No delay

Delay 100ms

300ms*

Delay 500ms

Delay 1000ms

Delay 2000ms

3.2 Inductive / auto-sensing reading mode

VbBePa

auto-sensing

Induction - Sensitivity

Sensitivity refers to the degree of change in the detection scene in the induction scanning mode. When the scanning module judges that the degree of scene change meets the requirements, it will switch from the monitoring state to the scanning state.

AcDbVa

High*

AcDbFb

Medium

AcDbPb

Low

Chapter 4 Data Editing

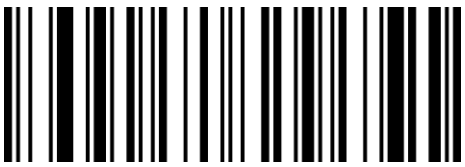
Introduction

Data editing format:

<Code ID><Custom prefix><Barcode data><Custom suffix><Terminator>

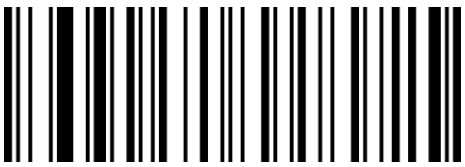
4.1 Code ID Prefix

The default is "Off"



WaFbRa

Off*



WaFbBb

On

4.2 AIM ID Prefix

AIM means Automatic Identification Manufacturers.

Please refer to "Appendix-Code ID & AIM ID" for the barcode type corresponding to AIMID

QaXdQa

Off*

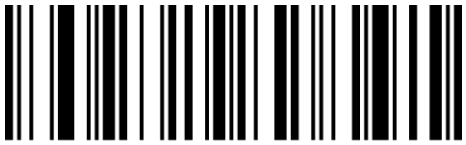
QaXdAb

On

4.3 GS Character Conversion

Output GS control characters as text characters.

Not translate*



Replaced by]

Replaced by |

Replaced by ^]

Replaced by [GS]

Replaced by <GS>

4.4 Custom Prefix

Setting for Custom Prefix

Add up to 10 characters for the custom prefix.

For setting steps, please refer to "Appendix-Customized Parameter Example"

BeReTd

Set custom prefix

Clear Custom Prefix

Scan the "Clear custom prefix" barcode to clear all custom prefix characters.

BeReSd

Clear custom prefix

4.5 Custom Suffix

Setting for Custom Suffix

Add up to 10 characters for the custom suffix.

For setting steps, please refer to "Appendix-Examples of custom parameters"

BeReWd

Set custom suffix

Clear Custom Suffix

Scan the "Clear custom suffix" barcode to clear all set custom suffix characters.

BeReRd

Clear custom suffix

4.6 Hide Characters

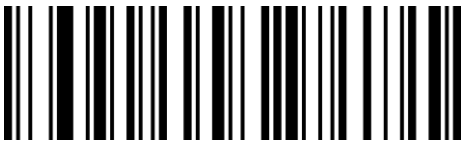
The function of hiding characters can realize the function of displaying only a certain segment of data by controlling different fields of the barcode content to achieve the function of hiding the data.

First, we divide a barcode data into three groups of head, middle, and tail data, and then set the length of the head, middle, and tail according to actual needs. Finally, set the fields that need to be displayed according to actual needs.

Hide Leading Characters

WaQbCb

Hide leading characters: On



WaQbSa

Hide leading characters: Off*

Hidden Numbers of Leading Character

The range is 1-255. For setting steps, please refer to "Appendix-Examples of custom parameters"

YdRbLa

Hidden Numbers of Leading Character

Hide Middle Characters

WaQbBb

Hide middle characters: On

WaQbRa

Hide middle characters: Off*

Initial Position of Hidden Middle Characters

If you want to hide the data after the third character (the position is 4th), the decimal value of the digital setup code is: "0", "0", "3".

For setting steps, please refer to "Appendix-Examples of custom parameters".

YdSbLa

Initial Position of Hidden Middle Characters

Hidden Numbers of Middle Character

The range is 1-255. If you need to hide 16 characters, the decimal value of the number setup code is: "0", "1", "6". For setting steps, please refer to "Appendix-Data Code".

YdTbLa

Hidden Numbers of Middle character

Hide Trailing Characters

WaQbAb

Hide trailing characters: On

WaQbQa

Hide trailing characters: Off*

Hidden Numbers of Trailing Character

The range is 1-255. For setting steps, please refer to "Appendix-Examples of custom parameters".

YdUbLa

Hidden Numbers of Trailing Character

4.7 Insert Custom Character

It supports inserting custom character at any position of the barcode, up to 10 bytes.

WaQbYb

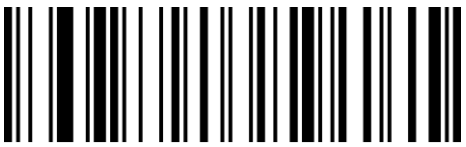
Display custom characters: On

WaQbOa

Display custom characters: Off*

Insertion Position of Custom Character

If the position where the characters need to be inserted is 16 characters, the decimal value of the number setup code is: 0, 1, 6. For the setting steps, please refer to "Appendix-Data Code".



YdFcLa

Insertion Position of Custom Character

Custom Character to Insert

Set and insert custom characters, scan the custom characters to be set, the setting steps are similar to the custom prefixes and suffixes, please refer to "Appendix-Examples of custom parameters"

BeReYc

Custom Character to Insert

Clear Custom Insert

BeReOd

Clear custom insert

4.8 Character Replacement

The character replacement function supports replacing any character (character being replaced) appearing in the barcode with another character that needs to be displayed.

For setting steps, please refer to "Appendix-Examples of custom parameters".

VdEeLa

Character to be replaced

VdFeLa

Replacement character

Note: If you need to clear the replacement character, set the "character to be replaced" to NULL, that is, the decimal is "000".

4.9 Terminator

The terminator is used to mark the end of a complete data message. The terminator must be the last content when a piece of data is sent, and there will be no additional data after that.

LbKdGb

<CR>(0x0D)*

LbKdUc

<LF>(0x0A)

LbKdWa

<CR><LF>(0x0D,0x0A)

LbKdQb

<HT>(0x09)

LbKdAc

<CR><CR>(0x0D,0x0D)

LbKdKc

<CR><LF><CR><LF>(0x0D ,0x0A, 0x0D ,0x0A)

LbKdMa

NONE

Chapter 5 Barcode Parameter Setting

5.1 Global Setting

GbYaXa

All barcode types: On

GbYaHb

All barcod types: Off

GbYaZa

1D barcode: On

GbYaJb

1D barcode: Off

GbYaBb

2D barcode: On

GbYaLb

2D barcode: Off

Note: The setup code will not be closed when closing all barcodes.

5.2 UPC-A

QaYaBb

On**

QaYaRa

Off

Transmit Check Character

The UPC-A barcode data is fixed to 12 characters, and the 12th digit is the check character, which is used to verify the correctness of all 12 characters. The default is transmitting check character.

QaTdCb

On**

QaTdSa

Off

2/5 Additional Digits

Additional digits refer to the 2 or 5 digital barcodes appended to the normal barcode, as shown in the figure below. The blue wire frame on the left is the normal barcode, and the red wire frame on the right is the additional digit. The default is closing the additional digits.

QaIbCb

2 additional digits: On

QaIbSa

2 additional digits: Off**

QaIbBb

5 additional digits: On

QaIbRa

5 additional digits: Off**

Mandatory Additional Digits

When scanning "mandatory additional digits", the scanner can only read barcodes with additional digits.

QaIbYa
On

QaIbOa
Off**

Additional Digit Separator

When this feature is enabled, there is a space between the barcode data and the additional data. When this feature is disabled, there are no spaces. Default is On.

QaIbXa
On**

QaIbNa
Off

Transmit System Character

QaTdWa

On**

QaTdMa

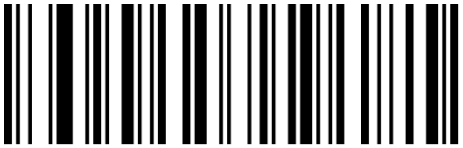
Off

Convert to EAN-13

The default is no conversion.

QaTdVa

On



QaTdLa

Off**

5.3 UPC-E

QaYaVa

UPC-E0: On**

QaYaLa

UPC-E0: Off

WaYaVa

UPC-E1: On

WaYaLa

UPC-E1: Off**

Transmit Check Character

The UPC-E barcode data is fixed to 8 characters, and the 8th digit is the check character, which is used to verify the correctness of all 8 characters. The default is to transmit the check character.

QaTdBb

On**

QaTdRa

Off

2/5 Additional Digits

Additional digits refer to the 2 or 5 digital barcodes appended to the normal barcode, as shown in the figure below. The blue wire frame on the left is the normal barcode, and the red wire frame on the right is the additional digit. The default is closing the additional digits.

QaIbCb

2 additional digits: On

QaIbBb

5 additional digits: On

QaIbSa

2 additional digits: Off**

QaIbRa

5 additional digits: Off**

Mandatory Additional Digits

When scanning "mandatory additional digits", the scanner can only read barcodes with additional digits.

QaIbYa

On

QaIbOa

Off**

Additional Digit Separator

When this feature is enabled, there is a space between the barcode data and the additional data. When this feature is disabled, there are no spaces. Default is On.

QaIbXa

On**

QaIbNa

Off

Transmit System Character

QaTdYa

On**

QaTdOa

Off

Convert to UPC-A

The default is not to convert.

QaTdAb

On

QaTdQa

Off**

5.4 EAN/JAN 8

QaYaZa

On**

QaYaPa

Off

Transmit Check Character

EAN/JAN 8 barcode data is fixed to 8 characters, the 8th digit is the check character, used to verify the correctness of all 8 characters, the default is transmit the check character.

QaXdVa

On**

QaXdLa

Off

2/5 Additional Digits

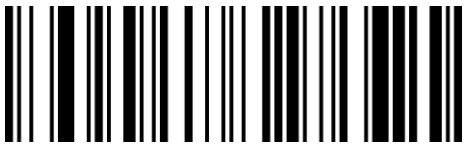
Additional digits refer to the 2 or 5 digital barcodes appended to the normal barcode, as shown in the figure below. The blue wire frame on the left is the normal barcode, and the red wire frame on the right is the additional digit. The default is closing the additional digits.

QaIbCb

2 additional digits: On

QaIbBb

5 additional digits: On



QaIbSa

2 additional digits: Off**

QaIbRa

5 additional digits: Off**

Mandatory Additional Digits

When scanning "mandatory additional digits", the scanner can only read barcodes with additional digits.

QaIbYa

On

QaIbOa

Off**

Additional Digit Separator

When this feature is enabled, there is a space between the barcode data and the additional data. When this feature is disabled, there are no spaces. Default is On.

QaIbXa

On**

QaIbNa

Off

Convert to EAN13

The EAN 8 barcode type supports conversion settings. After the extension is turned on, the barcode information is converted to 13 digits, and the type is converted to EAN13. The default is not to convert.

QaTdXa

On

QaTdNa

Off**

5.5 EAN/JAN 13

QaYaWa

On**

QaYaMa

Off

Transmit Check Character

EAN/JAN 13 barcode data is fixed to 13 characters, the 13th digit is the check character, used to verify the correctness of all 12 characters, the default is transmit check character.

QaXdXa

On**

QaXdNa

Off

2/5 Additional Digits

Additional digits refer to the 2 or 5 digital barcodes appended to the normal barcode, as shown in the figure below. The blue wire frame on the left is the normal barcode, and the red wire frame on the right is the additional digit. The default is closing the additional digits.

QaIbCb

2 additional digits: On

QaIbBb

5 additional digits: On

QaIbSa

2 additional digits: Off**

QaIbRa

5 additional digits: Off**

Mandatory Additional Digits

When scanning "mandatory additional digits", the scanner can only read barcodes with additional digits.

QaIbYa

On

QaIbOa

Off**

Additional Digit Separator

When this feature is enabled, there is a space between the barcode data and the additional data. When this feature is disabled, there are no spaces. Default is On.

QaIbXa

On**

QaIbNa

Off

Convert to ISBN

QaJbCb

On

QaJbSa

Off**

Transmit ISBN Check Character

QaJbAb

On

QaJbQa

Off**

Convert to ISSN

RaVcCb

On

RaVcSa

Off**

5.6 ISSN

QaTdXa

On

QaTdNa

Off**

Transmit ISSN Check Character

RaVcAb

On

RaVcQa

Off**

5.7 Code 128

QaXaYa

On**

QaXaOa

Off

Number of Recognized Characters

The default number of Code128 is 0-80, and the scanner can be configured to only scan Code 128 barcodes whose number is between (including) the minimum number (0-80) and the maximum number (0-80).

XdIbLa

Minimum

XdJbLa

Maximum

5.8 GS1-128 (UCC/EAN 128)

RaYcVa

On**

RaYcLa

Off

Number of Recognized Characters

The default number is 0-80, and the scanner can be configured to only scan GS1-128 barcodes whose number is between (including) the minimum number (0-80) and the maximum number (0-80).

XdKbLa

Minimum

XdLbLa

Maximum

5.9 ISBT 128

ISBT 128 Connect Function

TaCeCb

On

TaCeSa

Off**

Note: ISBT 128 is a subcategory of Code128, which can be turned on or off through the Code128 setting. The ISBT128 connection function is used to set whether to scan ISBT barcodes with additional digits. When the setting is enabled, ISBT 128 with or without additional digits can be scanned.

5.10 Code 39

QaXaWa

On**

QaXaMa

Off

Check Character

Code 39 barcode data is not mandatory to include a check character. If there is a check character, it is the last character of the data. The check character is a value calculated based on all data to check whether the data is correct.

The default is "No Check".

IbNePa

No Check**

IbNeZa

Check and Transmit

IbNeJb

Check but Not Transmit

Start and End Characters

Code 39 barcode data has a character "*" before and after it is used as the start character and end character. You can set whether to transmit the start character and end character together with the barcode data after the barcode is successfully read.

QaVdVa

On

QaVdLa

Off**

Full ASCII Characters

QaYaCb

On

QaYaSa

Off**

Number of Recognized Characters

The default number is 0-48, and the scanner can be configured to only scan Code 39 barcodes whose number is between (including) the minimum number (0-48) and the maximum number (0-48).

XdMbLa

Minimum

XdNbLa

Maximum

5.11 Code 32Pharmaceutical (PARAF)

Code 32 is also named Code 32 Pharmaceutical, is a form of Code 39 barcode used by Italian pharmacies. This barcode is also called PARAF.

The output format of Code 32 is: * + A + 8 digits + 1 check digit + *.

QaYaAb

On

QaYaQa

Off**

Transmit Check Character

WaYaWa

On**

WaYaMa

Off

Code 32 Add Prefix "A"

QaVdXa

On

QaVdNa

Off**

5.12 Code 93

QaXaXa

On**

QaXaNa

Off

Number of Recognized Characters

The default number is 0-80, and the scanner can be configured to only scan Code 93 barcodes whose number is between (including) the minimum number (0-80) and the maximum number (0-80).

XdEcLa

Minimum

XdFcLa

Maximum

5.13 Code 11

QaWaYa

On

QaWaOa

Off**

Check Character

Code 11 barcode data has check characters, which can be the last 1 or 2 characters of the data. The check character is a value calculated based on all data to check whether the data is correct.

SbOeXa

1 check character, On

SbOeNa

2 check characters, On**

SbOeRb

1 check character, Off

SbOeHb

2 check characters, Off

Off

Number of Recognized Characters

The default number is 2-80, and the scanner can be configured to only scan Code 11 barcodes whose number is between (including) the minimum number (2-80) and the maximum number (2-80).

XdObLa

Minimum

XdPbLa

Maximum

5.14 Codabar (NW-7)

QaXaZa

On**

QaXaPa

Off

Check Character

IbNeRa

No Check**

IbNeBb

Check and Transmit

IbNeLb

Check but Not Transmit

Start and End Characters

QaVdCb

On

QaVdSa

Off**

Start and End Characters Format

Start and end characters of Codabar are allowed to be one of the four characters "A", "B", "C", and "D"; the terminator is also allowed to be one of "T", "N", "*", " E".

WaMbSa

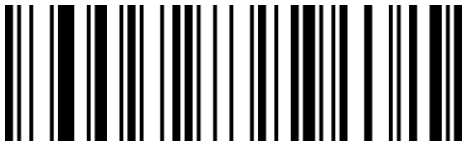
ABCD/ABCD**

WaMbCb

ABCD/TN*E

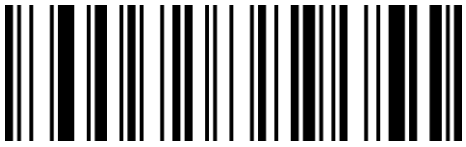
Number of Recognized Characters

The default number is 2-60, and the scanner can be configured to only scan Codabar barcodes whose number is between (including) the minimum number (2-60) and the maximum number (2-60).



XdGcLa

Minimum



XdHcLa

Maximum

5.15 Interleaved 2 of 5

QaXaAb

On**

QaXaQa

Off

Check Character

Interleaved 2 of 5 barcode data is not mandatory to include a check character. If there is a check character, it will be the last character of the data. The check character is a value calculated based on all data to check whether the data is correct. You can turn on or off the check according to your needs, and set whether to send check characters.

The code number of Interleaved 2 of 5 barcode must be an even number. The check character is included in the code. If it is an odd number, the first digit should be filled with 0.

The default is “No Check”

IbNeNa

No Check**

IbNeXa

Check and Transmit

IbNeHb

Check but Not Transmit

Number of Recognized Characters

The default number is 1-80, and the scanner can be configured to only scan Interleaved 2 of 5 barcodes whose number is between (including) the minimum number (1-80) and the maximum number (1-80).

XdSbLa

Minimum

XdTbLa

Maximum

5.16 Matrix 2 of 5

QaWaAb

On**

QaWaQa

Off

Check Character

Matrix 2 of 5 barcode data is not mandatory to include a check character. If there is a check character, it will be the last byte of the data. The check character is a value calculated from all data except the check character to check whether the data is correct.

The default is "No Check".

AbBbRa

No Check**

AbBbBb

Check and Transmit

AbBbLb

Check but Not Transmit

Number of Recognized Characters

The default number is 1-80, and the scanner can be configured to only scan Matrix 2 of 5 barcodes whose number is between (including) the minimum number (1-80) and the maximum number (1-80).

XdYbLa

Minimum

XdZbLa

Maximum

5.17 Industrial 2 of 5

QaXaVa

On**

QaXaLa

Off

Number of Recognized Characters

The default number is 1-45, and the scanner can be configured to only scan Industrial 2 of 5 barcodes whose number is between (including) the minimum number (1-45) and the maximum number (1-45).

XdUbLa

Minimum

XdVbLa

Maximum

5.18 Standard 2 of 5 (IATA 2 of 5)

QaWaZa

On

QaWaPa

Off**

Number of Recognized Characters

The default number is 1-45, and the scanner can be configured to only scan Standard 2 of 5 barcodes whose number is between (including) the minimum number (1-45) and the maximum number (1-45).

XdWbLa

Minimum

XdXbLa

Maximum

5.19 NEC 2 of 5

SaYdWa

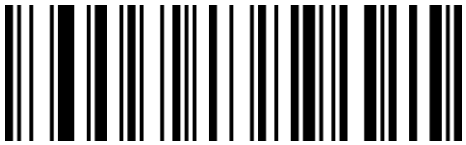
On

SaYdMa

Off**

Number of Recognized Characters

The default number is 4-80, and the scanner can be configured to only scan NEC 2 of 5 barcodes whose number is between (including) the minimum number (4-80) and the maximum number (4-80).



XdAcLa

Minimum

XdBcLa

Maximum

5.20 MSI Plessey

QaYaXa

On

QaYaNa

Off**

Check Character

MSI Plessey barcode data is not mandatory to include check characters. If there is a check character, it will be the last 1 or 2 characters of the data. The check character is a value calculated from all data except the check character to check whether the data is correct.

SbOeQa

No Check**

SbOeOc

Mode10 Check but Not Transmit

SbOeId

Two Mode10 Check but Not Transmit

SbOeYc

Mode10&Mode11 Check but Not Transmit

SbOeAb

Mode10 Check and Transmit

SbOeKb

Mode10&Mode11 Check and Transmit

SbOeUb

Two Mode10 Check and Transmit

Number of Recognized Characters

The default number is 1-255, and the scanner can be configured to only scan MSI Plessey barcodes whose number is between (including) the minimum number (1-255) and the maximum number (1-255).

XdCcLa

Minimum

XdDcLa

Maximum

5.21 Telepen

QaWaCb

On

QaWaSa

Off**

Telepen Character Format

QaWaBb

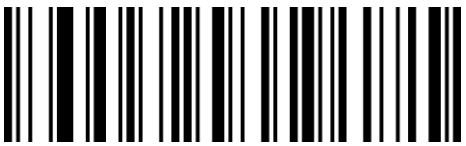
Number Format

QaWaRa

Number + Letter Format**

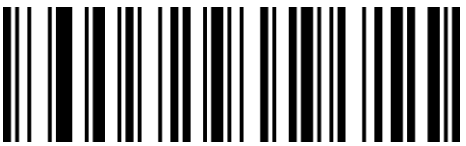
Number of Recognized Characters

The default number is 1-60, and the scanner can be configured to only scan Telepen barcodes whose number is between (including) the minimum number (1-60) and the maximum number (1-60).



XdQbLa

Minimum



XdRbLa

Maximum

5.22 Febraban

ITF 25 Type

WaNbVa

On

WaNbLa

Off**

Code 128 Type

WaNbWa

On

WaNbMa

Off**

Check Character

WaNbXa

check

WaNbNa

No check**

5.23 GS1 DataBar 14 (RSS-14)

QaAbYa

On**

QaAbOa

Off

Note: GS1 DataBar 14 si also known as GS1 Databar Omnidirectional、RSS-14

5.24 GS1 DataBar Limited (RSS-Limited)

QaAbZa

On**

QaAbPa

Off

Note: GS1 DataBar Limited is also known as RSS-Limited

5.25 GS1 DataBar Expanded (RSS-Expanded)

QaAbAb

On**

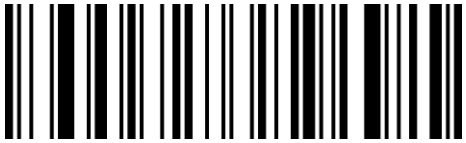
QaAbQa

Off

Note: GS1 DataBar Expanded is also known as RSS-Expanded

Number of Recognized Characters

The default number is 4-74, and the scanner can be configured to only scan GS1 Databar Expanded barcodes whose number is between (including) the minimum number (4-74) and the maximum number (4-74).



XdIcLa

Minimum

XdJcLa

Maximum

5.26 QR Code

QaCbXa

On**

QaCbNa

Off

QR Code Normal/Reverse

QaCbOa

Normal only**

QaCbYa

Normal + Reverse

QR Code Append

SaOcBb

QR Code Append ON

SaOcRa

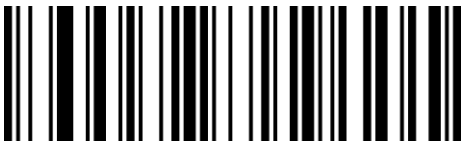
QR Code Append Off**

Number of Recognized Characters

The default number is 1-7089, and the scanner can be configured to only scan QR Code whose number is between (including) the minimum number (1-7089) and the maximum number (1-7089).

Minimum Number = Minimum Number high byte * 256 + Minimum Number low byte

Maximum Number = Maximum Number high byte * 256 + Maximum Number low byte

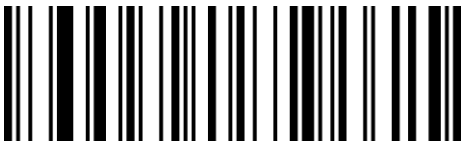


XdYdLa

Minimum Number (Low Byte)

XdZdLa

Minimum Number (High Byte)



XdAeLa

Maximum Number (Low Byte)

XdBeLa

Maximum Number (High Byte)

5.27 Micro QR Code

QaCbAb

On**

QaCbQa

Off

Micro QR Code Normal/Reverse

QaCbRa

Normal Only**

QaCbBb

Normal + Reverse

5.28 Data Matrix

QaBbYa

On**

QaBbOa

Off

Data Matrix Rectangular Code

QaBbWa

On

QaBbMa

Off**

Data Matrix Normal/Reverse

QaBbNa

Normal only**

QaBbXa

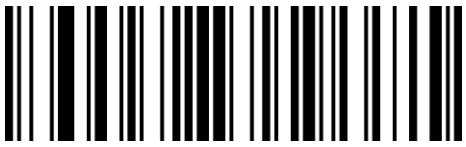
Normal + Reverse

Number of Recognized Characters

The default number is 1-3116, and the scanner can be configured to only scan DataMatrix whose number is between (including) the minimum number (1-3116) and the maximum number (1-3116).

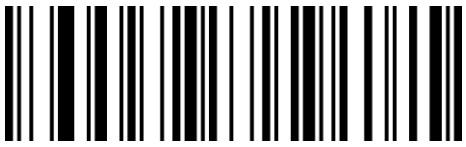
Minimum Number = Minimum Number high byte * 256 + Minimum Number low byte

Maximum Number = Maximum Number high byte * 256 + Maximum Number low byte



XdUdLa

Minimum Number (Low Byte)

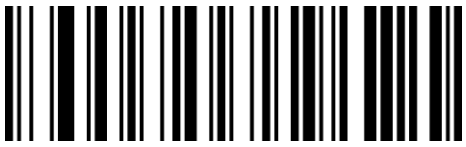


XdVdLa

Minimum Number (High Byte)

XdWdLa

Maximum Number (Low Byte)



XdXdLa

Maximum Number (High Byte)

5.29 PDF 417

QaWaVa
On**

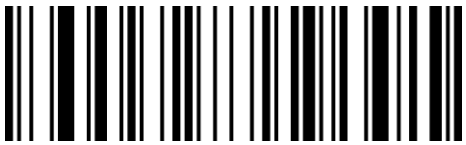
QaWaLa
Off

Number of Recognized Characters

The default number is 1-2750, and the scanner can be configured to only scan PDF 417 whose number is between (including) the minimum number (1-2750) and the maximum number (1-2750).

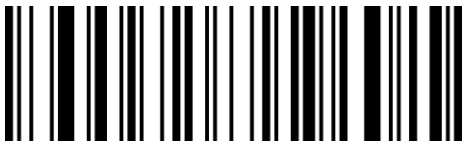
Minimum Number = Minimum Number high byte * 256 + Minimum Number low byte

Maximum Number = Maximum Number high byte * 256 + Maximum Number low byte



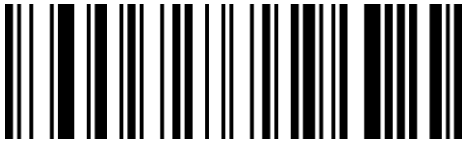
XdGdLa

Minimum Number (Low Byte)



XdHdLa

Minimum Number (High Byte)



XdIdLa

Maximum Number (Low Byte)

XdJdLa

Maximum Number (High Byte)

5.30 Micro PDF 417

QaAbCb

On

QaAbSa

Off**

Number of Recognized Characters

The default number is 1-366, and the scanner can be configured to only scan Micro PDF 417 whose number is between (including) the minimum number (1-366) and the maximum number (1-366).

Minimum Number = Minimum Number high byte * 256 + Minimum Number low byte

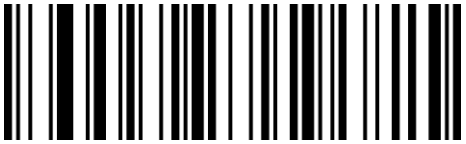
Maximum Number = Maximum Number high byte * 256 + Maximum Number low byte

XdKdLa

Minimum Number (Low Byte)

XdLdLa

Minimum Number (High Byte)



XdMdLa

Maximum Number (Low Byte)

XdNdLa

Maximum Number (High Byte)

5.31 MaxiCode

QaCbZa

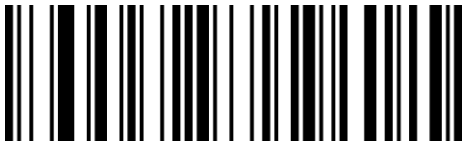
On

QaCbPa

Off**

Number of Recognized Characters

The default number is 1-150, and the scanner can be configured to only scan MaxiCode whose number is between (including) the minimum number (1-150) and the maximum number (1-150).



XdSdLa

Minimum

XdTdLa

Maximum

5.32 Aztec Code

QaCbVa

On

QaCbLa

Off**

AztecCode Normal/Reverse

QaCbMa

Normal Only**

QaCbWa

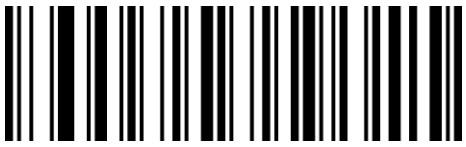
Normal + Reverse

Number of Recognized Characters

The default number is 1-3832, and the scanner can be configured to only scan Aztec Code whose number is between (including) the minimum number (1-3832) and the maximum number (1-3832).

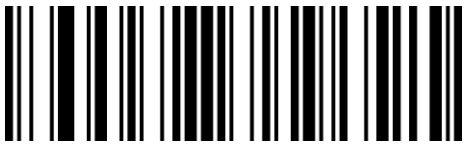
Minimum Number = Minimum Number high byte * 256 + Minimum Number low byte

Maximum Number = Maximum Number high byte * 256 + Maximum Number low byte



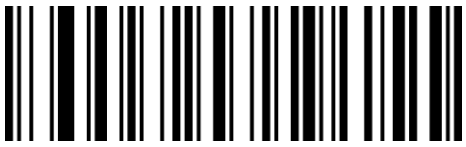
XdOdLa

Minimum Number (Low Byte)



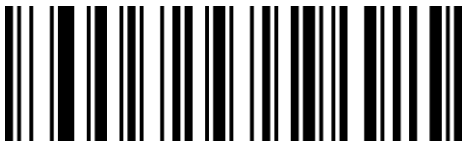
XdPdLa

Minimum Number (High Byte)



XdQdLa

Maximum Number (Low Byte)



XdRdLa

Maximum Number (High Byte)

5.33 HanXin Code

SaRdWa
On

SaRdMa
Off**

Number of Recognized Characters

The default number is 1-7883, and the scanner can be configured to only scan HanXin Code whose number is between (including) the minimum number (1-7883) and the maximum number (1-7883).

Minimum Number = Minimum Number high byte * 256 + Minimum Number low byte

Maximum Number = Maximum Number high byte * 256 + Maximum Number low byte

XdCeLa

Minimum Number (Low Byte)

XdDeLa

Minimum Number (High Byte)

XdEeLa

Maximum Number (Low Byte)

XdFeLa

Maximum Number (High Byte)

5.34 China Post Code

QaZaBb

On

QaZaRa

Off**

Note: China Post Code is also known as Hong Kong2 of 5.

Number of Recognized Characters

The default number is 2-80, and the scanner can be configured to only scan China Post Code whose number is between (including) the minimum number (2-80) and the maximum number (2-80).

XdOcLa

Minimum Number

XdPcLa

Maximum Number

5.35 GS1 Composite Code

RaUcBb

On

RaUcRa

Off**

GS1-128 Composite

RaUcAb

On

RaUcQa

Off**

UPC Composite

YaNbZa

ON

YaNbPa

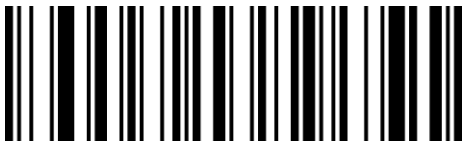
Off**

Number of Recognized Characters

The default number is 1-2435, and the scanner can be configured to only scan GS1 Composite Code whose number is between (including) the minimum number (1-2435) and the maximum number (1-2435).

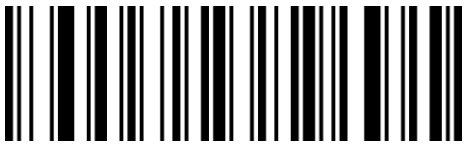
Minimum Number = Minimum Number high byte * 256 + Minimum Number low byte

Maximum Number = Maximum Number high byte * 256 + Maximum Number low byte



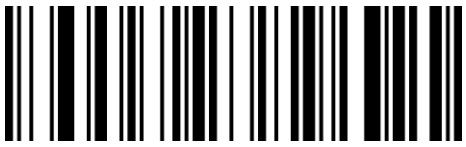
XdKcLa

Minimum (Low Byte)



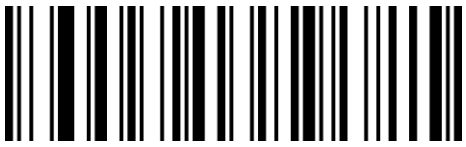
XdLcLa

Minimum (High Byte)



XdMcLa

Maximum (Low Byte)



XdNcLa

Maximum (High Byte)

Chapter 6 Appendix

6.1 Appendix-Data Code

The data code is used to configure the prefix and suffix. When using the data code, it needs to be used in conjunction with "Appendix-Enter/Exit Data Code Setting Mode".


0


1


2


3


4


5


6


7


8


9

6.2 Appendix-Enter/Exit Data Code Setting Mode

When the user configures the prefix and suffix, you need to scan the "enter/exit data code setting mode" setup code first to enter the setting data code mode. After entering the data code configuration mode, only scanning the variable-number configuration code is valid. To set other configuration codes, you need to exit the data code setting mode first.

BeReGe

Enter/Exit data code setting mode

6.3 Appendix-Examples of Custom Parameters

Example-add prefix and suffix settings

For example: add a custom prefix of XY to all barcode types

First, check the "Appendix-ASCII Code Table" to check that the three-digit decimal value corresponding to the character XY that needs to be prefixed is 088,089.

Step 1: Scan the "Enter/Exit Data Code Setting Mode" setup code in the appendix (the buzzer will sound 3 times);

BeReGe

Enter/Exit data code setting mode

Step 2: Scan the "Set custom prefix" setup code；

BeReTd

Set custom prefix

Step 3: Scan "0", "8" and "8" of "Appendix-Data Code" in turn to set the code. (Every three is a group, the buzzer sounds 1, 2 and 3 respectively)。


0


8


8

Step 4: Scan the "Set custom prefix" setup code ;

BeReTd

Set custom prefix

Step 5: Scan "0", "8" and "9" of "Appendix-Data Code" in turn to set the code. (Every three is a group, the buzzer sounds 1, 2 and 3 respectively).


0


8


9

Step 5: Scan the setup code of "Enter/Exit Data Code Setting Mode" in the appendix to complete the setting, (the buzzer sounds 3 times).

BeReGe

Enter/Exit data code setting mode

Note: You can set up to 10 custom prefixes. Repeat the second and third steps to set multiple prefixes. After each prefix is set, it will automatically switch to the next prefix setting (1-10 from left to right). After setting the 10th, it will automatically jump to the first prefix setting.

Example-Set the length of 1D code

Note:

1. Minimum length> maximum length, any length of the code system can be decoded.

2. Minimum length = maximum length, the decodable length of the code system is fixed to the set value.

3. Some QR codes have no high and low byte settings, you can also refer to this step。

For example: set the reading length of Code 128 to 6-15 digits.

First confirm that the three-digit decimal values corresponding to 6 and 15 are 006 and 015.

Step 1: Scan the setup code of "Enter/Exit Data Code Setting Mode" in the appendix (the buzzer will sound 3 times);

BeReGe

Enter/Exit data code setting mode

Step 2: Scan the "Minimum" setup code of Code 128;

XdIbLa

Minimum

Step 3: Scan "0", "0" and "6" of "Appendix-Data Code" in turn to set the code. (Every three is a group, the buzzer sounds 1, 2 and 3 respectively).


0


0


6

Step 4: Scan the "Maximum" setup code of Code 128;

XdJbLa

Maximum

Step 5: Scan "0", "1" and "5" of "Appendix-Data Code" in turn to set the code. (Every three is a group, the buzzer sounds 1, 2 and 3 respectively).


0


1


5

Step 6: Scan the setup code of "Enter/Exit Data Code Setting Mode" in the appendix to complete the setting (the buzzer sounds 3 times).

BeReGe

Enter/Exit data code setting mode

Example-Set the length of the QR code

Note:

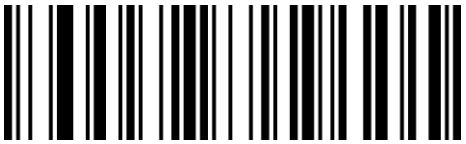
1. Minimum length> maximum length, any length of the code system can be decoded.

2. Minimum length = maximum length, the decodable length of the code system is fixed to the set value.

For example: set the QR Code reading length to 20-300 digits.

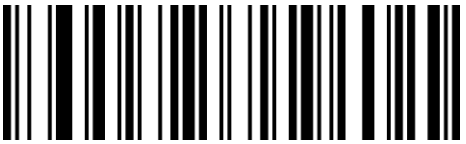
The 2D code length setting is essentially the same as the 1D code length setting, but the minimum/maximum length setting of the 2D code may be greater than 255, so the length needs to be divided into two settings.

For example, when the maximum length of QR is 300, you need to simply decompose the maximum length value before setting, and divide 300 into high and low bytes, then the high byte is 300/256 = 1 (divided up), and the low byte is 300% 256=44 (take the remainder). If the maximum length <256, the high byte is 0.



XdYdLa

Minimum Number (Low Byte)



XdZdLa

Minimum Number (High Byte)

XdAeLa

Maximum Number (Low Byte)

XdBeLa

Maximum Number (High Byte)

Step 1: Scan the "Enter/Exit Data Code Setting Mode" setup code in the appendix (the buzzer will sound 3 times);

BeReGe

Enter/Exit data code setting mode

Step 2: Scan the QR Code "Minimum Number (High Byte)" setup code；

XdZdLa

Minimum Number (High Byte)

Step 3: Scan "0", "0" and "0" of "Appendix-Data Code" in turn to set the code. (Every three is a group, the buzzer sounds 1, 2 and 3 respectively)。


0


0


0

Step 4: Scan the QR Code "Minimum Number (low byte)" setup code；

XdYdLa

Minimum Number (Low Byte)

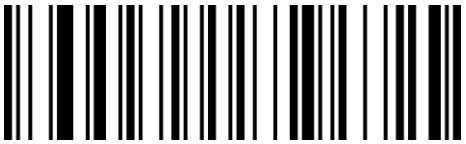
Step 5: Scan "0", "2" and "0" of "Appendix-Data Code" in turn to set the code. (Every three is a group, the buzzer sounds 1, 2 and 3 respectively)。


0


2


0

Step 4: Scan the QR Code "Maximum Number (High Byte)" setup code；

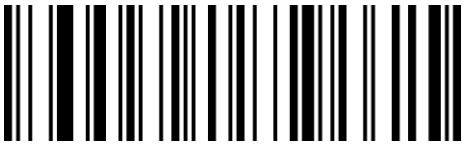


XdBeLa

Maximum Number (High Byte)

Step 5: Scan "0", "0" and "1" of "Appendix-Data Code" in turn to set the code. (Every three is a group, the buzzer sounds 1, 2 and 3 respectively).

Step 4: Scan the "Maximum Number (low byte)" setup code of Code 128；



XdAeLa

Maximum Number (Low Byte)

Step 5: Scan "0", "4" and "4" of "Appendix-Data Code" in turn to set the code. (Every three is a group, the buzzer sounds 1, 2 and 3 respectively).

Step 6: Scan the setup code of "Enter/Exit Data Code Setting Mode" in the appendix to complete the setting (the buzzer sounds 3 times).

BeReGe

Enter/Exit data code setting mode

Example-Hidden character settings

For example: set to hide the first 3 characters of the barcode.

Example：1616abcd

The original content of the barcode is: 1616abcd, output 6abcd after setting the hidden 3 characters in the head.

Step 1: Scan the "Enter/Exit Data Code Setting Mode" setup code in the appendix (the buzzer will sound 3 times);

BeReGe

Enter/Exit data code setting mode

Step 2: Scan the setup code of " Hidden Numbers of Leading Character ";

Hidden Numbers of Leading Character

Step 3: Scan "0", "0" and "3" of "Appendix-Data Code" in turn to set the code. (Every three is a group, the buzzer sounds 1, 2 and 3 respectively).


0


0


3

Step 4: Scan the "Enter/Exit Data Code Setting Mode" setup code in the appendix to complete the setting, (the buzzer sounds 3 times).

BeReGe

Enter/Exit data code setting mode

Step 5: Scan the " Hide leading characters: On" setup code;

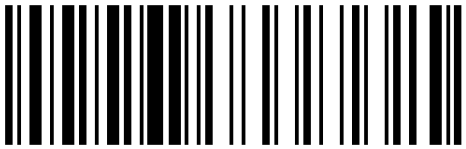
WaQbCb

Hide leading characters: On

Example-Insert Custom Character

Example: insert X after 4 characters.

From “Appendix-ASCII Code Table”, “4” means “004”, “X” means “088”.



1616abcd

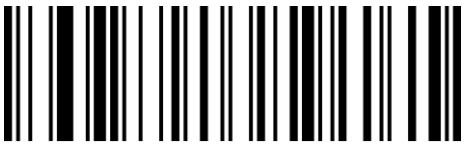
Original content is: 1616abcd，output is: 1616Xabcd.

Step 1: Scan the "Enter/Exit Data Code Setting Mode" setup code in the appendix (the buzzer will sound 3 times);

BeReGe

Enter/Exit Data Code Setting Mode

Step 2: scan “Insertion Position of Custom Character” setup code.



YdFcLa

Insertion Position of Custom Character

Step 3: Scan "0", "0" and "4" of "Appendix-Data Code" in turn to set the code. (Every three is a group, the buzzer sounds 1, 2 and 3 respectively).

0 0 4

Step 4: scan “Custom Character to Insert” setup code.

BeReYc

Custom Character to Insert

Step 5: Scan "0", "8" and "8" of "Appendix-Data Code" in turn to set the code. (Every three is a group, the buzzer sounds 1, 2 and 3 respectively).

0 8 8

Step 4: Scan the "Enter/Exit Data Code Setting Mode" setup code in the appendix to complete the setting, (the buzzer sounds 3 times).

BeReGe

Enter/Exit Data Code Setting Mode

Step 6: scan “Display custom characters: On” setup code.

WaQbYb

Display custom characters: On

Example-Character Replacement

For example: replace the 6 appearing in the sample barcode with the letter X.

Appendix-ASCII code table: 6 = 054; X = 088.

1616abcd

The original content of the barcode is: 1616abcd, output 1X1Xabcd after setting.

Step 1: Scan the "Enter/Exit Data Code Setting Mode" setup code in the appendix (the buzzer will sound 3 times);

BeReGe

Enter/Exit data code setting mode

Step 2: Scan the "Character to be replaced" setup code;

VdEeLa

Character to be replaced

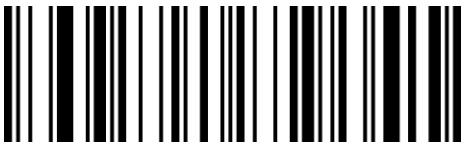
Step 3: Scan "0", "5" and "4" of "Appendix-Data Code" in turn to set the code. (Every three is a group, the buzzer sounds 1, 2 and 3 respectively).


0


5


4

Step 4: Scan the "Replacement character" setup code;



VdFeLa

Replacement character

Step 5: Scan "0", "8" and "8" of "Appendix-Data Code" in turn to set the code. (Every three is a group, the buzzer sounds 1, 2 and 3 respectively).


0


8


8

Step 5: Scan the setup code of "Enter/Exit Data Code Setting Mode" in the appendix to complete the setting, (the buzzer sounds 3 times).

BeReGe

Enter/Exit data code setting mode

6.4 Appendix-Default Setting Table

Parameter Name	Default Setting	Description
Comprehensive Settings		
Turn on all sound	ON	
Turn on boot sound	ON	
Duration of successful decoding tone	Normal	
Decoding successful prompt audio rate	2.0KHZ	
Decoding successful prompt tone volume	High	
Turn on the indicator light for successful barcode reading	ON	
Turn on the fill light	ON	
Data output format	Codepage	
Text output in different countrues	UTF-8/GB2312 coding	
Image inversion	Normal	
All 1D barcodes are inverted	OFF	
All 2D barcodes are inverted	OFF	
Communication Setting		
Interface Mode	USB-KBW	
Keyboard Mode	American English	
Control character output mode	Output function keys	

Open virtual keyboard	OFF	
Case Conversion	OFF	Normal
USB transfr speed	Normal	
Caps Lock Detection	ON	
Serial port transmission speed	fast	
Baut rate	9600	
Serial verification	No verification	
Data bit	8 bits	
Stop bit	1 bit	
Reading Mode		
Reading mode	**Continuous**	
Continuous reading-the same barcode reading delay	ON	400ms
Induction Reading Mode-Induction Sensitivity	High	
Data Editing		
Send Code ID	OFF	
Send AIM ID	OFF	
Custom Predix	OFF	
Custom suffix	OFF	
Hide head characters	OFF	
Hide middle characters	OFF	

Hide trailing characters	OFF
Display insert custom characters	OFF
Terminator	CR
Barcode Parameter Setting	
Open all barcodes	OFF
UPC-A	
Allow reading	ON
Send check character	ON
2 additional digits	OFF
5 additional digits	OFF
Mandatory additional digits, 2 additional digits	OFF
Mandatory additional digits, 5 additional digits	OFF
Send system character	ON
Open separator	ON
Convert to EAN-13	OFF
UPC-E	
Allow reading UPC-E0	ON
Allow reading UPC-E1	OFF
Send check character	ON
2 additional digits	OFF

5 additional digits	OFF	
Mandatory additional digits, 2 additional digits	OFF	
Mandatory additional digits, 5 additional digits	OFF	
Open separator	ON	
Send system character	ON	System Character
Convert to UPC-A	OFF	
EAN-8		
Allow reading	ON	
Send check character	ON	
2 additional digits	OFF	
5 additional digits	OFF	
Mandatory additional digits, 2 additional digits	OFF	
Mandatory additional digits, 5 additional digits	OFF	
Open separator	ON	
Convert to EAN-13	OFF	
EAN-13		
Allow reading	ON	
Send check character	ON	
2 additional digits	OFF	
5 additional digits	OFF	

Mandatory additional digits, 2 additional digits	OFF
Mandatory additional digits, 5 additional digits	OFF
Open separator	ON
Convert to ISBN	OFF
Send ISBN check character	OFF
Convert to ISSN	OFF
Code 128	
Allow reading	ON
Default reading length	0-80
GS 1-128	
Allow reading	ON
Default reading length	0-80
ISBT 128	
Allow reading	OFF
Code 39	
Allow rading	ON
MOD43 check	OFF
Send check character	OFF
Send start and end character	OFF
Full ASCII	OFF

Default reading length	0-48	
Code 32		
Allow reading	OFF	
Send check character	ON	
Add A before the barcode	OFF	
Code 93		
Allow reading	ON	
Default reading length	0-80	
Code 11		
Allow reading	OFF	
Open check character	ON	1 check character
Send check character	ON	
Default reading length	2-80	
Codabar		
Allow reading	ON	
Open check character	OFF	
Send check character	OFF	
Send start and end character	OFF	
Start and end character format	ABCD/ABCD	
Default reading length	2-60	

Interleaved 2 of 5	
Allow reading	ON
Open check character	OFF
Send check character	OFF
Default reading length	1-80
Matrix 2 of 5	
Allow reading	ON
Open check character	OFF
Default reading length	1-80
Industrial 2 of 5	
Allow reading	ON
Default reading length	1-45
Standard 2 of 5	
Allow reading	OFF
Default reading length	1-45
MSI Plessey	
Allow reading	OFF
Open check character	OFF
Send check character	OFF
Default reading length	1-255

Telepen	
Allow reading	OFF
Character Type	Letter type
Default reading length	1-60
RSS-14	
Allow reading	ON
RSS-Limited	
Allow reading	ON
RSS-Expanded	
Allow reading	ON
Default reading length	4-74
QR Code	
Allow reading	ON
Reverse reading	OFF
Default reading length	1-7089
QR URL Code	Off
Micro QR Code	
Allow reading	ON
Reverse reading	OFF
Data Matrix	

Allow reading	ON
Allow reading rectangular codes	OFF
Reverse reading	OFF
Default reading length	1-3116
PDF 417	
Allow reading	ON
Default reading length	1-2750
Micro PDF 417	
Allow reading	OFF
Default reading length	1-366
MaxiCode	
Allow reading	OFF
Default reading length	1-150
Aztec	
Allow reading	OFF
Reverse reading	OFF
Default reading length	1-3832
HanXin Code	
Allow reading	OFF
Default reading length	1-7883

China Post Code	
Allow reading	OFF
Default reading length	2-80
GS1 Composite Code	
Allow reading	OFF
Default reading length	1-2435

6.5 Appendix-Code ID & AIM ID

Number	Barcode Type	Code ID	AIM ID	Description
1	Code 128	A	]C0	
2	GS1 128	B	]C1	
3	EAN-8	C	]E4	
4	EAN-8 with Add-on	C	]E3	
5	EAN-13	D	]E0	
6	EAN-13 with Add-on	D	]E3	
7	UPC-E	E	]E0	
8	UPC-E with Add-on	E	]E3	
9	UPC-A	F	]E0	
10	UPC-A with Add-on	F	]E3	
11	UPC-E1	E	]X0	
12	ISBN	d	]E0	
13	Code11	1	]Hm	m: 0,1,3
14	Code39 Base32	f	]X0	
15	Interleaved 2 of 5	G	]Im	m: 0,1,3
16	Industrial 2 of 5	h	]S0	
17	Standard 2 of 5	H	]R0	
18	Code 39	I	]Am	m: 0,1,3,4,5,7
19	Codabar	J	]Fm	m: 0,2,4
20	MSI Plessey	K	]Mm	m: 0,1,2,3,5,6,7
21	Code 93	L	]G0	

22	GS1 Databar Omnidirectional	M	]e0	
23	GS1 DatabarLimited	[	]e0	
24	GS1 DatabarExpanded	]	]e0	
25	HongKong 2 of 5(China Post)	P	]X9	
26	Matrix 2 of 5	Q	]X0	
27	PDF417	N	]Lm	m: 0,1,2
28	Micro PDF417	O	]Lm	m: 0,1,2,3,4,5
29	Hanxin	S	]XH	
30	AztecCode	T	]zm	m: 0-9,A-C
31	QR code	U	]Qm	m: 0-6
32	Micro QR	U	]Qm	m: 0-6
33	Data Matrix	V	]dm	m: 0-6
34	Maxi Code	W	]Um	m: 0-3
35	GS1 Composite Code	M/[/] / ...	]e0	
36	Telepen	8	]Bm	m: 0,1,2,4

Note: The CodeID of GS1 Composite Code depends on the type of composite code.

6.6 Appendix-Control Character List

Note: 0-31 of the ASCII code table are the control characters in different interface modes. The scanner can use the relevant settings to achieve the functions of the following table.

Hexadecimal	ASCII (Decimal)	Corresponding key value (Function key operation)	Corresponding key value (Ctrl key operation, Escap 1)	Corresponding key value (Ctrl key operation, Escape 2)
00	00	Null	Ctrl+2	Ctrl+@
01	01	Keypad Enter	Ctrl+A	Ctrl+A
02	02	Caps lock	Ctrl+B	Ctrl+B
03	03	Right Arrow	Ctrl+C	Ctrl+C
04	04	Up Arrow	Ctrl+D	Ctrl+D
05	05	Null	Ctrl+E	Ctrl+E
06	06	Null	Ctrl+F	Ctrl+F
07	07	Enter	Ctrl+G	Ctrl+G
08	08	Left Arrow	Ctrl+H	Backspace
09	09	Horizontal Tab	Ctrl+I	Tab
0A	10	Down Arrow	Ctrl+J	Enter
0B	11	Vertical Tab	Ctrl+K	Ctrl+K
0C	12	Backspace	Ctrl+L	Ctrl+L
0D	13	Enter	Ctrl+M	Enter
0E	14	Insert	Ctrl+N	Ctrl+N

0F	15	Esc	Ctrl+O	Ctrl+O
10	16	F11	Ctrl+P	Ctrl+P
11	17	Home	Ctrl+Q	Ctrl+Q
12	18	Print Screen	Ctrl+R	Ctrl+R
13	19	Delete	Ctrl+S	Ctrl+S
14	20	tab+shift	Ctrl+T	Ctrl+T
15	21	F12	Ctrl+U	Ctrl+U
16	22	F1	Ctrl+V	Ctrl+V
17	23	F2	Ctrl+W	Ctrl+W
18	24	F3	Ctrl+X	Ctrl+X
19	25	F4	Ctrl+Y	Ctrl+Y
1A	26	F5	Ctrl+Z	Ctrl+Z
1B	27	F6	Ctrl+[	Ctrl+[
1C	28	F7	Ctrl+\	Ctrl+\
1D	29	F8	Ctrl+]	Ctrl+]
1E	30	F9	Ctrl+6	Ctrl+^
1F	31	F10	Ctrl+-	Ctrl+_

6.7 Appendix-ASCII Code Table

Note: 0-31 of ASCII code table are invisible characters, 32-127 are visible characters

Hexadecimal	ASCII (Decimal)	Character
00	00	NUL (Null char.)
01	01	SOH (Start of Header)
02	02	STX (Start of Text)
03	03	ETX (End of Text)
04	04	EOT (End of Transmission)
05	05	ENQ (Enquiry)
06	06	ACK (Acknowledgment)
07	07	BEL (Bell)
08	08	BS (Backspace)
09	09	HT (Horizontal Tab)
0A	10	LF (Line Feed)
0B	11	VT (Vertical Tab)
0C	12	FF (Form Feed)
0D	13	CR (Carriage Return)
0E	14	SO (Shift Out)
0F	15	SI (Shift In)
10	16	DLE (Data Link Escape)

11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)
1A	26	SUB (Substitute)
1B	27	ESC (Escape)
1C	28	FS (File Separator)
1D	29	GS (Group Separator)
1E	30	RS (Request to Send)
1F	31	US (Unit Separator)
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	$ (Dollar Sign)

25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	((Right / Closing Parenthesis)
29	41	) (Right / Closing Parenthesis)
2A	42	* (Asterisk)
2B	43	+ (Plus)
2C	44	, (Comma)
2D	45	- (Minus / Dash)
2E	46	. (Dot)
2F	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8

39	57	9
3A	58	: (Colon)
3B	59	; (Semi-colon)
3C	60	< (Less Than)
3D	61	= (Equal Sign)
3E	62	> (Greater Than)
3F	63	? (Question Mark)
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4A	74	J
4B	75	K
4C	76	L

4D	77	M
4E	78	N
4F	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5A	90	Z
5B	91	[(Left / Opening Bracket)
5C	92	\ (Back Slash)
5D	93	] (Right / Closing Bracket)
5E	94	^ (Caret / Circumflex)
5F	95	_ (Underscore)
60	96	' (Grave Accent)

61	97	a
62	98	b
63	99	c
64	100	d
65	101	e
66	102	f
67	103	g
68	104	h
69	105	i
6A	106	j
6B	107	k
6C	108	l
6D	109	m
6E	110	n
6F	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t

75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7A	122	z
7B	123	{ (Left/ Opening Brace)
7C	124	| (Vertical Bar)
7D	125	} (Right/Closing Brace)
7E	126	~ (Tilde)
7F	127	DEL (Delete)