
SPACE

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Version History

Version Number	Version Description	Release Date
A	Initial Version	202601

Getting Started

About This User Manual

This user manual includes code system settings, function settings (illumination, keyboard type and factory reset, etc.) and interface settings. To change the required functions, scan the corresponding configuration code according to the following configuration. All items marked with (*) are the factory default settings.

Using the setting code

Use the device to scan the configuration code to perform various configurations.

I. System Settings

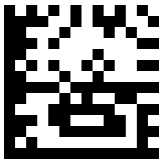
Default Settings

All scanners have a factory default setting. Scanning the "Factory Settings" barcode will restore all scanner properties to their factory state.

You are most likely to use this barcode in the following situations:

Scanner settings are incorrect, such as inability to read barcodes.

You have forgotten the previous settings you made on the scanner and do not want to be affected by the previous settings.



RBBBBBA

Factory Settings (Recall Default)

User Default Settings

In addition to the factory default settings, you can save your frequently used settings as user default settings.

User default settings also include all scanner property settings, and user default settings will be saved and not lost unless the current settings are saved as user default settings again. Scanning the "Save User Default Settings" will save the current settings as user default settings and overwrite the previously set user default settings. Custom default configuration; after user custom configuration is completed, scan the custom default configuration



RBBB237

Save User Default Settings

Scanning the "Restore User Default Settings" will switch the scanner to the user default settings state. The device will restart after configuration is completed;



RBBB236

Restore User Default Configuration

Note: Scanning the "Factory Settings" barcode will not delete the user default settings saved in the scanner.

Product Information Inquiry

Obtain Current Version Number

You can obtain product information by scanning the "Get Current Version Number" setting code. After scanning this setting code, the scanner will immediately send product information to the host.



RBBBB26

Obtain Current Version Number

Obtain Serial Number

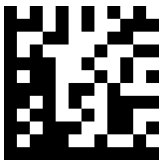


RBBB249

Obtain Serial Number

Light Settings

Illumination Light



722431

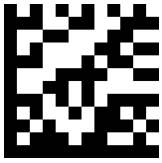
***On**



722430

Off

Aiming Light



722331

***On**



722330

Off

LED Decoding Indicator

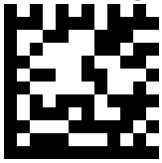
The indicator light turns on after successful decoding, and is off otherwise



722540

***LED indicator normal**

The indicator light turns off after successful decoding, and is on otherwise



722541

LED indicator reverse

The LED indicator is always off, no change after successful scanning



722542

LED indicator always off

The LED indicator is always on, no change after successful scanning



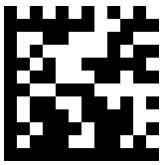
722543

LED indicator always on

Buzzer Configuration

Decoding Success Sound Settings

Scanning "Off" can disable the sound after successful decoding, scanning "On" can restore the sound after successful decoding.



722931

***On**



722930

Off

Decoding Success Sound Duration Settings



3A6630

***Normal**



3A6631

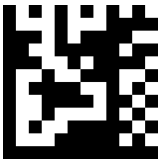
Short

Decoding Success Sound Frequency Settings



3A7757

***2.7KHz**



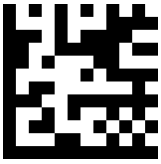
3A7756

1.6KHz



3A7755

2.0KHz



3A7754

2.4KHz



3A7753

3.1KHz



3A7752

3.5KHz



3A7751

4.2KHz

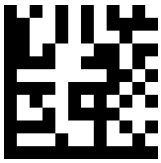


3A7750

No sound

Vibration Configuration

Vibrate After Decoding Success



356442

On



356440

***Off**

Polarity Configuration



356230

Low active



356231

***High active**

II. Communication Settings

USB Communication

Introduction

When you connect the scanner and the host via USB, there are the following 2 connection methods available, and the default method can be set according to the actual needs of the customer:

USB Keyboard: This method virtualizes the scanner input as USB keyboard input, no need to set commands through the USB interface, and the data in the barcode can be directly input as keyboard keys, no driver is needed, and the host can easily obtain the data.

USB COM serial port: An interface that complies with the CDC specification defined by the USB organization, the host virtualizes it as a serial port, and the host's operation of this serial port is consistent with the operation of a physical serial port. A driver needs to be installed on the host.

Recognized as USB keyboard type, scan the "USB Keyboard" barcode.

In the application software environment where the serial port is required, the USB can be recognized as the USB COM type. To recognize as USB COM type, the user needs to install the driver.

Under the condition of USB data cable connection, the scanner can be set to HID Keyboard input mode. In this mode, the scanner becomes a virtual keyboard, and the host receives the data as if it were receiving input from a real keyboard. After decoding, the scanner transmits the data by simulating key presses on the virtual keyboard that correspond to the data.

USB Keyboard

When the USB data cable is connected, the scanner can be set to HIDKeyboard input mode. In this mode, the scanner will become a virtual keyboard, and the data receiving host will accept input from this virtual keyboard as if it were real keyboard input. The process of sending data decoded by the scanner is to press each key in the virtual keyboard that corresponds to the data.



RBB7BBA

*USB Keyboard (USB Keyboard)

Note: If the input box on the host can accept keyboard input, the scanner can use this communication method to directly input the decoded data into the host's input box without any other auxiliary programs.

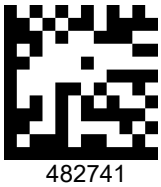
USB Transfer Rate

USB polling rate: 48274x (0 high, 1 medium, 2 low)



482740

***High**



482741

Medium



482742

Low

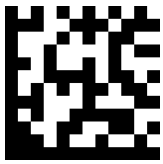
USB Keyboard Character Delay Transmission

Delay time 0 to 35ms



634750

***0ms**



634751

5ms



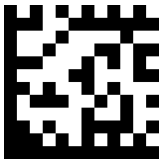
634752

10ms



634753

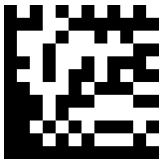
15ms



634754
20ms



634755
25ms



634756
30ms



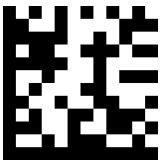
634757
35ms

Carriage Return and Line Feed Delay

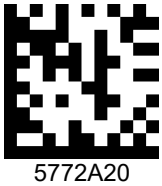
Delay time: 5772Ax x=[0,255], delay time x*5ms



5772A0
***0ms**



5772A10
50ms



5772A20
100ms

USB Virtual Serial Port

When you use USB connection and also want the host to receive data in serial port mode, you should use the USB virtual serial port mode. From the host system interface perspective, the scanner is equivalent to being connected to the host via a serial port.



RBB7BB9

USB COM

USB POS



RBB7BB8

TTL_232 Communication

Serial communication interface is a common way to connect the reader module with the host device (such as PC, POS, etc.). When the reader module and the host are connected via a serial cable, the system defaults to serial communication mode. When using the serial communication interface, the reader module and the host device must have completely matching communication parameter configurations to ensure smooth communication and correct content. The serial port-related configuration is: 9600 baud rate, 8 data bits, no parity bit, 1 stop bit. This standard interface is DB9.



RBB7BBB

RS 232(TTL 232)

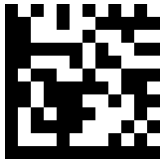
RS232 Baud Rate

Baud rate is the number of bits transmitted per second in serial port data communication. The baud rate used by the scanner and the data receiving host must be consistent to ensure accurate data transmission. The scanner supports the following listed baud rates, with the unit being bit/s. Default: 9600bps



37A260

300



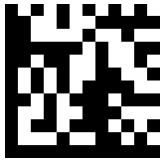
37A261

600



37A262

1200



37A263

2400



37A264

4800



37A265

***9600**



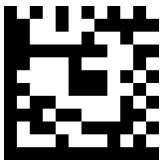
37A267

19200



37A268

38400



37A269

57600



37A2610

115200

Data Bits

You can choose to transmit 7 or 8 data bits. Please ensure that the data bits of the scanner and the data receiving host are consistent.



382530

7 bits



382531

***8 bits**

Stop Bits

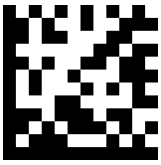
The stop bit is located at the end of each byte transmitted, used to indicate that the byte transmission is complete and the next byte data can be received.

The default setting is 1 stop bit. If a longer stop time is needed, 2 stop bits can be set.



382630

2 bits



382631

***1 bit**

Parity Bit Settings

The scanner can use different parity check character types during serial port transmission, but they must be consistent with the parity check character type of the host.

Select odd parity: if the number of '1's in the transmitted data is odd, the parity character is 0.

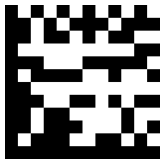
Select even parity: if the number of '1's in the transmitted data is even, the parity character is 0.

Select no parity: no parity check character is sent.



382750

O



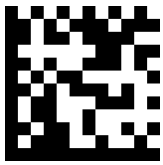
382751

S



382752

E



382753

M



382754

***N**

Serial Port Debugging

Serial port and virtual serial port coexist. The serial port transmits data, and the virtual serial port transmits images.



RBB7BAB

III. Scanning Mode

Manual trigger mode: Press and hold the trigger key to start reading the code. The reading ends when the code is successfully read or the trigger key is released.

Induction mode: After turning on, the scanner enters the reading state until the code is successfully read or the timeout for a single read is reached, then stops reading. When a new barcode is presented, it will re-enter the reading state. In this mode, the re-read delay can be used to prevent the same barcode from being read multiple times. Sensitivity can be adjusted to change the scanner's sensitivity to light in induction mode.

Continuous reading mode: After turning on, the scanner remains in reading state. Pressing and releasing the key allows the scanner to switch between reading and stopping reading. In this mode, the re-read delay can be used to prevent the same barcode from being read multiple times. When the reading setting code switches to this mode, the scanner will stop reading for 3 seconds and then enter continuous reading state.

Pulse mode: When the key is pressed, the scanner starts reading. The reading stops when the code is successfully read or the timeout for a single read is reached. In this mode, the timeout for a single read starts from when the key is released.

Batch reading mode: When the key is pressed, the scanner starts reading. The reading stops when the key is released. During the time the key is pressed, a successful read will trigger a prompt sound and output the barcode information. As long as the key is not released, the scanner will continue reading. The same barcode can only be read and output once during the time the key is pressed.

Manual Trigger Mode



3A5662

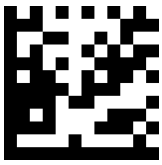
***Manual mode (Manual trigger mode)**

Read Timeout Settings

Single read timeout: The amount of time the scanner is in reading state.

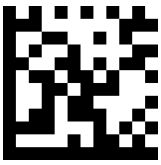
The set time range is 7262Ax (seconds = x*1.5s) x=(1~255). When set to 0, the scanner will remain in reading state indefinitely.

Default: 30 seconds.



7262A10

15s



7262A20

***30s**



7262A40

60s



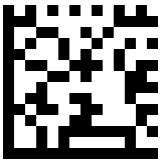
7262A80

120s



7262A120

180s



7262A160

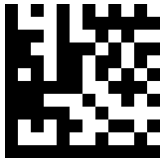
240s



7262A200

300s

Automatic Scanning Mode



3A5660

Automatic Scanning Mode

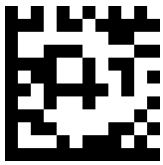
Continuous Data Transmission

On/Off



63B231

***On**

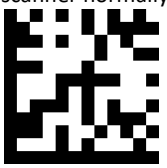


63B230

Off

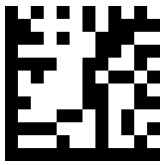
Turn Off Illumination After Decoding Success

In some special scenarios, the lighting off is used as a decoding success prompt. Regardless of whether a single or multiple barcodes are decoded in the current frame, only whether the current frame is successfully decoded matters. If successful, the lighting turns off for 400/600/800ms; otherwise, the next frame decoding continues. During the lighting off period, the scanner normally captures images but does not decode.



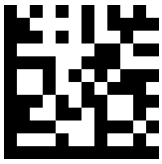
466240

***Off**



466241

Off for 400ms



466242

Off for 600ms



466243

Off for 800ms

Batch Reading

In the case of multiple barcodes, where each barcode is only output once, this function can be configured to achieve batch reading of multiple barcodes within a certain period without repeated output.

3A966x, default x=0 (off), when x is 1-15, the reading function is enabled, and the barcode interval time is x seconds.

Note:

The interval time starts from the output of the last successfully decoded barcode. If a new barcode is decoded within this time, the timer is refreshed, and the already decoded barcode is temporarily stored without repeated output. The storage limit is 50 barcodes; those exceeding 50 will not overwrite the stored ones;

Only when the reading interval time timer ends, the stored barcodes are cleared, and the next round of reading is initiated.

Example:



3A9660

***Off**



3A9665

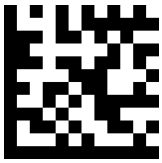
Interval 5s



3A96610

Interval 10s

Sensing Mode



3A5668

Sensing Mode

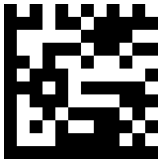
Immediate Response of Illumination and Aiming Light After Decoding Success

Configure with low brightness or off of the induction lighting lamp.
When enabled, the decoding success lighting aiming lamp is immediately turned off/low brightness.
When disabled, the response is delayed by 4s.



63B931

***On**



63B930

Off

Low Brightness or Turn Off Sensing Illumination Light



6B2531

***Off**

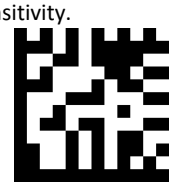


6B2530

Low brightness

Sensitivity

Sensitivity specifies the scanner's response level to image changes in induction mode. This setting is only effective for the induction mode of the reading mode. The custom sensitivity range is 1 to 15. 1 is the highest sensitivity, and 15 is the lowest sensitivity.



723261

***1**



723262

2



723263

3



723264

4



723265

5



723266

6



723267

7



723268

8



723269

9



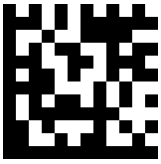
7232610

10



7232611

11



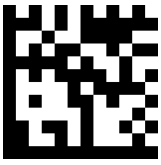
7232612

12



7232613

13



7232614

14

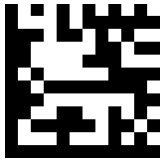


7232615

15

Reading Mode

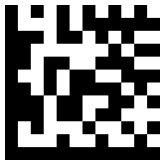
Batch reading mode: When the key is pressed, the scanner starts reading. The reading stops when the key is released. During the time the key is pressed, a successful read will trigger a prompt sound and output the barcode information. As long as the key is not released, the scanner will continue reading. The same barcode can only be read and output once during the time the key is pressed.



3A5663

Pulse Mode

When the key is pressed, the scanner starts reading. The reading stops when the code is successfully read or the timeout for a single read is reached. In this mode, the timeout for a single read starts from when the key is released.



3A5666

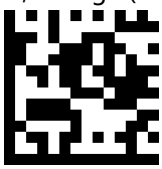
Time Interval Configuration for Same Barcode

The same barcode time can be set to 1-127 (minimum 1, maximum 127)

When creating a configuration barcode, add the "^3" character at the beginning, for example: ^33AB29x (X represents the same barcode interval time, 1 represents 50ms, 127 represents

127*50ms), select the Data Matrix code. The default time interval is 750ms

3AB29x, x range (1-127)



3AB291

50ms



3AB292

100ms



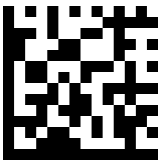
3AB293

150ms



3AB294

200ms



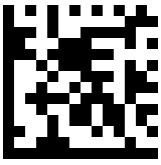
3AB295

250ms



3AB2910

500ms



3AB2915

***750ms**



3AB2920

1000ms

Differentiate Same Barcode by Code Type

For certain special scenarios, barcodes with two different code formats and the same content can be configured as needed to distinguish or not distinguish the code format.



3A5230

***Do not distinguish code format**



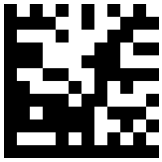
3A5231

Distinguish code format

Multi-Barcode Reading Settings

Barcode Quantity Lock

On/Off



686631

On



686630

***Off**

Multi-Code Sound Settings

One sound between multiple codes, or multiple sounds (multiple sounds depend on the number of locked barcodes)



47A731

One sound



47A730

***Multiple sounds**

Multi-Code Carriage Return and Line Feed Settings

Enable or disable carriage return and line feed between multiple codes



686731

Cancel carriage return and line feed



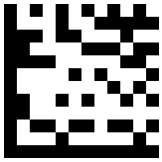
686730

***Add carriage return and line feed**

Barcode Quantity Settings

Setting (0-19): When set to 0, a maximum of 1 barcode can be read; when set to 19, a maximum of 20 barcodes can be read

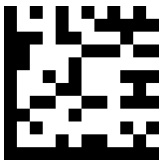
Configuration command: 3A227x x=[0,19], default x=0;



3A2270



3A2271



3A2272



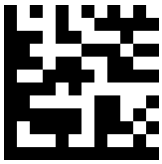
3A2273



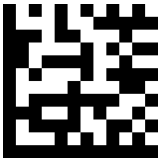
3A2274



3A2275



3A2276



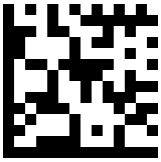
3A2277



3A2278



3A2279



3A22710



3A22711



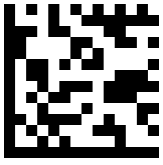
3A22712



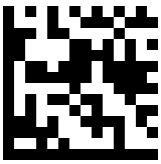
3A22713



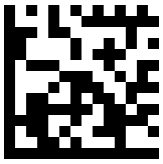
3A22714



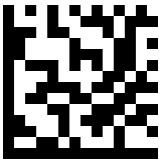
3A22715



3A22716



3A22717



3A22718



3A22719

Multi-Code Sorting Output



39B2A0

***Off**

Collation



39B2A1

From small to large



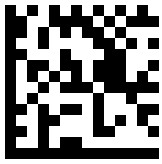
39B2A2

From large to small

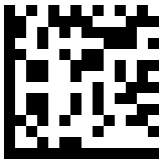


39B2A3

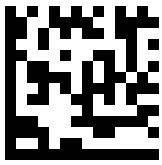
From left to right



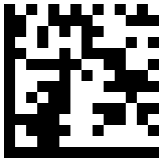
39B2A4
From right to left



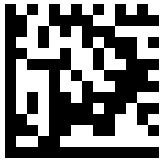
39B2A5
From top to bottom



39B2A6
From bottom to top



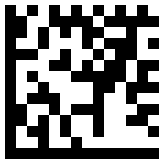
39B2A7
From 1D to 2D



39B2A8
From 2D to 1D



39B2A9
From short to long



39B2A10
From long to short

IV. Data Editing (data edit)

About Output Configuration

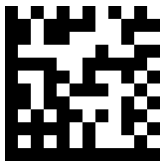
This chapter allows you to configure the device output, including carriage return/line feed, adding prefix/suffix, setting barcode length, removing barcode digits (removing from the beginning/end), and switching between multiple keyboard layouts. You only need to scan the corresponding configuration code in sequence according to the requirements.

Carriage Return/Line Feed Settings



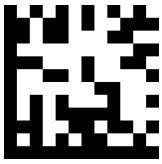
388531

***Add carriage return**



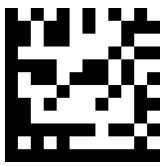
388530

Cancel carriage return



388431

Add line feed



388430

***Cancel line feed**

Remove Start/End Characters

Remove x characters from the beginning **7242Ax (x is the number of characters to remove)**

Remove x characters from the end **7272Ax (x is the number of characters to remove)**

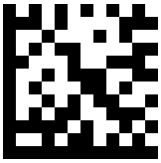
Remove characters from the barcode (the last 1 represents removing one character, if it is 2, remove two characters, if it is 0, no characters are removed, users can configure it themselves)

Example:



7242A1

Remove 1 character from the beginning



7272A1

Remove 1 character from the end

Retain Start/End Characters

Position



684230

Keep the beginning



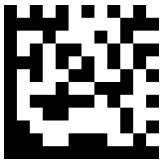
684231

Keep the end

Keep x characters, no operation when x=0

7252Ax (x is the length of characters to keep)

Example:



7252A4

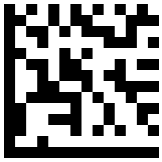
Keep 4 characters

Note: To keep the first 4 characters, scan Keep the beginning and Keep 4 characters in sequence

Set Barcode Length

Barcode length can be set to 1-255 (minimum length is 1, maximum length is 255), if the length is less than x, it will not be output. The default minimum length is 3.

When creating a configuration barcode, add the "^3" character at the beginning, for example: ^323A2AX (X represents the barcode length), select the data matrix code



23A2A1

Minimum length is 1



23A2A2

Minimum length is 2

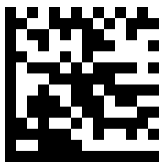


23A2A255

Length is 255

Barcode Length Lock

23B2Ax Do not output if not equal to x (this configuration does not take effect for certain code formats with specific character length requirements)



23B2A8

Barcode length is locked to 8 characters

Keyboard Mode Case Conversion



624241

All lowercase



624242

All uppercase



624240

***Restore default**



624243

Uppercase and lowercase swap

Keyboard Mode Caps Lock Lock

After enabling, the keyboard output content is not affected by the actual Caps Lock key state. It is disabled by default



5B8431

Enable



5B8430

***Disable**

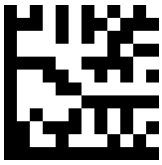
Keyboard Mode Chinese Output

The keyboard mode can output Chinese. If you need to output Chinese, please scan the corresponding configuration code according to the requirements. (The default state is no Chinese, but other languages can be input)



623250

***Default**



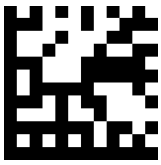
623251

For Word, QQ



623252

For Notepad, Excel



637831

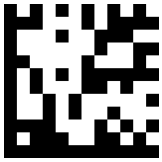
BIG5 Traditional ON



637830

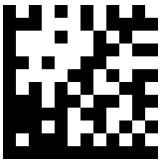
BIG5 Traditional OFF

Serial Port Output Settings



628641

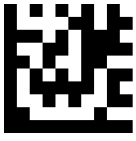
Serial port output in GBK



628640

Serial port output in UTF-8

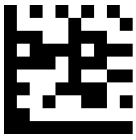
Byte Code (Decimal)



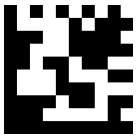
0



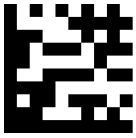
1



2



3



4



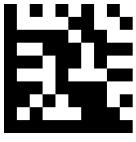
5



6



7



8



9

Keyboard Language and Country Type



6252A0

Belgium



6252A1

United Kingdom



6252A2

France



6252A3

Germany



6252A4

Italy



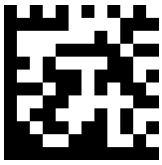
6252A5

Spain



6252A6

***America**

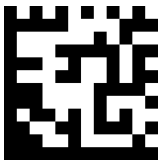


6252A7

Singapore

English-

American keyboard



6252A9

Salvador



6252A10

Japan



6252A11

Sierra Leone



6252A12

Turkey



6252A14

Hungary



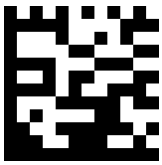
6252A16

Thai



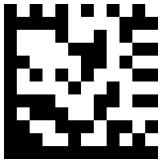
6252A17

Vietnamese



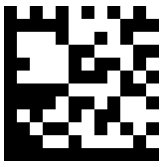
6252A22

Czech Republic



6252A23

Slovakia



6252A24

Russian language (Russia)



6252A26

Arab



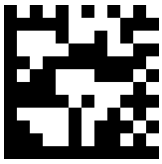
6252A27

Portuguese BRAZ_ABNT-Brazil



6252A28

Swiss GERMAN_QWERTZ



6252A29

Italy142



6252A30

Swiss FRENCH_QWERTZ



6252A31

Portuguese Portugal

V. Barcode Code Type Configuration

Introduction

Each type of barcode has its unique properties. Through the settings in this chapter, the scanner can be adjusted to adapt to these property changes.

The fewer barcode types are enabled, the faster the scanner's reading speed. You can disable the scanner from reading barcode types that are not used to improve the scanner's performance.

About Barcode Symbology Configuration

This chapter allows you to configure the device's barcode symbology, including Airline 2 of 5, Aztec Code, Codebar, Codablock A, Codablock F, Code 128, Code 11, Code 39, Code 32, Code 93, Composite, Data Matrix Code, UPC/EAN, EAN-8, EAN-13, UPC-A, UPC-E0, UPC-E1, GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, HANXIN, Hong Kong 2 of 5 (China post), Interleaved 2 of 5, Matrix 2 of 5, Maxicode, MSI, PDF417, MicroPDF417, Pharmacode, QR Code, MicroQR Code, Straight 2 of 5 Industrial, Telepen, Trioptic Code, GM, Dot Code, Korea Post, and OCR, among many other supported barcode configurations. You only need to scan the corresponding configuration codes in sequence according to the requirements. (Default is *)

Enable All Barcode Code Types

Reading "Enable All Barcodes", the scanner will read all readable barcodes.



RBBBAB9

Enable All Barcodes

Disable All Barcode Code Types

Reading "Disable All Barcodes", the scanner will only read the set code. All other barcodes will not be readable.

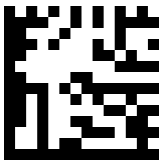


RBBBAB8

Disable All Barcodes

Enable All 1D Code Types

Reading "Enable All 1D Barcodes", the scanner will read all 1D barcodes. The default barcode format is 2D.



RBBBAB7

Enable All 1D Barcodes

Disable All 1D Code Types

Reading "Disable All 1D Barcodes", the scanner will only read the default 2D barcode format. All 1D barcodes will not be readable, except for the set code.



RBBBAB6

Disable All 1D Barcodes

Enable All 2D Code Types

Reading "Enable All 2D Barcodes", the scanner will read all 2D barcodes. The default barcode format is 1D.



RBBBAB5

Enable All 2D Barcodes

Disable All 2D Code Types

Reading "Disable All 2D Barcodes", the scanner will only read the default 1D barcode format. All 2D barcodes will not be readable, except for the set code.



RBBBAB4

Disable All 2D Barcodes

1. Airline 2 of 5

Enable/Disable Reading



222631

Enable



222630

***Disable**

Barcode Length Settings

You can configure the scanner to read only Airline 2 of 5 barcodes with a length between (inclusive) the minimum and maximum length. The maximum length limit is 4-80 characters. If the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported.

Minimum length setting 7522Ax (X represents the length of the barcode)

Maximum length setting 7532Ax (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, for example: Minimum length setting ^37522Ax (X represents the length of the barcode),

Example: Minimum read 3 characters, maximum read 10 characters;



7522A3

Minimum 3 characters



7532A10

Maximum 10 characters

2.BC412

Enable/Disable Reading



6A7231

Enable



6A7230

***Disable**

3. Codabar

Enable/Disable Reading



223631

***Enable**



223630

Disable

Check Digit

Codabar barcode data does not require a check character. If a check character is present, it is always the last byte of the data. The check character is a value calculated from all data except the check character itself, used to verify the correctness of the data.

If set to "No Check", the scanner will normally transmit all barcode data.

If set to "Enable Check and Do Not Transmit Check", the scanner will verify the last byte of the barcode data. If the check passes, it will transmit all data except the last check character. If the check fails, the barcode content will not be sent.

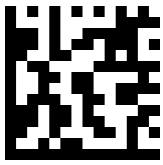
If set to "Enable Check and Transmit Check Character", the scanner will verify the last byte of the barcode data. If the check passes, it will transmit the check character as the last byte of the data. If the check fails, the barcode content will not be sent.



5AB440

***No Check**

No Check: Both check and no-check barcodes can be transmitted



5AB442

Enable Check and Do Not Transmit



5AB441

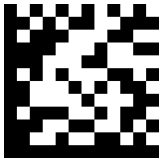
Enable Check and Transmit Check Character

When set to "Enable Check and Do Not Transmit Check", if the data length minus one byte of the check character is less than the minimum decoding length limit (default minimum decoding characters is 3 characters), the decoding will fail.

For example: If the current scanner setting for Codabar has a minimum decoding length of 3 bytes and does not transmit the check character, then reading a Codabar barcode with a total length of 3 bytes including the check character will fail!

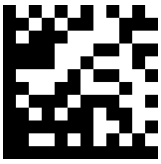
Start and Stop Characters

Codabar barcode data has a start and stop character at the beginning and end, respectively. The start and stop characters are one of the four characters: "A", "B", "C", or "D". You can set whether to transmit the start and stop characters along with the barcode data after a successful read.



299931

Output Start and Stop Characters



299930

***Do Not Output Start and Stop Characters**

Color Configuration for Normal and Inverted



644840

***Enable Normal Color**



644841

Enable Normal and Inverted Color

Barcode Length Settings

You can configure the scanner to read only Codabar barcodes with a length between (inclusive) the minimum and maximum length. The maximum length limit is 4-60 characters. If the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported.

Minimum length setting 73A2Ax (X represents the length of the barcode)

Maximum length setting 73B2Ax (X represents the length of the barcode)

Create Configuration Barcode

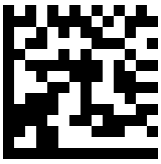
Select Data Matrix code, add the "^3" character before the data, for example: Minimum length setting ^373A2Ax (X represents the length of the barcode),

Example: Minimum read 5 characters, maximum read 9 characters;



73A2A5

Minimum 5 characters



73B2A9

Maximum 9 characters

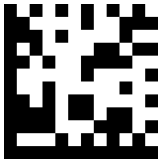
4. Codablock A

Enable/Disable Reading



486231

Enable



486230

***Disable**

5. Codablock F

Enable/Disable Reading



486331

Enable

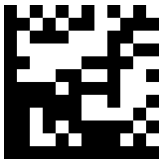


486330

***Disable**

6. Code 128

Enable/Disable Reading



223531

***Enable**



223530

Disable

Color Configuration for Normal and Inverted



643740

***Enable Normal Color**



643741

Enable Normal and Inverted Color

Code128 Damaged



6A6261

On

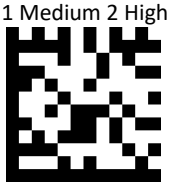


6A6260

***Off**

Code 128 Security Level

0 Low 1 Medium 2 High (Default Low)



686840

***Low**



686841

Medium



686842

High

Narrow Quiet Zone



649640

***Off**



649641

Narrow Quiet Zone



649642

No Quiet Zone

Barcode Length Settings

You can configure the scanner to read only Code 128 barcodes with a length between (inclusive) the minimum and maximum length. The maximum length limit is 1-80 characters. If the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported.

Minimum length setting 7442Ax (X represents the length of the barcode)

Maximum length setting 7452Ax (X represents the length of the barcode)

Create Configuration Barcode

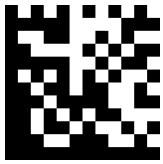
Select Data Matrix code, add the '^3' character before the data, for example: minimum length setting ^37442Ax (X represents the length of the barcode),

Example: Minimum read 3 characters, maximum read 10 characters;



7442A3

Minimum 3 characters



7452A10

Maximum 10 characters

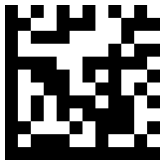
7. Code 11

Enable/Disable Reading



222531

Enable



222530

***Disable**

Check Digit

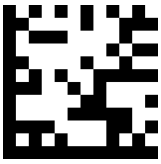
Code 11 barcode data does not require the inclusion of a check character. If a check character is present, it can be the last 1 or 2 characters of the data. The check character is a value calculated from all the data to verify the correctness of the data.

Therefore, when set to 'Prohibited', the scanner will normally transmit all barcode data.



227831

***On**



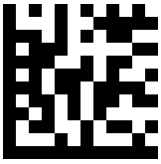
227830

Off



2A2730

One check digit



2A2731

***Two check digits**

Transmit Check Characters



299531

***Transmit check digit**



299530

Do not transmit check digit

When set to 'Do not transmit check digit', if the data length minus 1 byte of the check character is less than the minimum decoding length limit (the default minimum decoding characters is 3 characters), decoding will fail.

For example: If the current scanner settings for Code 11 have a minimum decoding length of 3 bytes and do not transmit the check character, attempting to read a total of 3-byte Code 11 will fail!

Barcode Length Settings

You can configure the scanner to read only Code 11 barcodes with lengths between (inclusive) the minimum and maximum lengths. The maximum length limit is 4-80 characters. If the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported.

Minimum length setting 7382Ax (X represents the length of the barcode)

Maximum length setting 7392Ax (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add the '^3' character before the data, for example: minimum length setting ^37382Ax (X represents the length of the barcode),

Example: Minimum read 4 characters, maximum read 9 characters;



7382A4

Minimum 4 characters



7392A9

Maximum 9 characters

8. Code 39

Enable/Disable Reading



223331

***Enable**

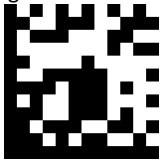


223330

Disable

Full ASCII

Enabling Code 39 Full ASCII can activate the function to read full ASCII characters



224931

***Enable**



224930

Disable

Check Digit

Code 39 barcode data does not require the inclusion of a check character. If a check character is present, it must be the last byte of the data. The check character is a value calculated from all the data except the check character itself to verify the correctness of the data.

If set to "No Check", the scanner will normally transmit all barcode data.

If set to "Enable Check and Do Not Transmit Check", the scanner will verify the last byte of the barcode data. If the check passes, it will transmit all data except the last check character. If the check fails, the barcode content will not be sent.

If set to "Enable Check and Transmit Check Character", the scanner will verify the last byte of the barcode data. If the check passes, it will transmit the check character as the last byte of the data. If the check fails, the barcode content will not be sent.



5B2242

Enable check, do not transmit check



5B2240

***No Check**

No Check: Both check and no-check barcodes can be transmitted



5B2241

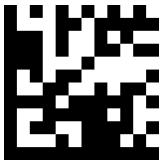
Enable Check and Transmit Check Character

When set to "Enable Check and Do Not Transmit Check", if the data length minus one byte of the check character is less than the minimum decoding length limit (default minimum decoding characters is 3 characters), the decoding will fail.

For example: If the current scanner settings for Code 39 have a minimum decoding length of 3 bytes and do not transmit the check character, attempting to read a total of 3-byte Code 39 will fail!

Start and Stop Characters

It can be set whether to transmit the start and stop characters along with the barcode data after successful decoding.



5B2431

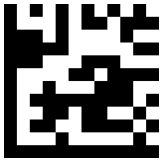
Output Start and Stop Characters



5B2430

***Do Not Output Start and Stop Characters**

Code39 Blur Enhancement



6A4631

On



6A4630

***Off**

Color Configuration for Normal and Inverted



644440

***Positive color enabled**



644441

Enable Normal and Inverted Color

Narrow Quiet Zone



729240

***Off**



729241

Single narrow quiet zone



729242

No Quiet Zone



729243

Adaptive quiet zone detection

Barcode Length Settings

You can configure the scanner to read only Code 39 barcodes with lengths between (inclusive) the minimum and maximum lengths. The maximum length limit is 1-80 characters. If the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported.

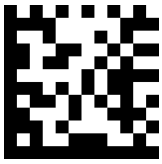
Minimum length setting 7482Ax (X represents the length of the barcode)

Maximum length setting 7492Ax (X represents the length of the barcode)

Create Configuration Barcode

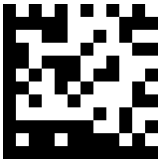
Select Data Matrix code, add the '^3' character before the data, for example: minimum length setting ^37482Ax (X represents the length of the barcode),

Example: Minimum read 3 characters, maximum read 12 characters;



7482A3

Minimum 3 characters



7492A12

Maximum 12 characters

9. Code 32

Before configuration, Code 39 code must be enabled

Enable/Disable Reading



224731

Enable



224730

***Disable**

Prefix Character Output/Disable



6A4531

On



6A4530

***Off**

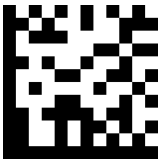
10. Code 93

Enable/Disable Reading



223431

Enable



223430

***Disable**

Color Configuration for Normal and Inverted



644240

***Positive color enabled**



644241

Enable Normal and Inverted Color

Barcode Length Settings

You can configure the scanner to read only Code 93 barcodes with lengths between (inclusive) the minimum and maximum lengths. The maximum length limit is 1-80 characters. If the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported.

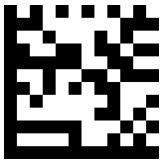
Minimum length setting 7462Ax (X represents the length of the barcode)

Maximum length setting 7472Ax (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add the '^3' character before the data, for example: minimum length setting ^37462Ax (X represents the length of the barcode),

Example: Minimum read 5 characters, maximum read 9 characters;



7462A5

Minimum 5 characters



7472A9

Maximum 9 characters

11. EAN/UPC

Enable/Disable Reading



223831

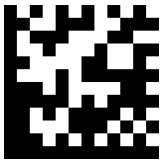
***Enable**



223830

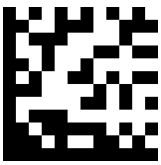
Disable

Two-Digit Add-on Enable



234931

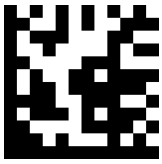
Enable



234930

***Disable**

Five-Digit Add-on Enable



234831

Enable



234830

***Disable**

Require Add-on for All UPC/EAN Codes



234531

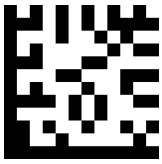
On



234530

***Off**

Color Configuration for Normal and Inverted



643240

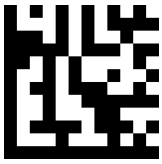
***Positive color**



643241

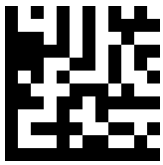
Positive and negative colors

Quiet Zone



6A4240

***Normal**



6A4241

Narrow Quiet Zone



6A4242

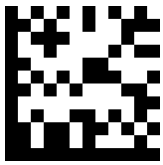
No Quiet Zone

Add-on Space



234231

Add space



234230

Cancel space

12. EAN-8

Enable/Disable Reading



224631

***Enable**



224630

Disable

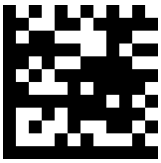
Transmit Check Characters

EAN-8 barcode data is fixed at 8 bytes, with the last 1 byte being the check character.



29B231

***Output EAN-8 check digit**



29B230

Do not output EAN-8 check digit

Convert EAN-8 to EAN-13

Convert EAN-8 to EAN-13 type barcode, then process the barcode information according to the EAN-13 settings.



297431

On



297430

***Off**

Transmit Leading Character



6B2330

***Output EAN-8 header character**



6B2331

EAN-8 does not output header character

13. EAN-13

Enable/Disable Reading



224331

***Enable**



224330

Disable

Transmit Check Characters



29B431

***Output EAN-13 check digit**



29B430

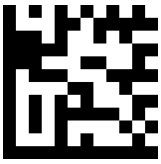
Do not output EAN-13 check digit

Transmit Leading Character



6B2430

***Output EAN-13 header character**



6B2431

EAN-13 does not output header character

14. UPC-A

Enable/Disable Reading



224831

***Enable**



224830

Disable

Transmit Check Characters



297931

***Output UPC-A check digit**



297930

UPC-A does not output check digit

Transmit UPC-A Number System Character



297331

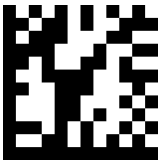
***Output**



297330

Off

Convert UPC-A to EAN-13



297631

On



297630

***Off**

15. UPC-E0

Enable/Disable Reading



224231

***Enable**



224230

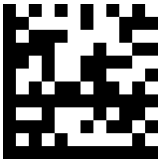
Disable

Check Digit



297831

UPC-E outputs check digit

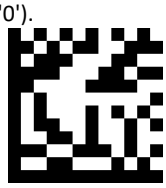


297830

***UPC-E does not output check digit**

Transmit Leading Character

The leading character is part of the UPC symbol and includes the country code (for America it is '0') and the system character ('0').



297531

UPC-E outputs header character



297530

***UPC-E does not output header character**

Convert UPC-E to UPC-A

Convert the UPC-E barcode to UPC-A type barcode, and then process the barcode information according to the UPC-A settings.



297731

UPC-E extended to 12 digits



297730

***Prohibit UPC-E extension to 12 digits**

16. UPC-E1

Enable/Disable Reading



67B431

Enable



67B430

***Disable**

17. GS1 DataBar Expanded

Enable/Disable Reading



226731

Enable



226730

***Disable**

Barcode Length Settings

You can configure the scanner to read only GS1 DataBar Expanded barcodes with lengths (inclusive) between the minimum and maximum lengths. The maximum length limit is 4-74 characters. If the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported.

Minimum length setting 7562Ax (X represents the barcode length)

Maximum length setting 7572Ax (X represents the barcode length)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, for example: Minimum length setting ^37562Ax (X represents the barcode length),

Example: Minimum read length 3 characters, maximum read 26 characters;



7562A3

Minimum 3 characters



7572A26

Maximum 26 characters

18. GS1 DataBar Limited

Enable/Disable Reading



226631

Enable

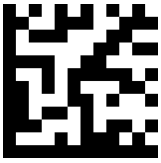


226630

***Disable**

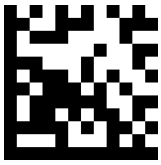
19. GS1 DataBar Omnidirectional

Enable/Disable Reading



226531

Enable



226530

***Disable**

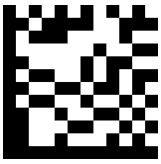
20. Interleaved 2 of 5

Enable/Disable Reading



223731

***Enable**



223730

Disable

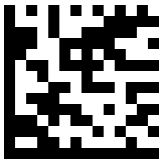
Check Digit

Interleaved 2 of 5 barcode data does not require the inclusion of a check character. If a check character is present, it must be the last byte of the data. The check character is a value calculated from all data except the check character itself, used to verify the correctness of the data.

If set to "No Check", the scanner will normally transmit all barcode data.

If set to "Enable Check and Do Not Transmit Check", the scanner will verify the last byte of the barcode data. If the check passes, it will transmit all data except the last check character. If the check fails, the barcode content will not be sent.

If set to "Enable Check and Transmit Check Character", the scanner will verify the last byte of the barcode data. If the check passes, it will transmit the check character as the last byte of the data. If the check fails, the barcode content will not be sent.



5AB241

Enable check, do not transmit check



5AB240

***No Check**



5AB242

Enable Check and Transmit Check Character

When set to "Enable Check and Do Not Transmit Check", if the data length minus one byte of the check character is less than the minimum decoding length limit (default minimum decoding characters is 3 characters), the decoding will fail.

For example: If the current scanner settings for Interleaved 2 of 5 have a minimum read length of 3 bytes and do not transmit the check character, then reading an Interleaved 2 of 5 with a total length of 3 bytes will not be possible!

Color Configuration for Normal and Inverted



644640

***Enable only positive color**



644641

Enable Normal and Inverted Color

Barcode Length Settings

You can configure the scanner to read only Interleaved 2 of 5 barcodes with lengths (inclusive) between the minimum and maximum lengths. The maximum length limit is 4-80 characters. If the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported.

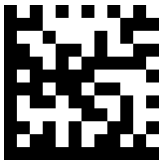
Minimum length setting 7422Ax (X represents the barcode length)

Maximum length setting 7432Ax (X represents the barcode length)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, for example: Minimum length setting ^37422Ax (X represents the barcode length),

Example: Minimum read length 4 characters, maximum read 10 characters;



7422A4

Minimum 4 characters



7432A10

Maximum 10 characters

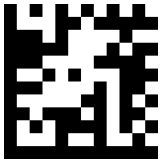
21. Brazil Bank Code (FEBRABAN)

Enable/Disable Reading



6B2231

Enable

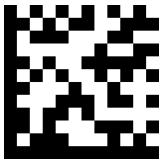


6B2230

***Disable**

22. Matrix 2 of 5

Enable/Disable Reading



222731

Enable



222730

***Disable**

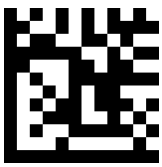
Check Digit

Matrix 2 of 5 barcode data does not require the inclusion of a check character. If a check character is present, it must be the last byte of the data. The check character is a value calculated from all data except the check character itself, used to verify the correctness of the data.

If set to "No Check", the scanner will normally transmit all barcode data.

If set to "Enable Check and Do Not Transmit Check", the scanner will verify the last byte of the barcode data. If the check passes, it will transmit all data except the last check character. If the check fails, the barcode content will not be sent.

If set to "Enable check and transmit check", the scanner will verify the last digit of the barcode. If the check passes, the check character will be transmitted as the last digit of the normal data. If the check fails, the barcode content will not be sent.



29A442

Enable check, do not transmit check



29A441

Enable check, transmit check



29A440

***No Check**

When set to "Enable Check and Do Not Transmit Check", if the data length minus one byte of the check character is less than the minimum decoding length limit (default minimum decoding characters is 3 characters), the decoding will fail.

For example: If the current scanner settings for Matrix 2 of 5 have a minimum read length of 3 bytes and do not transmit the check character, then reading a Matrix 2 of 5 with a total length of 3 bytes will not be possible!

Barcode Length Settings

You can configure the scanner to read only Matrix 2 of 5 barcodes with lengths (inclusive) between the minimum and maximum lengths. The maximum length limit is 4-80 characters. If the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported.

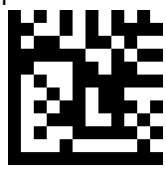
Minimum length setting 7342Ax (X represents the barcode length)

Maximum length setting 7352Ax (X represents the barcode length)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, for example: Minimum length setting ^37342Ax (X represents the barcode length),

Example: Minimum read length 3 characters, maximum read 10 characters;



7342A3

Minimum 3 characters



7352A10

Maximum 10 characters

23. MSI

Enable/Disable Reading



224431

Enable



224430

***Disable**

Barcode Length Settings

You can configure the scanner to read only MSI barcodes with lengths (inclusive) between the minimum and maximum lengths. The maximum length limit is 4-48 characters. If the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported.

Minimum length setting 7542Ax (X represents the barcode length)

Maximum length setting 7552Ax (X represents the barcode length)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, for example: Minimum length setting ^37542Ax (X represents the barcode length),

Example: Minimum read length 6 characters, maximum read 10 characters;



7542A6

Minimum 6 characters

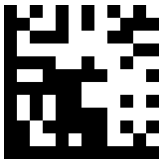


7552A10

Maximum 10 characters

24. Straight 2 of 5 Industrial

Enable/Disable Reading



223231

Enable



223230

***Disable**

Barcode Length Settings

You can configure the scanner to read only Straight 2 of 5 Industrial barcodes with lengths (inclusive) between the minimum and maximum lengths. The maximum length limit is 4-80 characters. If the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported.

Minimum length setting 74A2Ax (X represents the barcode length)

Maximum length setting 74B2Ax (X represents the barcode length)

Create Configuration Barcode

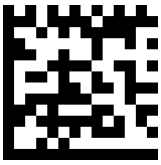
Select Data Matrix code, add the "^3" character before the data, for example: Minimum length setting ^374A2Ax (X represents the barcode length),

Example: Minimum read 3 characters, maximum read 12 characters;



74A2A3

Minimum 3 characters

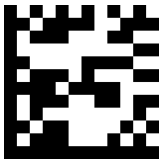


74B2A12

Maximum 12 characters

25. Telepen

Enable/Disable Reading



222931

Enable



222930

***Disable**

Barcode Length Settings

You can configure the scanner to read only Telepen barcodes with lengths (inclusive) between the minimum and maximum lengths. The maximum length limit is 1-60 characters. If the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported.

Minimum length setting 7322Ax (X represents the barcode length)

Maximum length setting 7332Ax (X represents the barcode length)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, for example: Minimum length setting ^37322Ax (X represents the barcode length),

Example: minimum read length 5 characters, maximum read 12 characters;



7322A5

Minimum 5 characters



7332A12

Maximum 12 characters

26. Trioptic Code

Note: Trioptic Code is a special Code 39 symbology, which only reads 6-character barcodes

Enable/Disable Reading



225431

Enable

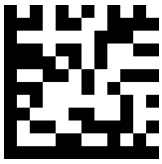


225430

***Disable**

27. Pharmacode

Enable/Disable Reading



68B731

Enable



68B730

***Disable**

28. UK Plessey

Enable/Disable Reading



6A7831

Enable



6A7830

***Disable**

29. ITF-14

Enable/Disable Reading



528431

***Enable**



528430

Disable

30. Composite

Enable/Disable Reading

Composite is a composite code. It is invalid to enable it alone. You need to open micro pdf and rss configuration codes



622231

Enable

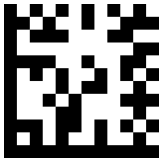


622230

***Disable**

31. Aztec Code

Enable/Disable Reading



228231

Enable



228230

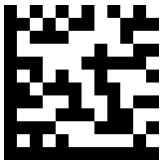
***Disable**

Color Configuration for Normal and Inverted



228331

Normal/Inverted Aztec enable



228330

***Normal Aztec enable**

32. Data Matrix Code

Enable/Disable Reading



227531

***Enable**



227530

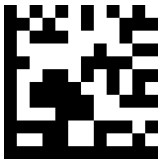
Disable

Color Configuration for Normal and Inverted



227431

***Normal/Inverted DM code enable**



227430

Normal DM

Contrast Configuration



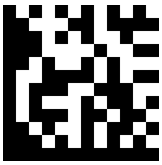
524740

Low contrast off



524741

***Low contrast level 1**



524742

Low contrast level 2

Matrix DM Code



63B531

On



63B530

***Off**

DPM (DOT PEEN)



227231

On



227230

***Off**

DM ECC140

Symbol type ECC 140 enable



227631

Enable

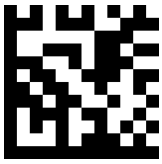


227630

***Off**

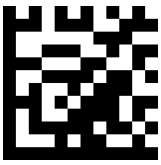
33. Dotcode

Enable/Disable Reading



63B331

Enable



63B330

***Off**

Color Configuration for Normal and Inverted



622430

***Positive color**

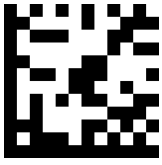


622431

Positive and negative colors

34. Maxicode

Enable/Disable Reading



228631

Enable



228630

***Disable**

35. HANXIN

Enable/Disable Reading



495331

Enable

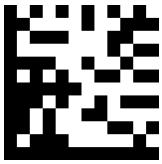


495330

***Disable**

36. PDF417

Enable/Disable Reading



222231

***Enable**



222230

Disable

Color Configuration for Normal and Inverted



649240

***Enable only positive color**

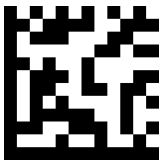


649241

Positive and negative colors

37. MicroPDF417

Enable/Disable Reading



226931

Enable



226930

***Disable**

38. QR Code

Enable/Disable Reading



228431

***Enable**



228430

Disable

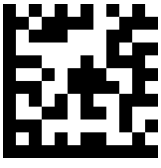
Color Configuration for Normal and Inverted



228530

***Normal**

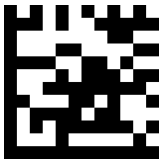
color enable



228531

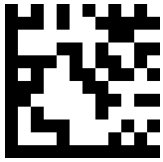
Normal/Inverted enable

URL QR Code



62A230

***Output**



62A231

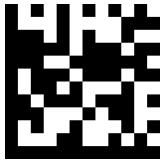
Shield

Quiet Zone Settings



6A6640

***Off**



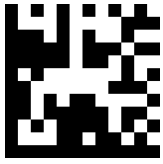
6A6641

Normal quiet zone on



6A6642

Inverted quiet zone on



6A6643

Normal/Inverted quiet zone on

39. RMQR Code

Enable/Disable Reading



6A7531

Enable



6A7530

***Disable**

Color Configuration for Normal and Inverted

QR code normal/inverted needs to be enabled



6A7631

Normal/Inverted enable



6A7630

***Normal enable**

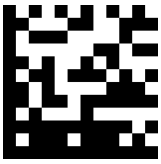
40. Micro QR Code

Enable/Disable Reading



228731

Enable



228730

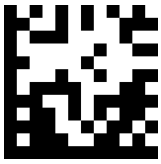
***Disable**

Color Configuration for Normal and Inverted



228831

Normal/Inverted Micro QR enable



228830

***Normal Micro QR enable**

41. GM

Enable/Disable Reading



495231

Enable



495230

***Off**

42. Hong Kong 2 of 5 (China Post)

Enable/Disable Reading



225831

Enable



225830

***Disable**

Notice: When reading a postal, all other postals need to be closed.

Barcode Length Settings

You can configure the scanner to read only China Post barcodes with lengths (inclusive) between the minimum and maximum lengths. The maximum length limit is 4-80 characters. If the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported

Minimum length setting 7362Ax (X represents the length of the barcode)

Maximum length setting 7372Ax (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add "^3" character before the data, for example: minimum length setting ^37362Ax (X represents the length of the barcode),

Example: minimum read length 6 characters, maximum read length 9 characters;



7362A6

Minimum 6 characters

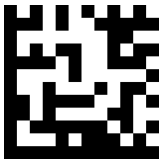


7372A9

Maximum 9 characters

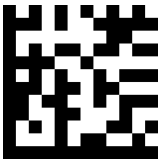
43. Korea Post

Enable/Disable Reading



64A231

Enable



64A230

***Off**

44. GS1-AI

GS1-AI currently supports 4 symbologies, GS1-128, GS1-DataBar, GS1-QR, GS1-DM, default is off;



52B2A0

***Off**



52B2A1

Only enable GS1-128



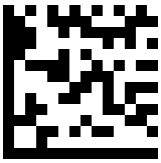
52B2A2

Only enable GS1-DATABAR



52B2A4

Only enable GS1-QR



52B2A8

Only enable GS1-DM



52B2A15

All enabled

GS1-AI Brackets

By changing the configuration, you can choose whether to output GS1 barcode parentheses and the characters inside the parentheses. It takes effect when GS1-AI is enabled.



528530

***Reserved**

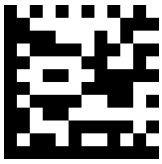


528531

Do not output

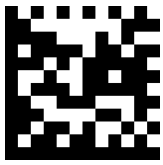
GS1-AI Forced Conversion

Support non-GS1 standard QR codes, DM codes are forcibly converted to GS1 type, output parentheses.



5722A0

***Off**



5722A4

Forced QR conversion



5722A8

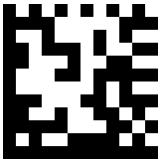
Forced DM conversion

45. 2D Postal



7582A0

***Off**



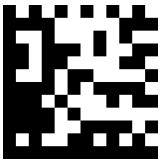
7582A1

Australia Postal



7582A2

Royal INFOMAIL



7582A3

Japan Postal



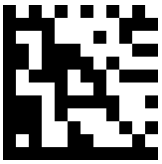
7582A4

KIX Code



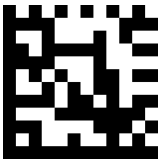
7582A5

PLANETCODE



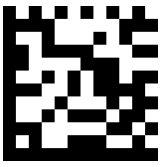
7582A6

POSTNET



7582A7

Britain Postal



7582A8

UPU



7582A10

USPS 4STATE

46. OCR

Currently only supports OCR-A and OCR-B

Enable/Disable Reading



649931

Enable



649930

***Off**

OCR Template

OCR template configuration function modification

Select QR code, use two characters to represent one digit, still only supports up to 19-digit configuration content

Template description:

The first digit is the OCR type:

01.OCR-A

02.OCR-B

The following eighteen digits are the template:

02.Line break

05.Number

06.Letter

07.Letter/Number

08.Any character

14.Fixed length (followed by a parameter indicating the length)

Example:

1. Scan ID Card

^3^399999502071418

2. Scan Two Lines of 44-Digit Passport

^3^3999995020814440208144 4

Analysis:

02	08	14	44	02	08	14	44
OCR-B	Any character	Fixed length	Length	Line break		Any character	Fixed length
Length							

3. Scan Three Lines of 30-Digit Passport

^3^399999502081430020814300208143 0

VI. Special Function Configuration (Examples)

Programming mode allows users to edit the prefix/suffix of the output themselves. Prefix adds CODE ID, AIM ID and special character output, etc. Users need to first scan the configuration to enter programming mode, and then follow the configuration barcode process to configure the scanner. Two examples of programming mode configuration will be attached for user reference,AddPrefix/Suffix. (Maximum support for prefix and suffix respectively)

This chapter lists some configuration examples for device usage, specifically explaining the configuration methods of special functions, to facilitate users' practical operations and become familiar with the product usage. You just need to scan the corresponding configuration code in sequence according to the requirements to complete the special function configuration.

Add Prefix/Suffix (Maximum of 10 Characters Each)

Add prefix process:

Example 1, add a byte prefix, the character is "(", the corresponding ASCII code decimal number is 040.

1. Scan the "Enter/Exit Programming Mode" configuration code to start the configuration.
2. Scan the "Configure Prefix First Byte".
3. Scan the byte code values "0", "4", "0" in sequence.
4. Scan the "Enter/Exit Programming Mode" configuration code to save.

Add suffix process:

Example 2, add a byte suffix, the character is ")", the corresponding ASCII code decimal number is 041.

1. Scan the "Enter/Exit Programming Mode" configuration code to start the configuration.
2. Scan the "Configure Suffix First Byte".
3. Scan the byte code values "0", "4", "1" in sequence.
4. Scan the "Enter/Exit Programming Mode" configuration code to save.

Add multiple bytes prefix:

例3， Add multiple bytes prefix

1. Scan the "Enter/Exit Programming Mode" configuration code to start the configuration.
2. Scan the "Configure Prefix First Byte".
3. Scan the first byte code value in sequence.
4. Scan the "Configure Prefix Second Byte".
5. Scan the second byte code value in sequence.
6. Repeat steps 4 and 5...
7. Scan the "Enter/Exit Programming Mode" configuration code to save.

Add multiple bytes suffix:

Similar to adding multiple prefixes.

Clear all prefixes:

Scan the "Clear All Prefixes" barcode.

Clear all suffixes:

Scan the "Clear All Prefixes" barcode.



RBBBBBB
Enter/Exit Programming Mode

Add Prefix

Configuration Prefix First Byte



2572B0

Configuration Prefix Second Byte



2582B0

Configuration Prefix Third Byte



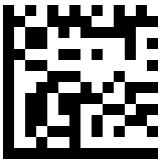
2592B0

Configuration Prefix Fourth Byte



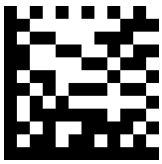
25A2B0

Configuration Prefix Fifth Byte



25B2B0

Configuration Prefix Sixth Byte



2622B0

Configuration Prefix Seventh Byte



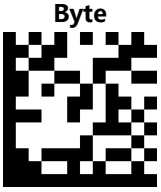
2632B0

Configuration Prefix Eighth Byte



2642B0

Configuration Prefix Ninth Byte



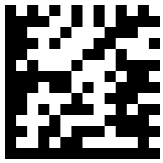
2652B0

Configuration Prefix Tenth Byte



2662B0

Clear All Prefixes



RBBBBA7

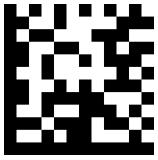


RBBBBBB

Enter/Exit Programming Mode

Add Suffix

Configuration Suffix First Byte



2672B0

Configuration Suffix Second Byte



2682B0

Configuration Suffix Third Byte



2692B0

Configuration Suffix Fourth Byte



26A2B0

Configuration Suffix Fifth Byte



26B2B0

Configuration Suffix Sixth Byte



2722B0

Configuration Suffix Seventh Byte



2732B0

Configuration Suffix Eighth Byte



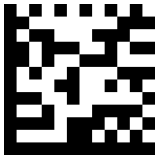
2742B0

Configuration Suffix Ninth Byte



2752B0

Configuration Suffix Tenth Byte



2762B0

Clear All Suffixes



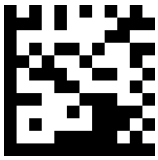
RBBBBA6

Code ID



64A631

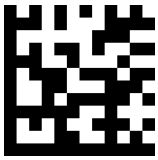
Enable



64A630

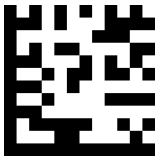
***Off**

AIM ID



64A731

Enable

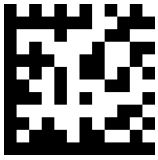


64A730

***Off**

Invisible Character Output

It is recommended to use serial port mode when transmitting invisible characters. Some special characters may not be transmitted via USB HID, which may affect normal use.



642931

Enable



642930

***Off**

GS Control Character Conversion

Note: The GS character in the ASCII table means "Group Separator". To transmit the GS character, the barcode data must include the GS character.



685631

Enable



685630

***Off**



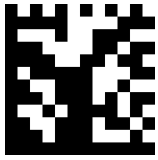
685260

***Do not transmit GS character**



685269

Transmit GS character



685265

Transmit <GS> character



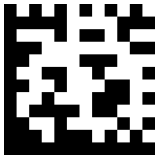
685266

Transmit (GS) character



685267

Transmit 'GS' character



685268

Transmit `GS` character



685261

Transmit | character

Target Test Code



Example: In the factory default state, the data transmitted by reading the test code is: 12345678ABCDEFGH; when the "Transmit (GS) character" is set, the transmitted data is: 12345678(GS)ABCDEFGH; to cancel the transmission of the GS character, please read the "Do not transmit GS character" setting code.

Send with Ctrl+X Mode

After enabling this function, ASCII control characters become output Ctrl key combinations.



67B331

Enable Ctrl+X Mode

Transmission



67B330

***Disable Ctrl+X Mode**

Control Character Mapping Table

Non-printable ASCII control characters			Keyboard Control + ASCII (CTRL+X) Mode		
			Control + X Mode Off	Windows Mode Control + X Mode On	
DEC	HEX	Char		CTRL + X	CTRL + X function
0	00	NUL	NULL	CTRL+ @	
1	01	SOH	NP Enter	CTRL+ A	Select all
2	02	STX	Caps Lock	CTRL+ B	Bold
3	03	ETX	Right Arrow	CTRL+ C	Copy
4	04	EOT	Up Arrow	CTRL+ D	Bookmark
5	05	ENQ	NULL	CTRL+ E	Center
6	06	ACK	NULL	CTRL+ F	Find
7	07	BEL	Enter	CTRL+ G	
8	08	BS	Left Arrow	CTRL+ H	History
9	09	HT	Tab	CTRL+ I	Italic
10	0A	LF	Down Arrow	CTRL+ J	Justify
11	0B	VT	Tab	CTRL+ K	hyperlink

12	0C	FF	Backspace	CTRL+ L	list, left align
13	0D	CR	Enter / Ret	CTRL+ M	
14	0E	SO	Insert	CTRL+ N	New
15	0F	SI	ESC	CTRL+ O	Open
16	10	DLE	F11	CTRL+ P	Print
17	11	DC1	Home	CTRL+ Q	Quit
18	12	DC2	PrtScn	CTRL+ R	
19	13	DC3	Delete	CTRL+ S	Save
20	14	DC4	Tab+shift	CTRL+ T	
21	15	NAK	F12	CTRL+ U	
22	16	SYN	F1	CTRL+ V	Paste
23	17	ETB	F2	CTRL+ W	
24	18	CAN	F3	CTRL+ X	
25	19	EM	F4	CTRL+ Y	
26	1A	SUB	F5	CTRL+ Z	
27	1B	ESC	F6	CTRL+ [	
28	1C	FS	F7	CTRL+ \	
29	1D	GS	F8	CTRL+]	
30	1E	RS	F9	CTRL+ ^	
31	1F	US	F10	CTRL+ -	

For example: Enter key, the default factory setting is Control+x Mode Off transmission. When the Enter key is pressed on the keyboard, in Control + X Mode On mode, it is CTRL+G that is pressed.

ALT+Numeric Keypad Transmission

After enabling this function, it becomes ALT+numeric keypad combinations output. For basic ASCII characters (0~127), four output combinations can be achieved through two switches.

Control Characters ASCII (0~31)



626531

Enable ALT+Numeric Keypad Transmission



626530

***Disable ALT+Numeric Keypad Transmission**

Standard Characters ASCII (32~127)



626231

Enable ALT + Numeric Keypad Transmission

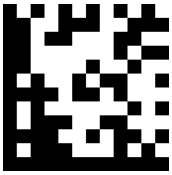


626230

***Disable ALT+Numeric Keypad Transmission**

Send Decoding Failure Information

After enabling this function, output NO READ if decoding fails



428931

Turn on



428930

***Off**

VII. Data Format

You can use the "Data Format Editor" to change the scanner's output.
For example, you can use the data format editor to move, search, insert, delete, replace, and select output characters at specific positions when scanning barcode data.

The following page selections are only used when output needs to be changed. The default data format settings are not enabled.

When creating a format, you must use the "Add Format Step" for configuration.



RBBBBBB

Enter/Exit Programming Mode

Data Editing Enable



7BB231

***On**



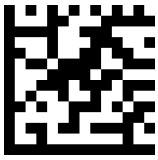
7BB230

Off

Switch Format

You can edit 4 sets of settings, switching formats (0, 1, 2, 3) corresponding to the following configuration code Format ID switch. The same format ID will replace the previous editing settings.

Format ID



7BB340

0



7BB341

1



7BB342

2



7BB343

3

Add Format Steps

Batch Command

QR code, the header with ^3^3999992 represents the batch processing command header, followed by the format ID, code ID, number of digits, and command.

Example: Insert two carriage returns before the QR code format AB

Sample code:



12345678ABCD123456

Batch processing configuration code:



^3^39999920739999B3024142C1020DA1

Format Command

(The maximum length of the format command is 96 characters; the length of the string to be searched and inserted must comply with the limit)

Insert

C1nnxx Insert n identical characters after the cursor; for example, C10241 inserts two 'A's.

C2nnxxxx Insert a string of length n after the cursor; for example, C2024142 inserts 'AB'.

Replace Character

E4nnxxxx Replace specified characters;

for example, E402300D

'02' has a total of two characters; '30' is the ASCII code for '0', '0D' is the ASCII code for 'carriage return'; replace '0' with 'carriage return'.

for example, E40430413142

'04' has a total of four characters; '30' is the ASCII code for '0', '41' is the ASCII code for 'A', replace '0' with 'A'; '31' is the ASCII code for '1', '42' is the ASCII code for 'B', replace '1' with 'B';

Replace String

E1mmXXXX...nnYYYY...

where mm represents the length of the string to be replaced, XXXX.... represents the string to be replaced; nn represents the length of the replacement string, YYYY..... represents the replacement string

Example: Replace the invisible GS character with the visible <GS>

Configuration code is ^3^39999920999999E1011D043C47533E

Select Output

F4nnxxxx Select characters up to the one before 'xxxx', where 'xxxx' has n characters;

Example: Output characters before the specified character AB ^3^39999920999999F4024142

F5nnxxxx Only output barcode data starting with the specified string; if a barcode does not start with the specified string, it will not be output and an error tone will be issued

Example: Only output barcodes starting with 'TX' ^3^39999920999999F5025458

F6nnxxxx Do not output barcodes starting with the specified string and issue an error tone, other barcodes are output normally

Example: Do not output barcodes starting with 'TX' ^3^39999920999999F6025458

F9NNnnxxxxnnxxxx Only output barcode content starting with multiple specified strings, up to 9 can be configured, where NN represents the number of strings (NN<10), nn represents the string length, xxxx represents the string content.

Example: Only output barcodes starting with 'AB' or 'CD', ^3^39999920999999F902024142024344

Code ID

Code	HHPID	ID
ALL		99
Airline 2 of 5	f	51
Aztec Code	z	7A
Codabar	a	61
Codablock A	V	56
Codablock F	q	71
Code 128	j	6A
Code 11	h	68
Code32	<	3C
Code 39	b	62
Code 93	i	69
Data Matrix	w	77
EAN-8	D	44
EAN-13	d	64
UPC-A	c	63
UPC-E	E	45
GS1 DataBar Expanded	}	7D
GS1 DataBar Limited	{	7B
GS1 DataBar	y	79
HANXIN	H	48
HongKong2of5(China post)	Q	51
Interleaved 2 of 5	e	65
Matrix 2 of 5	m	6D
Maxicode	x	78
MSI	g	67
PDF417	r	72
MicroPDF417	R	52
QR Code	s	73
Micro QR Code	-	2D
Straight 2 of 5 Industrial	f	66
Telepen	t	74
Trioptic Code		
GM	X	58
Dotcode	.	2E
Korea Post Code		
OCR		

VIII. Batch Processing Settings

Introduction

When multiple settings are required for the recognition device, it may be cumbersome to set them individually. At this time, we can store all the information that needs to be set into a barcode. After the device reads this barcode, it can complete multiple settings.

The following are batch processing setup guidelines:

1. The format of each command in a batch file is command + parameters.
2. Commands are terminated with a semicolon; note that there should be no spaces between commands.
3. Generate a QR code using this command in the encoding software.

QR code, the header includes ^3^3999991xxxxxx;xxxxxx; which represents the menu batch command header; batch commands are separated by semicolons and end with a semicolon.

Note: The command must be a regular instruction that does not start with P.

For example: Turn off the aiming light (command: 722330), sensing mode (command: 3A5668), cancel carriage return (command: 388530), then the batch command content is as follows:

^3^3999991722330;3A5668;388530;

Batch Processing Settings Steps

Scan the batch processing configuration code



^3^3999991722330;3A5668;388530;

Appendix

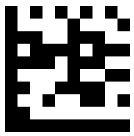
Byte Code Values (Hexadecimal)



0



1



2



3



4



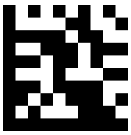
5



6



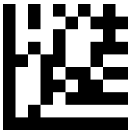
7



8



9



A



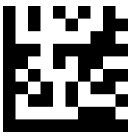
B



C



D



E



F

Appendix: Code ID table

Barcode	Code ID
Code128	j
GS1-128	I
CODE39	b
EAN8	D
EAN13	d
UPC-E	E
UPC-A	c
interleaved 2 of 5	e
Codabar	a
RSS-Expanded	}
QR Code	s
PDF417	r
Data Matrix	w
Aztec Code	z
Maxicode	x
Han Xin Code	H
KIX Post	K
matrix 2 of 5	m
industrial 2 of5	f
IATA 2 OF 5	f
CHINESE POST 2 OF 5	Q
code 11	h
MSI	g
Code93	i
RSS-14	y
RSS-Limited	{
GM Code	X
Micro PDF 417	R
Micro QR	s
USPS Postnet	P
USPS Intelligent Mail	Not read
Royal Mail	
USPS Planet	L
Australian Postal	A

Appendix: AIM ID Table

Barcode type	AIM ID	Possible AIM ID limiting parameters (m)
Code128	]C0	
GS1-128 (UCC/EAN-128)	]C1	
EAN-8	]E4	
EAN-8 with Addon	]E3	
EAN-13	]E0	
EAN-13 with Addon	]E3	
UPC-E	]E0	
UPC-E with Addon	]E3	
UPC-A	]E0	
UPC-A with Addon	]E3	
Interleaved 2 of 5	]Im	0, 1, 3
ITF-14	]Im	1, 3
ITF-6	]Im	1, 3
Matrix 2 of 5	]X0	
Code 39	]Am	0, 1, 3, 4, 5, 7
Codabar	]Fm	0, 2, 4
Code 93	]G0	
ISSN	]X0	
ISBN	]X0	
Industrial 25	]S0	
Standard 25	]R0	0, 8, 9
COOP 25	]X0	
Deutsche 12	]X0	
Deutsche 14	]X0	
AIM 128	]C2	
ISBT 128	]C4	
Plessey	]P0	
Code 11	]Hm	0, 1, 3
MSI Plessey	]Mm--]M5	0, 1, 7, 8, 9
GS1 Databar (RSS)	]e0	
PDF417	]Lm	0-2
QR Code	]Qm	0-6
Aztec	]zm	0-9, A-C
Data Matrix	]dm	0-6
Maxicode	]Um--]X0	0-3
Han Xin Code (Chinese Sensible Code)	]X0	
GM Code	]gm--]X0	0-9
Code One	]X0	

Micro PDF417	]L0	
Micro QR	]Q1	
USPS Postnet	]X0	
USPS Inteligent Mail	]X0	
Royal Mail	]X0	
USPS Planet	]X0	
KIX Post	]X0	
Australian Postal	]X0	
Specific OCR-B	]o2	
Passport OCR	]o2	

Appendix: ASCII Code Table

Decimal number	Character	Decimal number	Character	Decimal number	Character	Decimal number	Character
000	NUL	032	SP	064	@	096	'
001	SOH	033	!	065	A	097	a
002	STX	034	"	066	B	098	b
003	ETX	035	#	067	C	099	c
004	EOT	036	$	068	D	100	d
005	ENQ	037	%	069	E	101	e
006	ACK	038	&	070	F	102	f
007	BEL	039	`	071	G	103	g
008	BS	040	(	072	H	104	h
009	HT	041	)	073	I	105	i
010	LF	042	*	074	J	106	j
011	VT	043	+	075	K	107	k
012	FF	044	,	076	L	108	l
013	CR	045	-	077	M	109	m
014	SOH	046	.	078	N	110	n
015	SI	047	/	079	O	111	o
016	DLE	048	0	080	P	112	p
017	DC1	049	1	081	Q	113	q
018	DC2	050	2	082	R	114	r
019	DC3	051	3	083	S	115	s
020	DC4	052	4	084	T	116	t
021	NAK	053	5	085	U	117	u
022	SYN	054	6	086	V	118	v
023	ETB	055	7	087	W	119	w
024	CAN	056	8	088	X	120	x
025	EM	057	9	089	Y	121	y
026	SUB	058	:	090	Z	122	z
027	ESC	059	;	091	[	123	{
028	FS	060	<	092	\	124	|
029	GS	061	=	093	]	125	}
030	RS	062	>	094	^	126	~
031	US	063	?	095	_	127	DEL

ASCII Extended Characters (CP-1252 Encoding)

Decimal number	Character	Decimal number	Character	Decimal number	Character	Decimal number	Character
128	€	160		192	À	224	à
129		161	¡	193	Á	225	á
130	‚	162	¢	194	Â	226	â
131	ƒ	163	£	195	Ã	227	ã
132	„	164	¤	196	Ä	228	ä
133	…	165	¥	197	Å	229	å
134	†	166	¦	198	Æ	230	æ
135	‡	167	§	199	Ç	231	ç
136	ˆ	168	¨	200	È	232	è
137	‰	169	©	201	É	233	é
138	Š	170	ª	202	Ê	234	ê
139	‹	171	«	203	Ë	235	ë
140	Œ	172	¬	204	Ì	236	ì
141		173		205	Í	237	í
142	Ž	174	®	206	Î	238	î
143		175	¯	207	Ï	239	ï
144		176	°	208	Ð	240	ð
145	‘	177	±	209	Ñ	241	ñ
146	’	178	²	210	Ò	242	ò
147	“	179	³	211	Ó	243	ó
148	”	180	´	212	Ô	244	ô
149	·	181	µ	213	Õ	245	õ
150	–	182	¶	214	Ö	246	ö
151	—	183	·	215	×	247	÷
152	˜	184	¸	216	Ø	248	ø
153	™	185	¹	217	Ù	249	ù
154	š	186	º	218	Ú	250	ú
155	›	187	»	219	Û	251	û
156	œ	188	¼	220	Ü	252	ü
157		189	½	221	Ý	253	ý
158	ž	190	¾	222	Þ	254	þ
159	Ÿ	191	¿	223	ß	255	ÿ