



GM69Pro Bar Code Reader Module

User Manual



Hangzhou Grow Technology Co., Ltd.
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Revised Version

Version Number	Date	Revise Content	Modifier
V1.1	2025.05	Set up	Grow Tech
V1.1.1	2025.11	Delete 6.2.4 Whether the Lighting is Flash After Decoding Successful	Grow Tech

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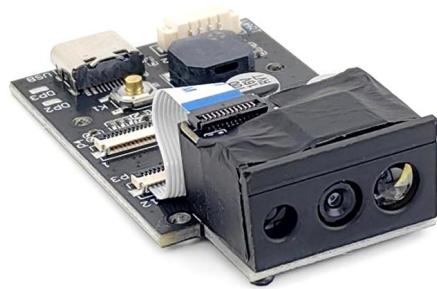
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1 Introduction of Module

1.1 Introduction

GM69Pro is a high-performance embedded 2D image module, using advanced CMOS image recognition technology, intelligent image recognition system, equipped with 1 million pixel global camera, with excellent reading performance, can easily read the bar code on paper, goods, screens and other media. According to different size bar codes, the reading distance can reach more than 2.5 meters; Through the OCR function Settings, you can read the Chinese ID number and passport number. The all-in-one compact design allows easy insertion into a wide range of devices.

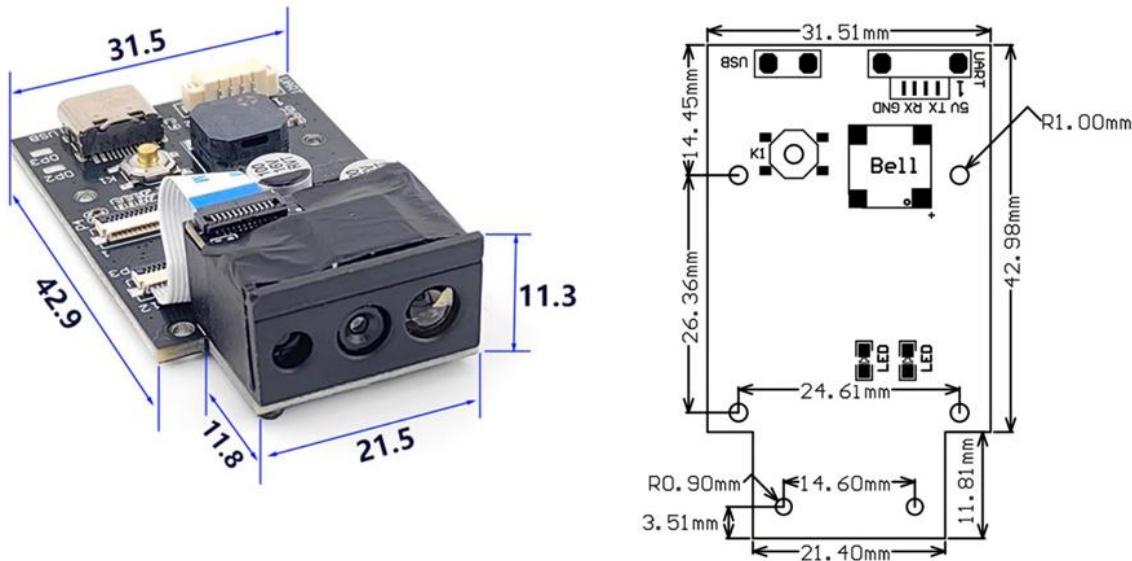


1.2 Technical Specification

Scanning Performance	Interface		USB(USB-KBW,USB-COM,HID-POS),TTL-232
	Image sensor		CMOS, Global
	Pixel		1 million pixel
	Resolution		≥3mil/0.076mm (PCS90%,CODE 39)
	Read Mode		Manual Mode,Induction Mode,Continuous Mode
	Prompting mode		LED, Buzzer
	Read Code Type	2D	QR code,Micro QR,Data Matrix,PDF417,Micro PDF417 Maxi Code,Aztec Code,Hanxin Code,Pharma Code,Codablock A Code,Codablock F Code,Code16K, Code49,Dot Code,Grid Matrix,Australian Post,British Post,USPS Intelligent Mail,Japanese Post,Planet Code,Postnet Code,UPU 4-State,KIX Code,etc.
		1D	UPC-A,UPC-E0,UPC-E1,EAN-8,EAN-13,ISBN,ISSN, Code 128,GS1 128,ISBT 128,Code 39,Code 32 Pharmaceutical,Code 93,Code11,Codabar,Interleaved 2 of 5,Matrix 2 of 5,Industrial 2 of 5,Standard 2 of 5, NEC 2 of 5,MSI Plessey,UK Plessey,Posi Code,Telepen Trioptic,BC412,Febraban,Coupon,HongKong 2 of 5(China Post),Korea Post,GS1 DataBar 14 (RSS-14) GS1 Databar Limited,GS1 Databar Expanded GS1 Composite Code,TLC 39 Code,OCR
	Depth of Field		40mm~900mm (different bar code range)

	Decode speed	65CM/S
	Contrast	≥20%
	Scanning angle	Test Conditions: CODE39,10mil/0.25mm,PCS90% Roll: ±360°, Pitch:±60°, Skew: ±55°
	Viewing Angle	H:42° V:27° opposite angles: 49°
Mechanical/ Electrical Parameters	Weight	11.8g
	Dimension	54.8mm L * 31.5mm W * 13.5mm H
	Operating Voltage	DC 5V
	Current	200mA(Average Work), 95mA(Standby), 38mA(Sleep)
Environmental Parameters	Operating Temperature	-20°C~+50°C
	Storage Temperature	-40°C~+60°C
	Operating Humidity	5%~95% (Non-Condensing)
	Environmental Light	0~100000LUX

1.3 Dimension (mm)

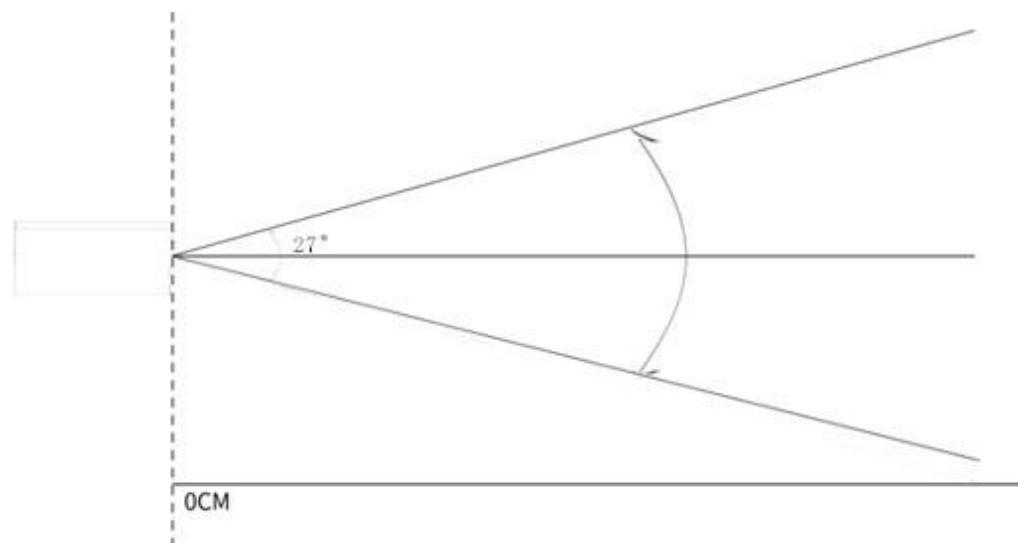
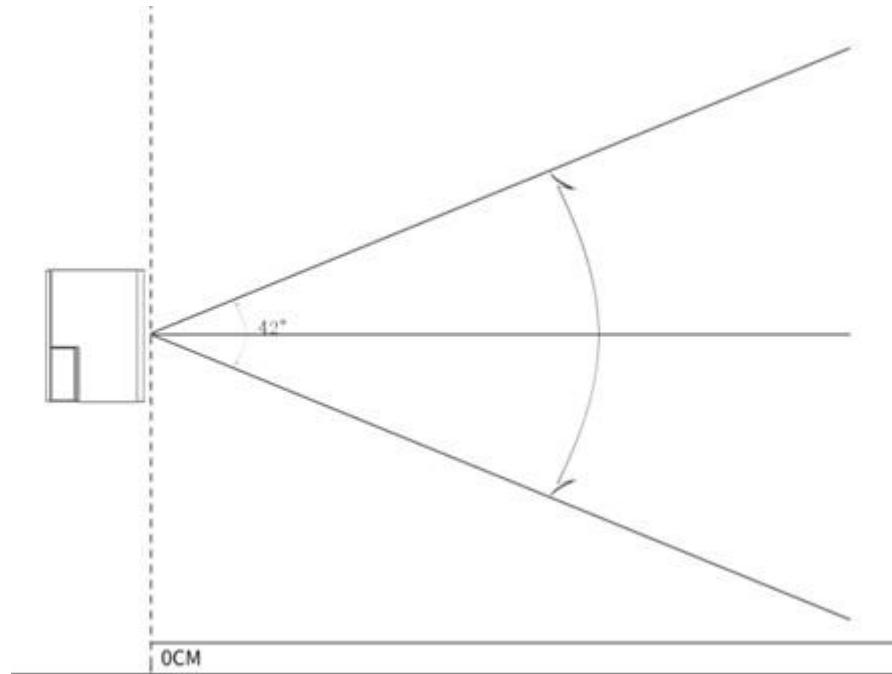


1.4 Circuit Board Communication Interface

UART Communication interface definition: MX1.25 4pin

Pin	Name	Definition	Description
1	5V	Power Input	Power input 5V
2	TX	Out	Data output. TTL logical level
3	RX	In	Data input. TTL logical level
4	GND	-	Signal ground

1.5 Scanning Area Map



Type of Bar Code	Density	Min. distance	Max. distance
Code 39	0.075mm(3mil)	75mm	160mm
Code 39	0.25mm(10mil)	40mm	360mm
Code 39	1mm(40mil)	140mm	810mm
UPC/EAN	0.33mm(13mil)	50mm	380mm
QR Code	20mil	80mm	350mm
Data Matrix	10mil	70mm	120mm
PDF417	6.8mil	50mm	250mm
Wechat Payment code	6 "screen (not enlarged)	90mm	800mm
Alipay Payment code	6 "screen (not enlarged)	90mm	900mm

1.6 Readable Barcode Type

Type	Readable	Default
UPC-A	✓	✓
UPC-E0	✓	✓
UPC-E1	✓	✗
EAN-8	✓	✓
EAN-13	✓	✓
ISBN	✓	✗
ISSN	✓	✗
Code 128	✓	✓
GS1 128	✓	✓
ISBT 128	✓	✗
Code 39	✓	✓
Code 32 Pharmaceutical	✓	✗
Code 93	✓	✓
Code11	✓	✗
Codabar	✓	✓
Interleaved 2 of 5	✓	✓
Matrix 2 of 5	✓	✓
Industrial 2 of 5	✓	✓
Standard 2 of 5	✓	✗
NEC 2 of 5	✓	✗
MSI Plessey	✓	✗
UK Plessey	✓	✗
Posi Code	✓	✗
Telepen	✓	✗

Trioptic	✓	✗
BC412	✓	✗
Febraban	✓	✗
Coupon	✓	✗
QR code	✓	✓
Micro QR	✓	✓
Data Matrix	✓	✓
PDF417	✓	✓
Micro PDF417	✓	✗
Maxi Code	✓	✗
AztecCode	✓	✗
Hanxin	✓	✗
Pharma	✓	✗
Codablock A	✓	✗
Codablock F	✓	✗
Code16K	✓	✗
Code49	✓	✗
Dot Code	✓	✗
Grid Matrix	✓	✗
GS1 DataBar 14 (RSS-14)	✓	✓
GS1 Databar Limited	✓	✓
GS1 Databar Expanded	✓	✓
GS1 Composite Code	✓	✗
TLC 39 Code	✓	✗
OCR	✓	✗
HongKong 2 of 5(China Post)	✓	✗
Korea Post	✓	✗

Australian Post	✓	✗
British Post	✓	✗
USPS Intelligent Mail	✓	✗
Japanese Post	✓	✗
Planet Code	✓	✗
Postnet Code	✓	✗
UPU 4-State	✓	✗
KIX Code	✓	✗

2 Factory Mode Information

2.1 Factory Default Configuration



BeQeCe

Factory default setting

2.2 User Default Settings

In addition to factory settings, users also can save their frequently used configurations as default Settings. By scanning Save "Current Settings as User Default Settings", users can save the current device configurations as default settings. If the module already has default user settings, the new configuration replaces the original default user settings.

By scanning "Restore the user default settings", the module can be switched to user default settings.



UaQdWa

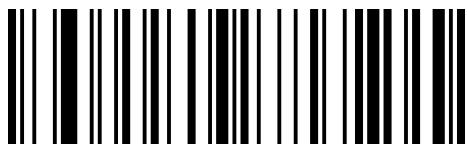
Save Current Settings as User Default Settings



BeQeEe

Restore the User Default Settings

2.3 Read Version Information



BeReCd

Read Version Information

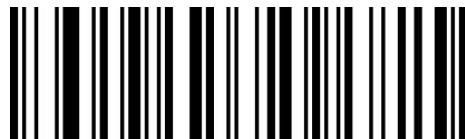
2.4 Setup Code

Customer can set module by scan setup code.



RaZdNa

***Setup code on**



RaZdXa

Setup code off

The setup code content can be sent.



WaZaBb

Send setup code content



WaZaRa

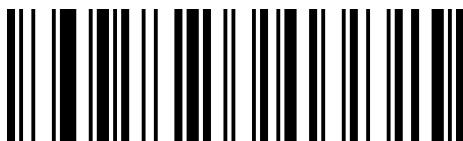
***Not Allow to send setup code content**

3 Communication Interface

3.1 Serial Port

It's default and common to connect module and mainframe(such as PC, POS) by serial communication interface. Make sure communication parameter for module and mainframe are same, then it will communicate smooth and correctly.

Serial port related configuration: Baud rate:9600, Data bit:8, Parity Bit: None, Stop bit:1



VbZcNc

TTL 232 Interface

3.1.1 Baud rate



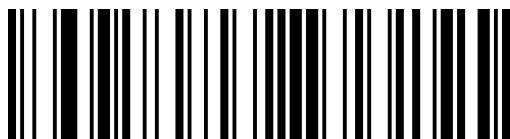
VbCdRdc

4800bps



VbCdSdc

***9600bps**



VbCdUdc

19200bps



VbCdVdc

38400bps



VbCdWdc

57600bps

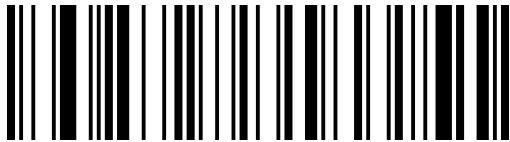


VbCdVac

115200bps

3.1.2 Serial Port Transmission Speed

You can set the serial port transmission speed by setting the inter-character delay.



JdGeKbc

Low Speed(25ms)



JdGeVac

Mid-Speed(10ms)



JdGeVa

***High Speed(1ms)**

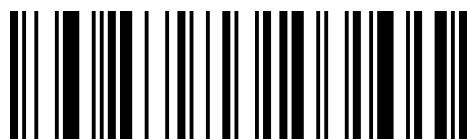
3.2 USB HID-KBW



VbZcWag

***USB-KBW Keyboard**

3.3 Keyboard Settlement



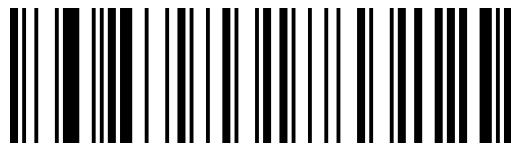
JdCcTc

***English**

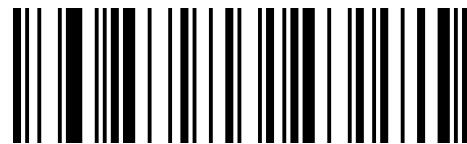


JdCcLbc

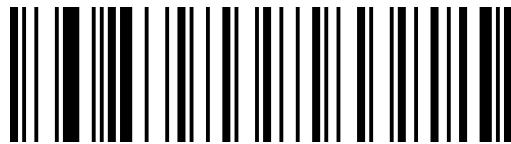
Greek



JdCcGbc

Netherlands(Dutch)

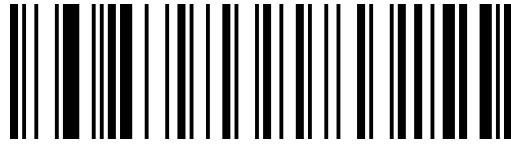
JdCcJc

Spain

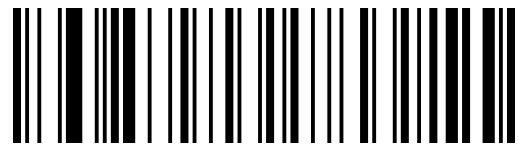
JdCcCbc

Switzerland

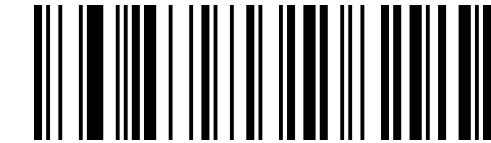
JdCcLa

Brazil

JdCcEbc

Denmark

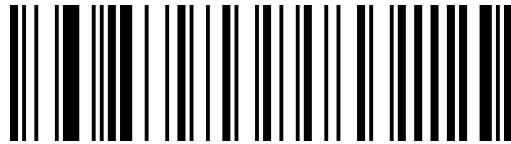
JdCcDbc

UK

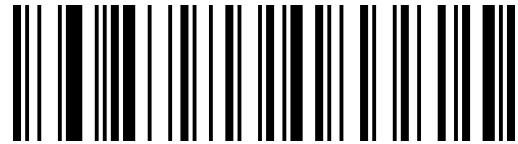
JdCcZb

Italy

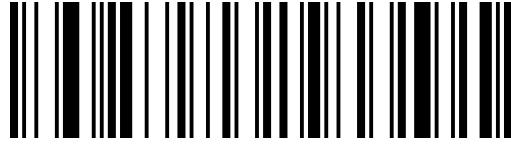
JdCcFb

France

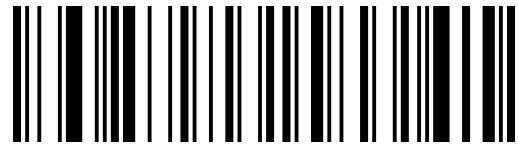
JdCcBbc

Germany

JdCcNbc

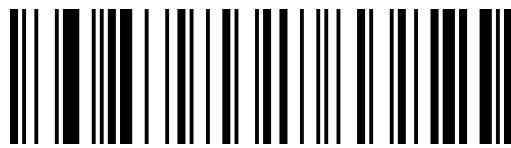
Hungary

JdCcRbc

Sweden

JdCcQbc

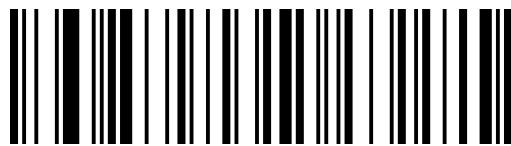
Slovakia



JdCclbc

Portuguese

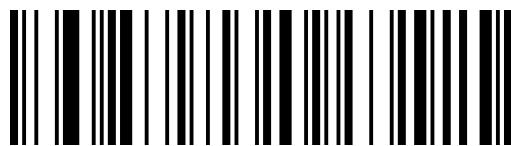
JdCcSbc

Romania

JdCcZac

Belgium

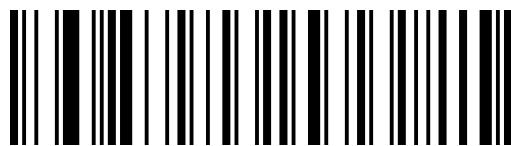
JdCcTbc

Turkey-F

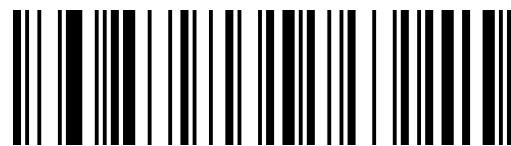
JdCcXac

Turkey-Q

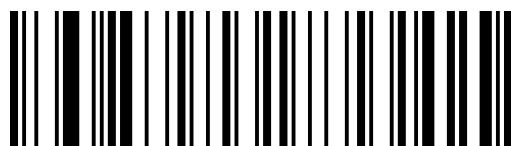
JdCcObc

Poland

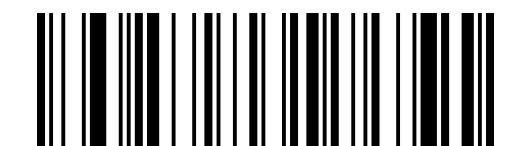
JdCcQdc

Russia-MS

JdCcVac

Japan

JdCcGdc

Ukrainia

JdCcVa

Arabic

JDCCNd

Thai

3.4 ASCII Function Key Output Settings

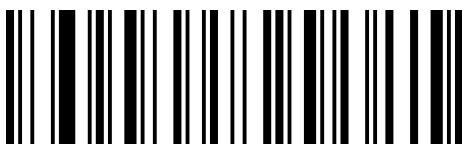
Control character (0x00-0x1F) output mode selection in ASCII code

Output function keys: control characters are used as custom function keys. See 10.5 Appendix 5 Control Character Table.

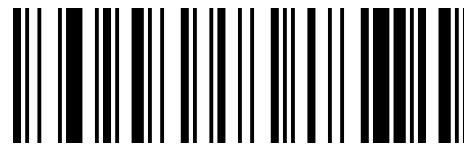
Output Ctrl combination key (this function is used with prefix and suffix) : Ctrl combination key output control characters, See 10.5 Appendix 5 Control Character Table.

ALT output control characters: full control character output is supported in Chinese environment, see 10.6 Appendix 6 ASCII.

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



QbBbQa



QbBbAb

*Output function keys



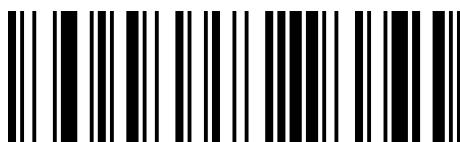
QbBbEc

Output Ctrl combination key 2



QbBbKb

ALT output control characters



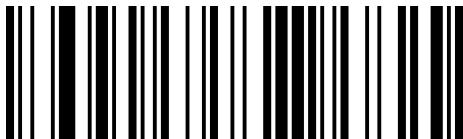
QbBbUb

Output Enter&DownArrow

3.5 Virtual Keyboard Output

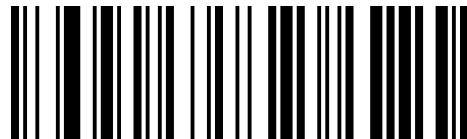
Control character (0x20-0xFF) output mode selection in ASCII code.

When the virtual keyboard is enabled, all characters between 0x20 and 0xFF are output using the virtual keyboard.



WaBbPa

***Close Virtual Keyboard**



WaBbZa

Open Virtual Keyboard

ALT mode is only valid for Ascii characters 1-32, while virtual keyboard is valid for characters 1-127.

3.6 Uppercase/Lowercase Conversion



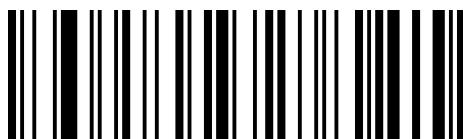
BbLdOa

***Normal**



BbLdYa

Upper



BbLdlb

Lower



BbLdSb

Inverse

3.7 USB Speed



OdJcVac



OdJcJc

Low Speed(10ms)*Mid Speed(5ms)**

OdJcVa

High Speed(1ms)

3.8 Caps Lock Setting



IbReQa

***Caps Lock Auto Close**

IbReAb

Caps Lock Auto Open

IbReKb

Caps Lock Keep

3.9 USB-COM Virtual Serial Port (CDC)



VbZcXag

USB-COM

3.10 USB HID-POS



VbZcYag

HID-POS

PID(HEX): 1001

VID(HEX): E851

3.11 HID-POS Protocol Message Format

	Bit								
Byte	7	6	5	4	3	2	1	0	
0	ID = 0x02								
1	Barcode data length								
2]								
3	AIM ID first character								
4	AIM ID second character								
5-60	Barcode data (1-56)								
61	Code ID								
62	Keep: 0x00								
63	-	-	-	-	-	-	-	-	0: data send out 1: still have data

4 Read Mode

4.1 Manual Mode

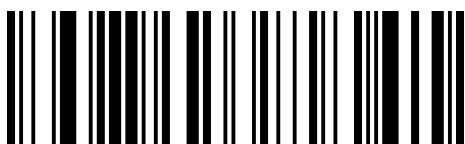


VbBeJb

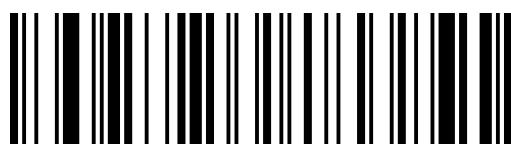
***Manual Mode**

4.1.1 Manual Mode-Button Timeout

Button timeout refers to the timeout period during which the button is pressed and not released. If the bar code is not read within the timeout period, the code reading stops and waits for the next trigger.



UaZcCb

Infinite

MdZcAbc

***3S**

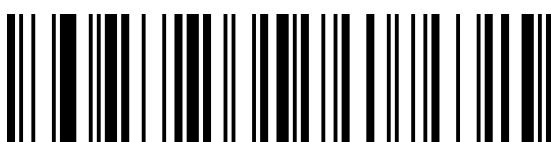
MdZcKbc

5S

MdZcJcc

10S

MdZcIdc

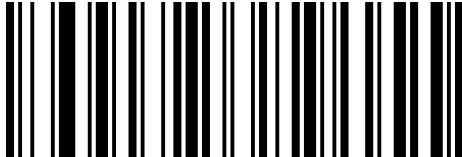
15S

MdZcVaHa

20S

4.1.2 Manual Mode-Custom Button Timeout

Default: 3S, step: 200ms, range: 0-50S.



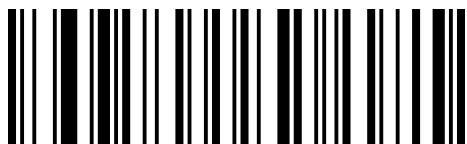
WdZcLa

~Custom Button Timeout

Reference: Appendix,10.3.1 Example - Custom Button Timeout

4.2 Continuous Mode

On this mode, reading module read code continuous and automatic. Read successfully or the reading time exceeds the single reading time, the reading will be finished, and automatically trigger the next reading.



VbBeZa

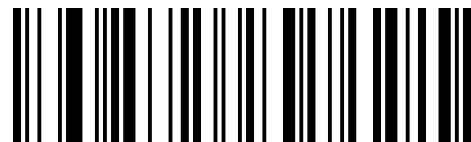
Continuous Mode

4.2.1 Continuous Mode-Same Code Reading Delay



JdHeLa

Same code without delay



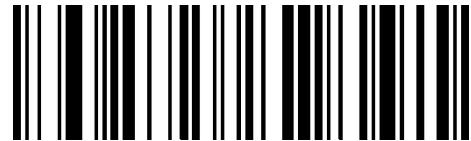
JdHeVa

Same code delay 100MS



JdHeFb

Same code delay 200MS



JdHePb

Same code delay 300MS



JdHeZb

*Same code delay 400MS



JdHeJc

Same code delay 500ms



JdHeNd

Same code delay 800MS



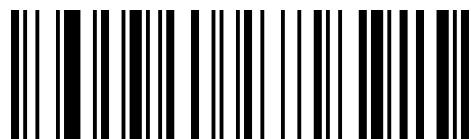
JdHeXac

Same code delay 1200MS



JdHeFbc

Same code delay 2000MS



RaHeCb

Same code without timeout

4.2.2 Continuous Mode-Different Code Reading Delay

Different code reading interval means that after reading a code, it refuses to read another different code within a set period of time. It can be read and output only after the time exceeds or the power is restarted. Default: 300MS, different code delays are valid for continuous mode and induction mode.



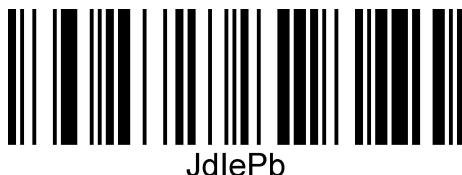
JidleLa

Different Code without Delay



JidleVa

Different Code Delay timeout 100MS



JidlePb

*Different Code Delay timeout 300MS



JidleJc

Different Code Delay timeout 500ms

JidleTc
Different Code Delay timeout 600MSJidleNd
Different Code Delay timeout 800MSJidleVac
Different Code Delay timeout 1000MSJidleFbc
Different Code Delay timeout 2000MSJidleJcc
Different Code Delay timeout 5000MS

4.3 Induction Mode

In automatic sensing mode, the reading engine detects the brightness of the surrounding environment. When the brightness changes, module will begin to read, read successfully or the reading time exceeds the single reading time, the reading will be finished. Regardless of the last read success or failure, the module will be redetects the brightness of the surrounding environment.

VbBePa
Induction Mode

4.3.1 Induction Mode-Image Stabilization Duration

In induction mode, when the scanner stops reading the code, it will enter a process of re-adapting to the change of the reading environment (image), and only after the image stability timeout will it enter the induction state and wait for the barcode to appear. The time to adapt to the environment can be adjusted by modifying the image stabilization timeout.



OdCbVa

100ms

OdCbFb

200ms

OdCbPb

300ms

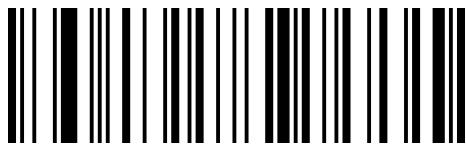
OdCbZb

400ms

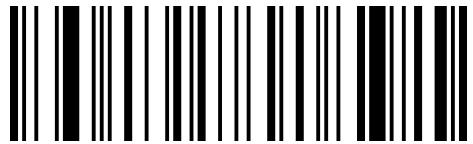
OdCbJc

***500ms**

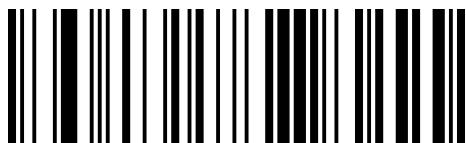
4.3.2 Induction Mode-Sensitivity



AcDbVa

***High Sensitivity**

AcDbFb

Middle Sensitivity

AcDbPb

Low Sensitivity

5 Lighting and Collimate

5.1 Lighting



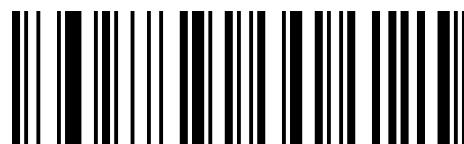
GbWaRb

***High lighting**

GbWaHb

Middle lighting

GbWaXa

Low lighting

GbWaNa

Close lighting

5.1.1 Lighting Status Setting

When the scanned object is near the bar code device, the brightness decreases; when the scanned object is far away from the bar code device, the brightness of the bar code device is increased. This state is change mode, and the default mode is this mode.



XaEeRa

***Change Mode**

XaEeBb

Keep On Mode

5.2 Collimation



GbWaZa

***Open**



GbWaPa

Close



GbWaJb

Always On



GbWaTb

Flash

6 Prompts

6.1 Prompts Tone Setting



WaZaCb

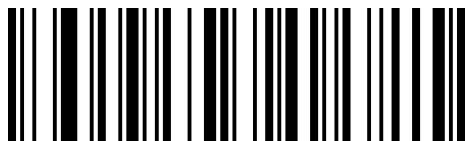
*Open all prompts tone



WaZaSa

Close all prompts tone

6.1.1 Starting Up Prompt



RaOdNa

*Starting Up Prompt ON



RaOdXa

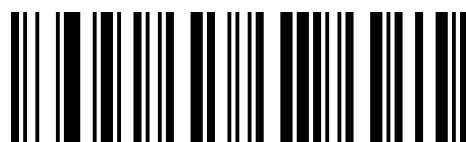
Starting Up Prompt OFF

6.1.2 Setup Code Prompt



WaZaZa

*Setup Code Prompt ON



WaZaPa

Setup Code Prompt OFF

6.1.3 Decoding Successful Prompt Tone



RaDeXa

*Decoding Successful Prompt Tone ON



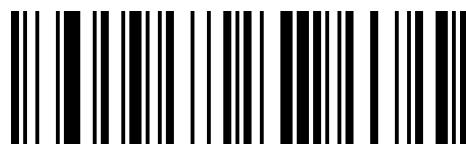
RaDeNa

Decoding Successful Prompt Tone OFF

6.1.4 Decoding Successful Prompt Tone Duration Time

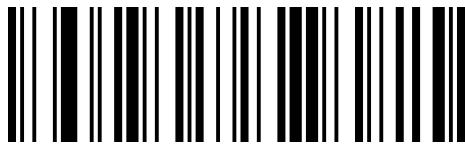


RaCeZa
Short



RaCePa
*Normal

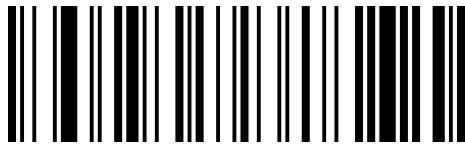
6.1.5 Decoding Successful Prompt Tone Frequency



LbDeUb
Frequency-1.6KHZ



LbDeEc
*Frequency-2.0KHZ

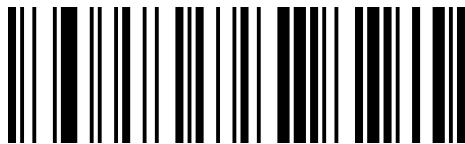


LbDeAb
Frequency-2.7KHZ

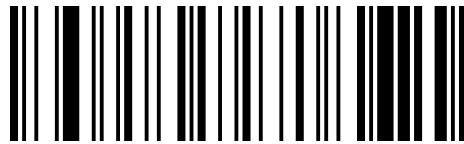


LbDeKb
Frequency-4.2KHZ

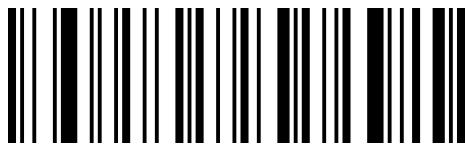
6.1.6 Decoding Successful Prompt Tone Volume



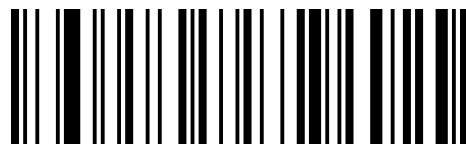
BbDePb
OFF



BbDeFb
Low

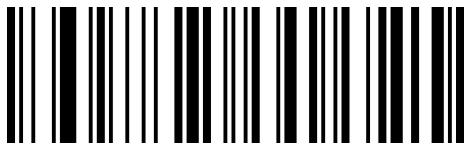


BbDeVa
Middle

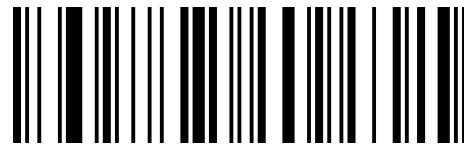


BbDeLa
*High

6.1.7 Error Alarm Tone



GbZaNa



GbZaXa

*Error Alarm Tone low frequency-2.5KHZ

Error Alarm Tone middle frequency-3.25KHZ



GbZaHb

Error Alarm Tone high frequency-4.2KHZ

6.2 Decoding Successful Prompt Light

6.2.1 Decoding Successful Prompt Light Setting



RaBeYa

*Turn On



RaBeOa

Turn Off

6.2.2 Prompt Light Duration Time

If the decoding indicator time length is not set, the indicating time length is the same as the buzzer time length (normal 90ms/ short 50ms). If the decoding indicator time length is set, the decoding indicator time length is the newly set value.



AeQeLa

~Prompt Light Duration Time



QdQe50

Fast set Prompt Light Duration Time to 500ms



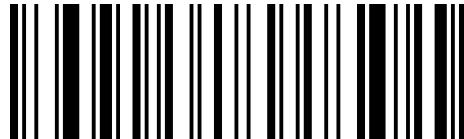
QdQe0

Clear the custom prompt light duration

6.2.3 Decoding Successful Prompt Light Working Mode



WaAbRa



WaAbBb

In standby mode-OFF,Working mode-ON*In standby mode-ON,Working mode-OFF**

6.3 Low Power Mode

Set whether to enable the low power mode. After the low power mode is enabled, the standby power consumption decreases significantly.

After the low-power mode is enabled, the system enters the low-power mode automatically after the low-power mode entry time (for example, 15 seconds) is passed.

The next time you press the trigger button, the low-power mode will automatically exit and enter the working mode. Then, after the low-power mode entry time (such as 15S), the low-power mode will automatically enter the low-power mode.

The low power mode is disabled by default. After the low power mode is enabled, it takes 15 seconds to enter the low power mode by default.

When using low power mode, first set the restore factory value, low power mode is valid in manual mode or command mode, not in continuous mode or induction mode.



WaQbWa



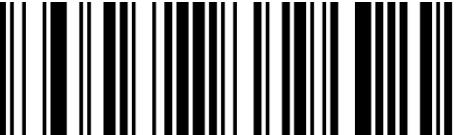
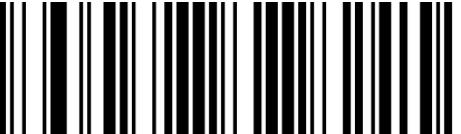
WaQbMa

Open low power mode*Close low power mode**

6.4 Data Format

6.4.1 Different Country Text Output(Input Format)

The default PC system language is CH, UTF8\GB2312 encoding.

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

PC system language is Russia KOI8-R		OdPbHbc
Russian Codepage CP1251		OdPbRbc
European single byte characters Western European character set		OdPbYac
European double-byte characters		OdPbNbc

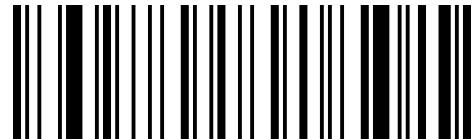
Note: When the PC system language is JP, the QR code is UTF-8/GB2312 encoding, because the JP system does not have a perfect Chinese encoding, some Chinese can not be completely displayed in the JP system.

6.4.2 Data Output Format



GbBbVa

*Codepage (Notepad, Excel)



GbBbFb

Unicode (WORD, QQ)



GbBbPb

UTF-8



GbBbLa

Original Data

6.4.3 Different Countries Languages in Different Operation Systems



GbAbNa

*Windows



GbAbXa

Linux1



GbAbHb

Linux2

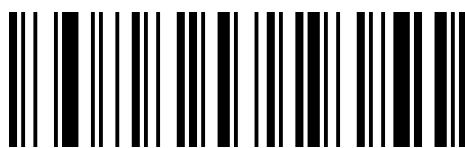
Linux1: redhat Linux,Ubuntu; Linux2: UOS;Kirin OS;Deepin OS。

6.5 Image Recognition Settings

6.5.1 Image Inverting (Inverting White) Settings



CbQdRa



CbQdLb

*Positive Image Recognition

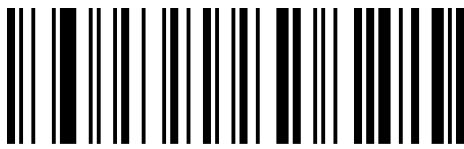


CbQdBb

Positive and inverted image recognition

Inverting image recognition

6.6 Mobile Phone Screen Code Optimization Settings



BcEeZb

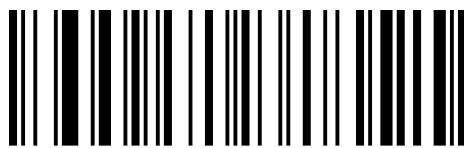


BcEeDd

*Normal brightness of mobile phone screen

Low brightness of mobile phone screen

6.7 Same Code Detection



XaFeAb

Same Code Detection ON



XaFeQa

*Same Code Detection OFF

1. After the same code detection is enabled, the first read non-configuration code is used as the comparison code for the same code detection.

If the non-configuration code is not the same as the comparison code, an error tone is played. If it is

the same code, read successfully.

2. The same code detection does not have power failure memory function. That is, after the code scanner is powered on, the same code detection function is always turned off.

3. After the same code detection is disabled, the comparison code will be cleared simultaneously. After the same code detection is enabled again, the first non-configuration code is used as the comparison code.

4. The code system and the content of the code must be completely consistent to be identified as the same code.

6.8 Decode Center Area Settings



ObCcLa



ObCcPb



ObCcZb

Center Mode Decoding

Full Width Area Decoding: The entire area of the captured image (the whole picture) is selected for decoding, and only the first barcode read is output.

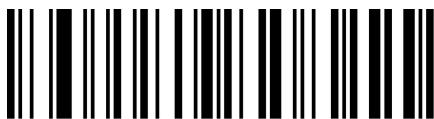
Central Area Decoding: When the reading area is the central area, the central position of the barcode must be in the central area set. Bar codes are not within the scope of the region are not identified and output.

The default center area is 60%, that is, 20% at the top, 80% at the bottom, 20% on the left, and 80% on the right.

Aiming barcode decoding: only scan the central aiming barcode code

Center Mode Decoding: Only the barcode aligned with the collimation light is read and decoded, because there is a certain distance between the collimation light and the shooting image, the actual decoding of the center of the image shooting shall prevail.

6.8.1 Decode Center Area Fast Settings



BeReTb

40% Center Area

BeReUb

50% Center Area

BeReVb

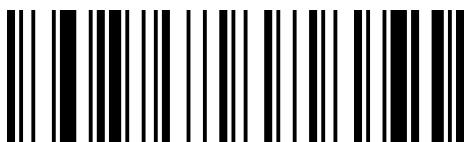
***60% Center Area**

BeReWb

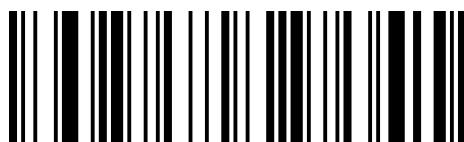
80% Center Area

6.9 Reading Code Failed Prompt

If the bar code is not READ after the key is pressed and released, NR (NO READ) messages are allowed to be sent. Any feasible prefix or suffix can be attached to the message.



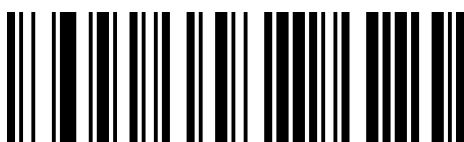
SaCbCb

Allow NR

SaCbSa

***Forbid NR**

6.10 QR URL Code Settings



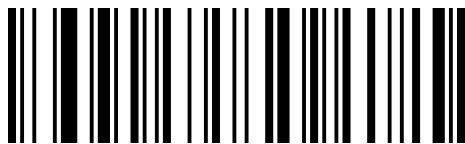
WaQbPa

***Allow QR URL Readable**

WaQbZa

Forbid QR URL Readable

6.11 Invoice Function



WaBbXa

Allow



WaBbNa

***Forbid**

7 Data Edition

Output sequence after data edition:

【Start Character】 【Prefix】 【AIM ID】 【Code ID】 【Data】 【Suffix】 【Tail】

7.1 CODE ID

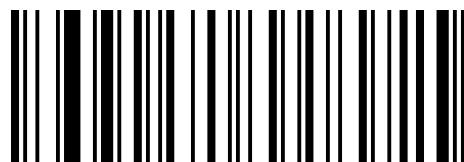
Users can identify different types of bar code by CODE ID.

CODE ID use one character to identify and can be self-defined. Pls see 10.4 Appendix 4 Code ID & AIM ID.



WaFbRa

*Forbid Code ID

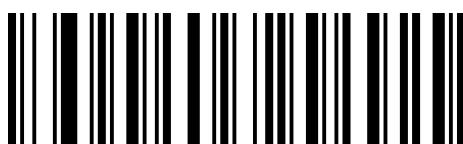


WaFbBb

Allow Code ID

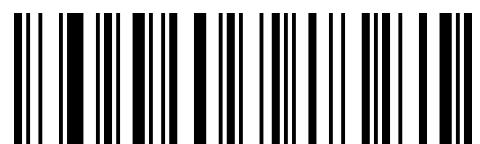
7.2 AIM ID

AIM is Automatic Identification Manufacturers. AIM ID defines identification codes for various standard bar codes (users cannot customize AIM ID). After decoding, the scanner can add this identification code to the bar code data, the format is "] "+ AIM Prefix+ digit" 0 ". For example, the AIM ID of Code 128 is "]C0". Pls see 10.4 Appendix 4 Code ID & AIM ID.



QaXdQa

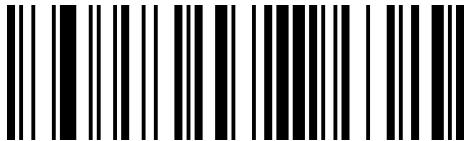
*Forbid AIM ID



QaXdAb

Allow AIM ID

7.3 Set STX and ETX



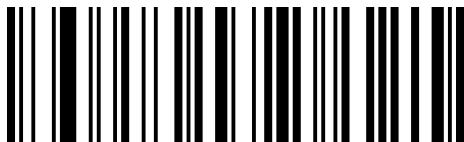
BbKdPa

*None



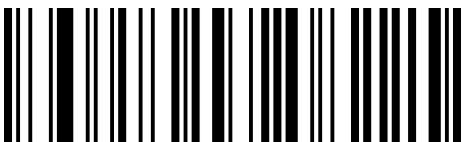
BbKdJb

<STX>



BbKdZa

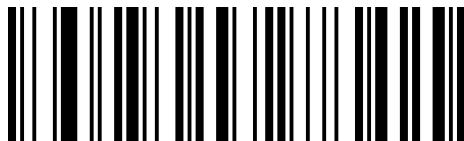
<ETX>



BbKdTb

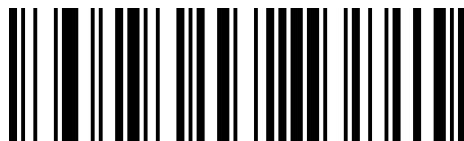
<STX+ETX>

7.4 Tail



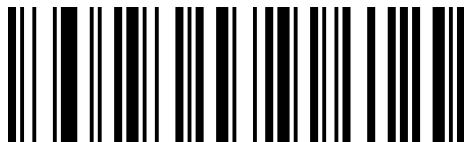
LbKdGb

*Change tail to <CR>(0x0D)



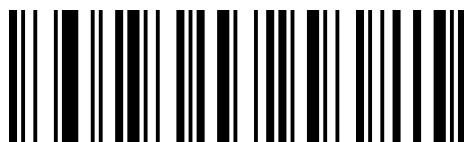
LbKdUc

Change tail to <LF>(0x0A)



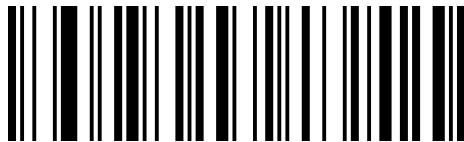
LbKdWa

Change tail to <CR><LF>(0x0D,0x0A)



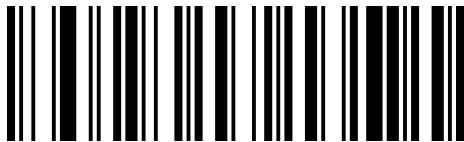
LbKdQb

Change tail to <HT>(0x09)



LbKdAc

Change tail to <CR><CR>(0x0D,0x0D)



LbKdKc

Change tail to
<CR><LF><CR><LF>(0x0D ,0x0A, 0x0D ,0x0A)



LbKdMa

Change tail to NONE

7.5 GS Character Setting

7.5.1 GS Character Substitution

GS control characters usually do not display properly in USB mode, we can output the bar code with GS character to the receiving device by character substitution.



McReLa

***No Replacement**

McReVa

Replace to Ç

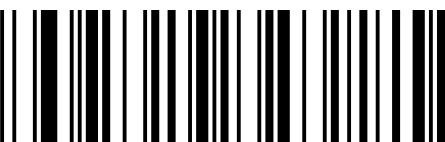
McReFb

Replace to |

McRePb

Replace to ^]

McReZb

Replace to]

McReJc

Replace to <GS>

McReTc

Replace to [GS]

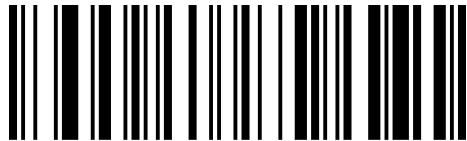
Note: when place to Ç, the Eurobyte must be enabled first.

7.5.2 GS AI Rule Output



XaHeYa

Allow



XaHeOa

*Forbid

7.6 Custom Prefix

7.6.1 Custom Prefix Setting

A custom prefix can contain a maximum of 10 characters.

Setting steps: Reference: 10.3.2 Example - Add Prefix and Suffix Setting



BeReTd

~Setting Custom Prefix

7.6.2 Clear Custom Prefix



BeReSd

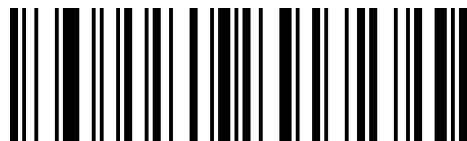
Clear Custom Prefix

7.7 Custom Suffix

7.7.1 Custom Suffix Setting

A custom suffix can contain a maximum of 10 characters.

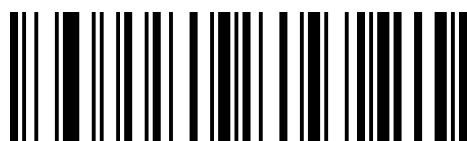
Setting steps: Reference: 10.3.2 Example - Add Prefix and Suffix Setting



BeReWd

Setting Custom Suffix

7.7.2 Clear Custom Suffix



BeReRd

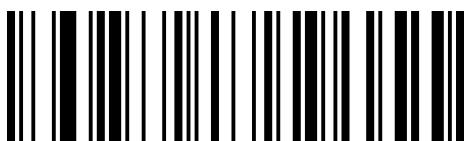
Clear Custom Suffix

7.8 Add Prefix/Suffix Based on Bar Code Type

7.8.1 Prefix and Suffix Corresponding to Different Bar Code Typ

You can add prefixes and suffixes independently for certain bar code types.

Setting steps: Reference: Appendix, 10.3.3 Example - Add Prefix/Suffix Based on Bar Code Type



SdAdLa

Setting UPC-A Prefix/Suffix



SdBdLa

Setting UPC-E Prefix/Suffix



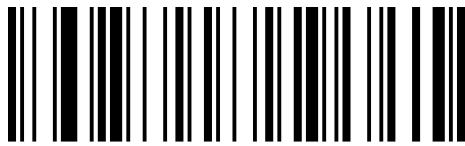
SdCdLa

Setting EAN-8 Prefix/Suffix



SdDdLa

Setting EAN-13 Prefix/Suffix



SdEdLa

Setting Code 39 Prefix/Suffix



SdFdLa

Setting Code 128 Prefix/Suffix



SdGdLa

Setting Telepen Prefix/Suffix



SdHdLa

Setting Code 93 Prefix/Suffix



SdIdLa

Setting CODE 11 Prefix/Suffix



SdJdLa

Setting MSI Plessey Prefix/Suffix



SdKdLa

Setting Codabar Prefix/Suffix



SdLdLa

Setting ITF25 Prefix/Suffix



SdMdLa

Setting Matrix25 Prefix/Suffix



SdNdLa

Setting IATA 25 Prefix/Suffix



SdPdLa

Setting Industrial 25 Prefix/Suffix

SdQdLa

Setting Triopic Prefix/Suffix

SdSdLa

Setting QR Code Prefix/Suffix

7.8.2 Set Custom Characters to Appear as Prefix or Suffix



QaZcSa

***Setting to Prefix**

QaZcCb

Setting to Suffix

7.8.3 Clear Prefix/Suffix of All Bar Code Type



BeReQd

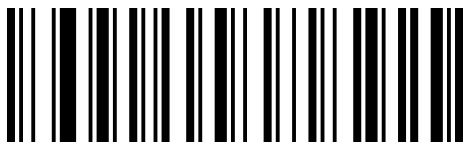
Clear Prefix/Suffix of All Bar Code Type

7.9 Hidden Character

7.9.1 Hidden Header Character

Decoding data for header data hiding, it can be configured to hide any length.

If the configured length exceeds the barcode data length, all contents of the current barcode are hidden.



WaQbCb

Allow



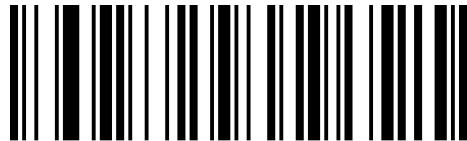
WaQbSa

***Forbid**

Sets Header Data Hiding Bits

The value ranges from 1 to 255. For details about how to set parameters, see **10.3 Appendix 3**

Examples of Custom Parameters



YdRbLa

~Sets Header Data Hiding Bits

Setting steps: Reference: **10.3.4 Example - Hidden Character Settings**

7.9.2 Hidden Middle Character

Decoding data for middle data hiding, and any starting position and length can be configured.

If the starting position of the configuration exceeds the barcode data length, the current barcode is not hidden.

If the configured length exceeds the remaining barcode data length, all barcode data after the start location is hidden.



WaQbBb

Allow

WaQbRa

***Forbid**

Sets the Start Bit of Hidden Middle Character

Sets the start location of hide middle characters,ranging from 1 to 255.

For example, if you need to hide data after the third character (starting with the fourth character),scan the digital setting code successively: 0 0 3.

The value ranges from 1 to 255. See **10.3 Appendix 3 Examples of Custom Parameters**



YdSbLa

~Start Bit of Hidden Middle Character

Sets Middle Data Hiding Bits

Sets the number of hide middle characters,ranging from 1 to 255.

For example, if 16 characters need to be hidden, then scan the digital setting code sequentially: 0, 1 and 6. See **10.2 Appendix 2 Data Code**



YdTbLa

~Middle Data Hiding Bits

Setting steps: Reference: **10.3.4 Example - Hidden Character Settings**

7.9.3 Hidden Tail Character

Decoding data for tail data hiding, it can be configured to hide any length.

If the configured length exceeds the barcode data length, all contents of the current barcode are hidden.



WaQbAb

Allow

WaQbQa

Forbid*Sets Tail Data Hiding Bits**

Sets the number of hide tail characters, ranging from 1 to 255. See **10.3 Appendix 3 Examples of Custom Parameters**.



YdUbLa

~Tail Data Hiding Bits

Setting steps: Reference: **10.3.4 Example - Hidden Character Settings**

7.10 Hidden Header/Middle/Tail Character Based on the Bar Code type

7.10.1 Hidden Header Character

Decoding data for header data hiding, it can be configured to hide any length.

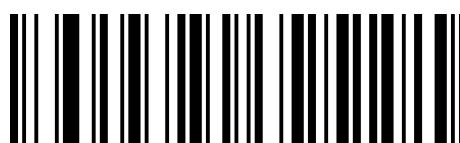
If the configured length exceeds the barcode data length, all contents of the current barcode are hidden.

Sets Header Data Hiding Bits

Ranging from 1 to 255. For example, if 16 characters need to be hidden, then scan the digital setting code sequentially: 0, 1 and 6.



BeWaLa



RdWa00

~UPC-E Header Data Hiding Bits**Clear UPC-E Header Data Hiding**



BeXaLa

~EAN 8 Header Data Hiding Bits



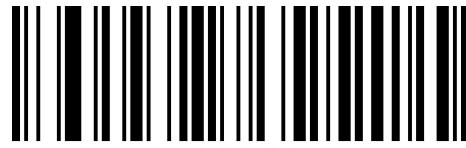
RdXa00

Clear EAN 8 Header Data Hiding



BeYaLa

~UPC-A Header Data Hiding Bits



RdYa00

Clear UPC-A Header Data Hiding



BeZaLa

~EAN 13 Header Data Hiding Bits



RdZa00

Clear EAN 13 Header Data Hiding



BeAbLa

~Code 39 Header Data Hiding Bits



RdAb00

Clear Code 39 Header Data Hiding



BeBbLa

~Codabar Header Data Hiding Bits

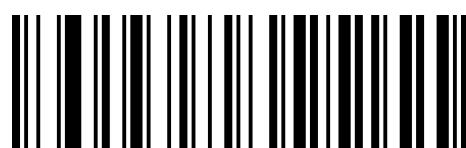


RdBb00

Clear Codabar Header Data Hiding



BeCbLa



RdCb00

~I25 Header Data Hiding Bits

Clear I25 Header Data Hiding



~Code 128 Header Data Hiding Bits



Clear Code 128 Header Data Hiding



~Code 93 Header Data Hiding Bits



Clear Code 93 Header Data Hiding



~QR Header Data Hiding Bits



Clear QR Header Data Hiding



~Data Matrix Header Data Hiding Bits



Clear Data Matrix Header Data Hiding



~PDF 417 Header Data Hiding Bits



Clear PDF 417 Header Data Hiding

7.10.2 Hidden Middle Character

Decoding data for middle data hiding, and any starting position and length can be configured.

If the starting position of the configuration exceeds the barcode data length, the current barcode is not hidden.

If the configured length exceeds the remaining barcode data length, all barcode data after the start

location is hidden.

Sets Middle Data Hiding Bits

Sets the number of hide middle characters,ranging from 1 to 255.

For example, if 16 characters need to be hidden, then scan the digital setting code sequentially: 0, 1 and 6.

Sets the Start Bit of Hidden Middle Character

Sets the start location of hide middle characters,ranging from 1 to 255.

For example, if you need to hide data after the third character (starting with the fourth character),scan the digital setting code successively: 0 0 3.



BeQbLa



BeKcLa

~UPC-E Start Bit of Hidden Middle Data



RdKc00

Clear UPC-E Middle Data Hiding



BeRbLa



BeLcLa

~EAN-8 Start Bit of Hidden Middle Data



RdLc00

Clear EAN-8 Middle Data Hiding



BeSbLa



BeMcLa

~UPC-A Start Bit of Hidden Middle Data

~UPC-A Middle Data Hiding Bits



RdMc00

Clear UPC-A Middle Data Hiding



BeTbLa



BeNcLa

~EAN-13 Start Bit of Hidden Middle Data

~EAN-13 Middle Data Hiding Bits



RdNc00

Clear EAN-13 Middle Data Hiding



BeUbLa



BeOcLa

~Code 39 Start Bit of Hidden Middle Data

~Code 39 Middle Data Hiding Bits



RdOc00

Clear Code 39 Middle Data Hiding



BeVbLa



BePcLa

~Codabar Start Bit of Hidden Middle Data**~Codabar Middle Data Hiding Bits**

RdPc00

Clear Codabar Middle Data Hiding

BeWbLa



BeQcLa

~I25 Start Bit of Hidden Middle Data**~I25 Middle Data Hiding Bits**

RdQc00

Clear I25 Middle Data Hiding

BeXbLa



BeRcLa

~Code 128 Start Bit of Hidden Middle Data**~Code 128 Middle Data Hiding Bits**

RdRc00

Clear Code 128 Middle Data Hiding



BeYbLa



BeScLa

~Code 93 Start Bit of Hidden Middle Data**~Code 93 Middle Data Hiding Bits**

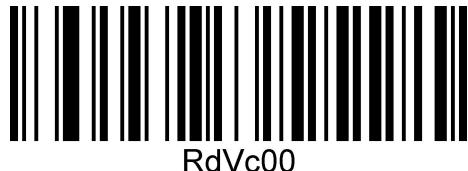
RdSc00

Clear Code 93 Middle Data Hiding

BeBcLa



BeVcLa

~QR Start Bit of Hidden Middle Data**~QR Middle Data Hiding Bits**

RdVc00

Clear QR Middle Data Hiding

BeAcLa



BeUcLa

~Data Matrix Start Bit of Hidden Middle Data**~Data Matrix Middle Data Hiding Bits**

RdUc00

Clear Data Matrix Middle Data Hiding



BeZbLa



BeTcLa

~PDF 417 Start Bit of Hidden Middle Data**~PDF 417 Middle Data Hiding Bits**

RdTc00

Clear PDF 417 Middle Data Hiding

7.10.3 Hidden Tail Character

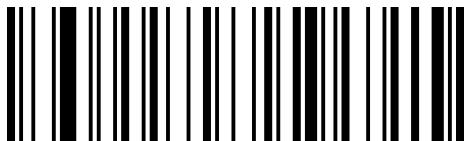
Decoding data for tail data hiding, it can be configured to hide any length.

If the configured length exceeds the barcode data length, all contents of the current barcode are hidden.

Sets Tail Data Hiding Bits

Sets the number of hide tail characters, ranging from 1 to 255.

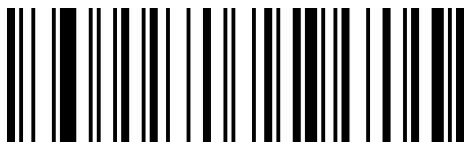
For example, if 16 characters need to be hidden, then scan the digital setting code sequentially: 0, 1 and 6.



BeEdLa



RdEd00

~UPC-E Tail Data Hiding Bits**Clear UPC-E Tail Data Hiding**

BeFdLa



RdFd00

~EAN 8 Tail Data Hiding Bits**Clear EAN 8 Tail Data Hiding**



BeGdLa



RdGd00

~UPC-A Tail Data Hiding Bits

BeHdLa



RdHd00

~EAN 13 Tail Data Hiding Bits

BeldLa



Rdld00

~Code 39 Tail Data Hiding Bits

BeJdLa



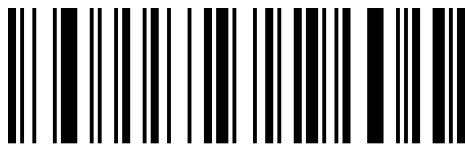
RdJd00

~Codabar Tail Data Hiding Bits

BeKdLa



RdKd00

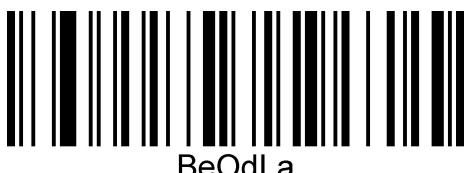
~I25 Tail Data Hiding Bits

BeLdLa



RdLd00

~Code 128 Tail Data Hiding Bits**Clear Code 128 Tail Data Hiding**

**~Code 93 Tail Data Hiding Bits****RdMd00****Clear Code 93 Tail Data Hiding****~QR Tail Data Hiding Bits****RdPd01****Clear QR Tail Data Hiding****~Data Matrix Tail Data Hiding Bits****RdOd00****Clear Data Matrix Tail Data Hiding****~PDF 417 Tail Data Hiding Bits****RdNd00****Clear PDF 417 Tail Data Hiding**

7.11 Insert Custom Data

Custom data can be inserted at any position of the bar code. A maximum of 10 bytes can be inserted.

Setting Step: **10.3.5 Example - Insert Custom Data**

7.11.1 Insert Custom Data Position

Sets the position of insert custom data, ranging from 1 to 255.

For example, if 16 characters need to be hidden, then scan the digital setting code sequentially: 0, 1 and 6. Refer to **10.2 Appendix 2 Data Code**.

If the position is set to 0, the header of the decoded data is inserted.

If the set position is larger than the decoded data length, the tail of the decoded data is inserted by default.



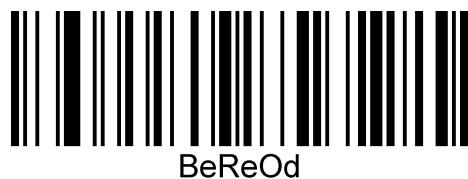
~Sets the position of insert custom data

7.11.2 Insert Custom Data Content



~Set the data to be inserted

7.11.3 Clear Insert Character



Clear the inserted character data

7.11.4 Display the Inserted Character Data



Allow



***Forbid**

7.11.5 Sets the Inserted Custom Character

For details, see **10.3 Appendix 3 Examples of Custom Parameters**



BeReYc

~Sets the Inserted Custom Character

7.12 Character Replacement

Setting Step: **10.3.9 Example - Character Replacement Setting.**



VdEeLa

~The character to be replaced



VdFeLa

~The new character after replacement

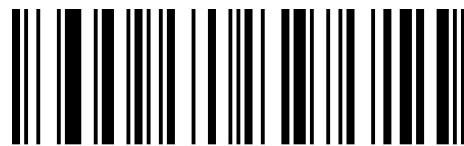
Note: To clear replacement characters, set "The character to be replaced" to NULL, that is, "000" in decimal.

7.13 Ctrl-Shift-Alt Function Key Prefix Setting



XaFeCb

Allow



XaFeSa

*Forbid

7.13.1 Ctrl Function Key



XaFeVa

Ctrl On



XaFeLa

*Ctrl Off

7.13.2 Shift Function Key



XaFeWa

Shift On



XaFeMa

*Shift Off

7.13.3 Alt Function Key



XaFeXa

Alt On



XaFeNa

*Alt Off

7.13.4 Custom Main Key



ZdGeLa

~Custom Main Key

For details, see **Appendix, 10.3.10 Example - Custom Function Key Prefix**

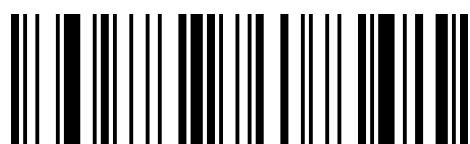
8 Bar Code Parameter Setting

8.1 Global Setting



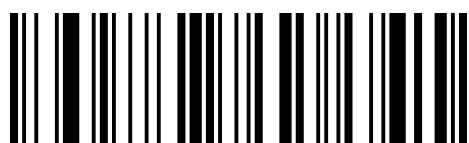
GbYaXa

Enable all bar code types



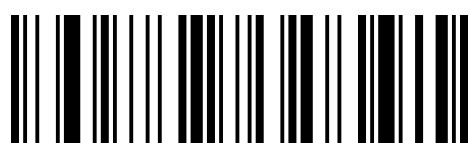
GbYaHb

Disable all bar code types



GbYaZa

Enable all 1D code types



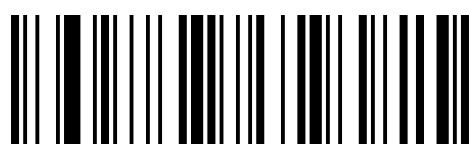
GbYaJb

Disable all 1D code types



GbYaBb

Enable all 2D code types



GbYaLb

Disable all 2D code types

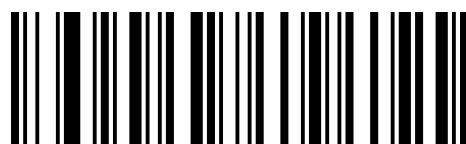
8.2 UPC-A

8.2.1 UPC-A



QaYaBb

*Allow

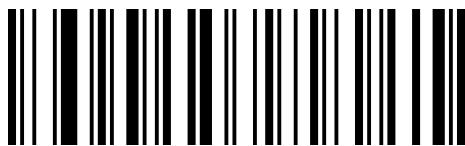


QaYaRa

Forbid

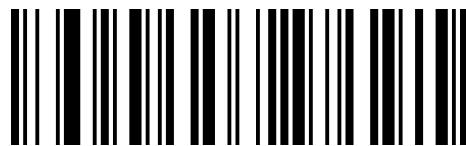
8.2.2 UPC-A Transfer Check Character

The UPC-A barcode contains 12 characters and the 12th bit is the check character. It is used to verify the correctness of all 12 characters. The default value is the transmission check character.



QaTdCb

***Allow**



QaTdSa

Forbid

8.2.3 UPC-A 2/5 Bit Additional Bits



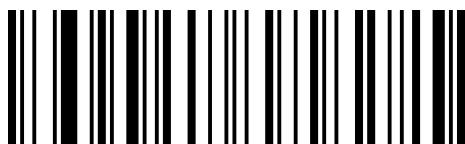
1 2 3 4 5 6 7 8 9 0 1

2 3



0 1 2 3 4 5 6 7 8 9 0

1 2 3 4 5



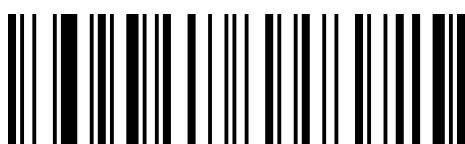
QalbCb

Allow 2 Bit



QalbSa

***Forbid 2 Bit**



QalbBb

Allow 5 Bit

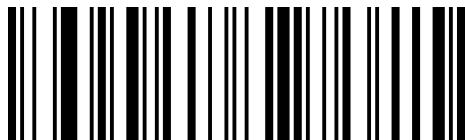


QalbRa

***Forbid 5 Bit**

8.2.4 UPC-A Forced Additional Bit

After scanning "Force read contains additional bits", only can read the bar code with additional bits.



QalbYa

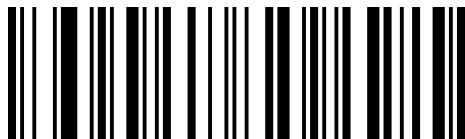
Allow



QalbOa

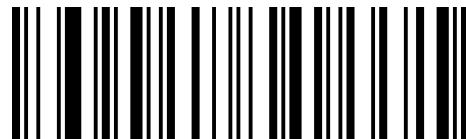
***Forbid**

8.2.5 UPC-A Additional Bit Separator



QalbXa

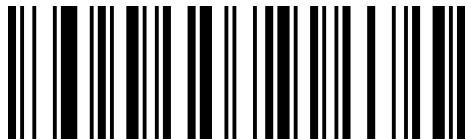
***Allow**



QalbNa

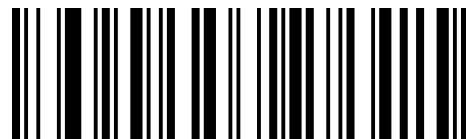
Forbid

8.2.6 UPC-A Transport System Character



QaTdWa

***Allow**



QaTdMa

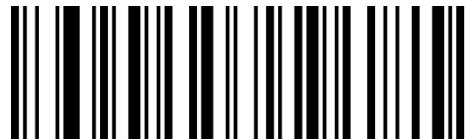
Forbid

8.2.7 UPC-A to EAN13



QaTdVa

Allow



QaTdLa

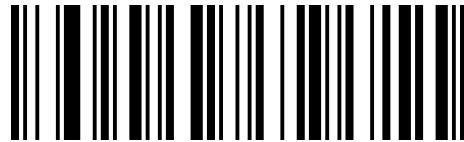
***Forbid**

8.3 UPC-E

8.3.1 UPC-E



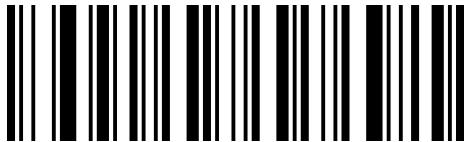
QaYaVa

***Allow UPC-E0**

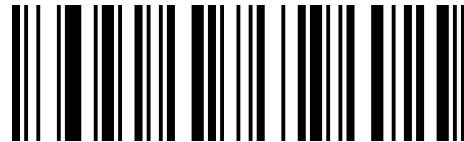
QaYaLa

Forbid UPC-E0

8.3.2 UPC-E1



WaYaVa

Allow UPC-E1

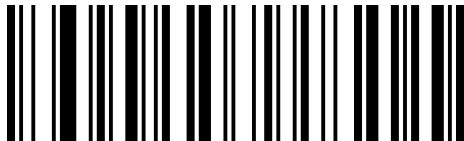
WaYaLa

***Forbid UPC-E1**

Note: when need to Allow UPC-E1,need to allow UPC-E0 first.

8.3.3 UPC-E Transfer Check Character

The UPC-E barcode contains 8 characters and the 8th bit is the check character. It is used to verify the correctness of all 8 characters. The default value is the transmission check character.



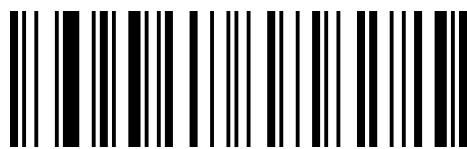
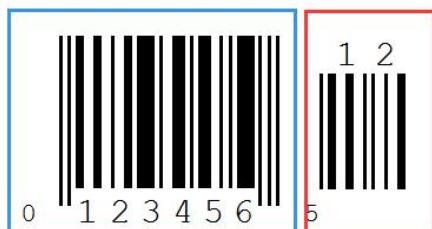
QaTdBb

***Allow**

QaTdRa

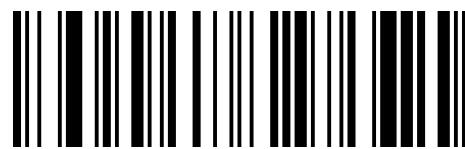
Forbid

8.3.4 UPC-E 2/5 Bit Additional Bits



QalbCb

Allow 2 Bit



QalbSa

***Forbid 2 Bit**



QalbBb

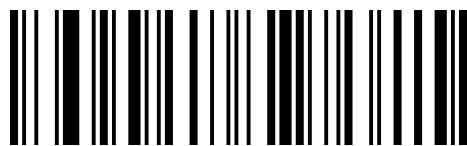
Allow 5 Bit



QalbRa

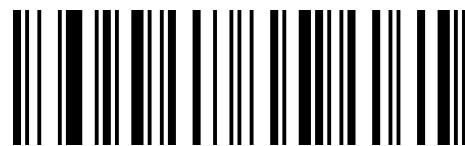
***Forbid 5 Bit**

8.3.5 UPC-E Forced Additional Bit



QalbYa

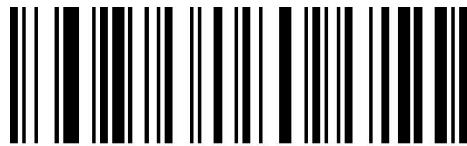
Allow



QalbOa

***Forbid**

8.3.6 UPC-E Additional Bit Separator



SaAeXa



SaAeNa

Allow*Forbid**

8.3.7 UPC-E Transport Number System Character

The country code of the UPC-E bar code is a prefix character, which is usually not displayed in the identifiable characters at the bottom of the bar code. 0 indicates USA.



QaTdYa



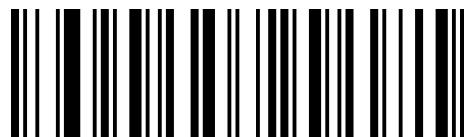
QaTdOa

Allow*Forbid**

8.3.8 UPC-E to UPC-A



QaTdAb

Allow

QaTdQa

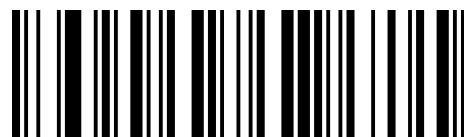
***Forbid**

8.4 EAN/JAN 8

8.4.1 EAN/JAN 8



QaYaZa

***Allow**

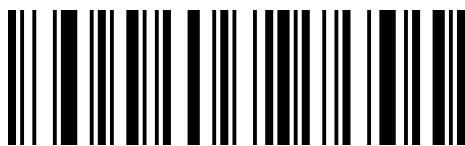
QaYaPa

Forbid

8.4.2 EAN 8 Transfer Check Character

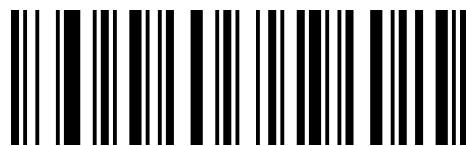
The EAN/JAN8 barcode contains 8 characters and the 8th bit is the check character. It is used to

verify the correctness of all 8 characters. The default value is the transmission check character.



QaXdVa

***Allow**



QaXdLa

Forbid

8.4.3 EAN 8 2/5 Bit Additional Bits



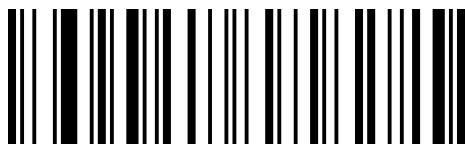
QalbCb

Allow 2 Bit



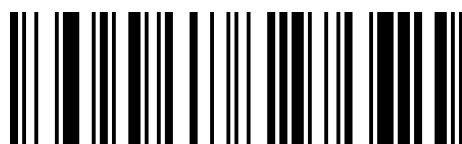
QalbSa

***Forbid 2 Bit**



QalbBb

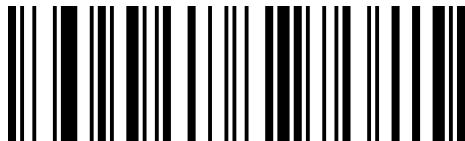
Allow 5 Bit



QalbRa

***Forbid 5 Bit**

8.4.4 EAN8 Forced Additional Bit



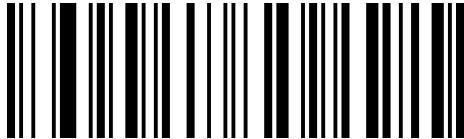
QalbYa



QalbOa

Allow***Forbid**

8.4.5 EAN 8 Additional Bit Separator



QalbXa

***Allow**

QalbNa

Forbid

8.4.6 EAN 8 to EAN 13



QaTdXa

Allow

QaTdNa

***Forbid**

8.5 EAN/JAN 13

8.5.1 EAN/JAN 13



QaYaWa

***Allow**

QaYaMa

Forbid

8.5.2 EAN-13 Transfer Check Character

The EAN/JAN13 contains 13 characters and the 13th bit is the check character. It is used to verify the correctness of all 12 characters. The default value is the transmission check character.



QaXdXa

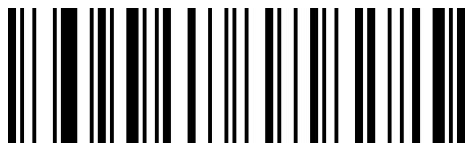
***Allow**



QaXdNa

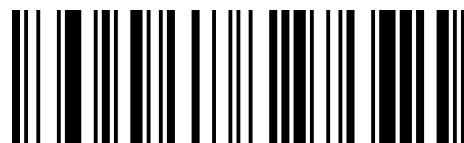
Forbid

8.5.3 EAN-13 2/5 Bit Additional Bits



QalbCb

Allow 2 Bit



QalbSa

***Forbid 2 Bit**



QalbBb

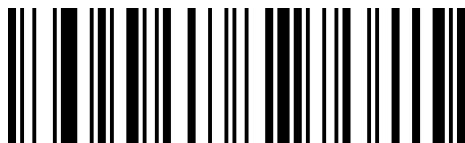
Allow 5 Bit



QalbRa

***Forbid 5 Bit**

8.5.4 EAN-13 Forced Additional Bit



QalbYa

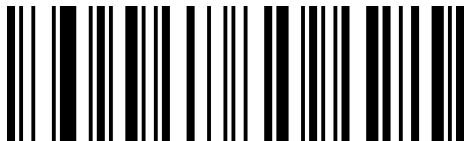
Allow



QalbOa

***Forbid**

8.5.5 EAN-13 Additional Bit Separator



QalbXa

***Allow**

QalbNa

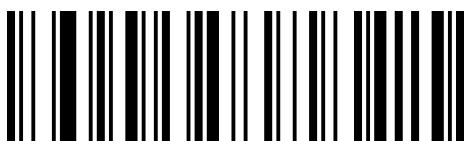
Forbid

8.6 ISBN(Bookland/ISBN-13)

8.6.1 ISBN

The ISBN is a 10-bit book code. If the ISBN is not enabled, it is output in EAN13 format.

When enabled, output 9-bit book code, output 10-bit need to be enabled check.



QaJbCb

Allow

QaJbSa

***Forbid**

8.6.2 ISBN Transfer Check Character



QaJbAb

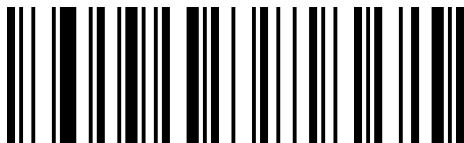
Allow

QaJbQa

***Forbid**

8.7 ISSN

8.7.1 ISSN



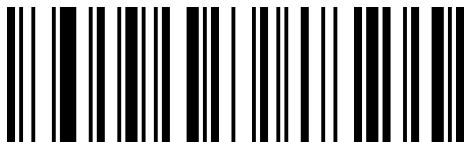
RaVcCb

Allow

RaVcSa

***Forbid**

8.7.2 ISSN Transfer Check Character



RaVcAb

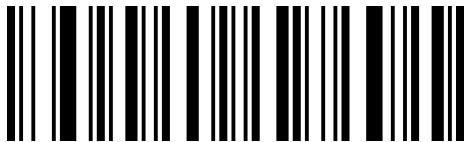
Allow

RaVcQa

***Forbid**

8.8 Code 128

8.8.1 Code 128



QaXaYa

***Allow**

QaXaOa

Forbid

8.8.2 Code 128 Reading Length Setting

The default Code128 read bits are 0-80.

The scanner can be configured to read only Code 128 barcodes with length between (inclusive) minimum length (0-80) and maximum length (0-80).



XdLbLa

~Min Length



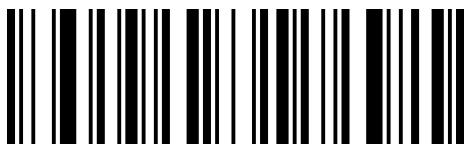
XdJbLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

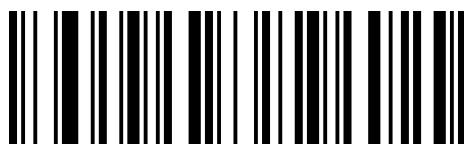
8.9 GS1-128(UCC/EAN 128)

8.9.1 GS1-128



RaYcVa

*Allow



RaYcLa

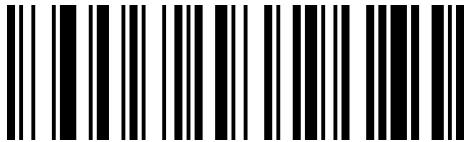
Forbid

Note: GS1-128 also known as EAN-128, UCC-128, UCC/EAN-128

8.9.2 GS1-128 Reading Length Setting

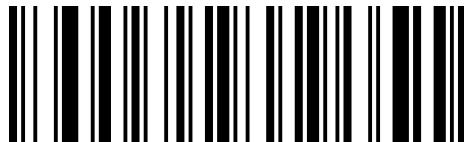
The default GS1-128 read bits are 0-80.

The scanner can be configured to read only GS1-128 barcodes with length between (inclusive) minimum length (0-80) and maximum length (0-80).



XdKbLa

~Min Length



XdLbLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.10 ISBT 128

8.10.1 ISBT 128 Connection Function Setting



TaCeCb

Allow

TaCeSa

***Forbid**

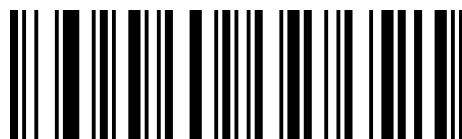
Note: ISBT128 is a subclass of Code128, which can be enabled or disabled by Code128 setting. ISBT128 connection function is used to set whether to read the ISBT barcode with additional bits. When the setting is enabled, the ISBT128 barcode with additional bits can be read. It is also possible to read the ISBT 128 bar code without additional bits.

8.11 Code 39

8.11.1 Code 39



QaXaWa

***Allow**

QaXaMa

Forbid

8.11.2 Code 39 Check Character Setting

Code 39 Check characters are not mandatory in the barcode data. If there is a check character, it is the last character of the data.

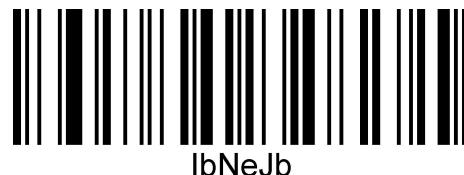


IbNePa

***No Parity**

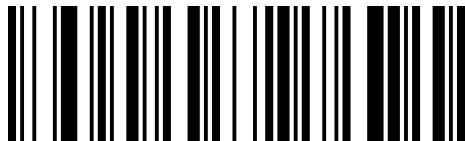


IbNeZa
Allow and Transfer Character



IbNeJb
Allow and do not Transfer Character

8.11.3 Code 39 Transfer Start and End Character

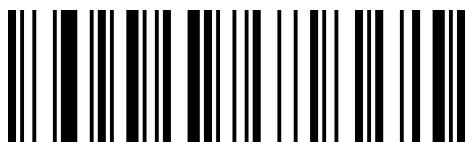


QaVdVa
Allow



QaVdLa
***Forbid**

8.11.4 Code 39 Full ASCII Identification Range



QaYaCb
Allow



QaYaSa
***Forbid**

8.11.5 Code 39 Reading Length Setting

The default Code 39 read bits are 0-48.

The scanner can be configured to read only Code 39 barcodes with length between (inclusive) minimum length (0-48) and maximum length (0-48).



XdMbLa
~Min Length



XdNbLa
~Max Length

Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.12 Code 32 Pharmaceutical (PARAF)

8.12.1 Code 32 Pharmaceutical

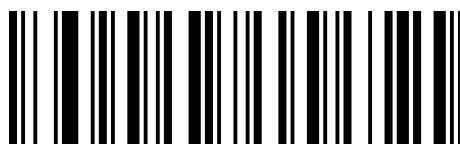
Code 32 Pharmaceutical is a form of Code 39 used in Italian pharmacies. When read Code 32 have to turn off the Trioptic Code.

The bar code is also known as PARAF. The output format of Code 32 is: * + A + 8-bit digits + 1-bit check + *. The "*" can be enabled by setting the start and end character of Code 39.



QaYaAb

Allow



QaYaQa

***Forbid**

8.12.2 Code 32 Check Character Setting



WaYaWa

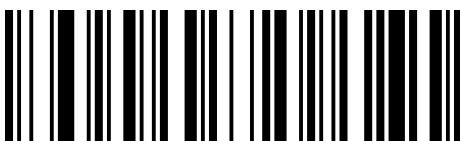
***Allow**



WaYaMa

Forbid

8.12.3 Code 32 Add the Letter Prefix A



QaVdXa

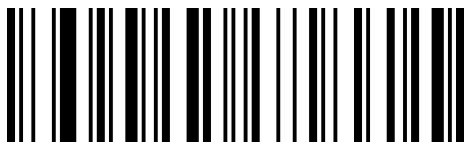
Allow



QaVdNa

***Forbid**

8.12.4 Code 32 Fail to Read



QaZaCb

***Allow**

QaZaSa

Forbid

8.13 Code 93

8.13.1 Code 93



QaXaXa

***Allow**

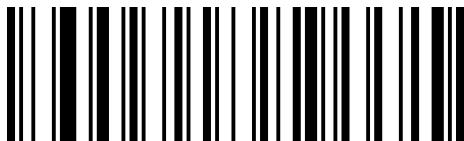
QaXaNa

Forbid

8.13.2 Code 93 Reading Length Setting

The default Code 93 read bits are 0-80.

The scanner can be configured to read only Code 93 barcodes with length between (inclusive) minimum length (0-80) and maximum length (0-80).



XdEcLa

~Min Length

XdFcLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.14 Code 11

8.14.1 Code 11



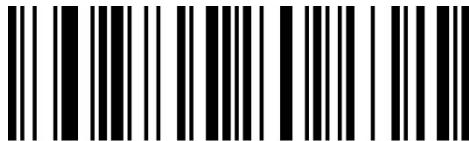
QaWaYa

Allow

QaWaOa

***Forbid**

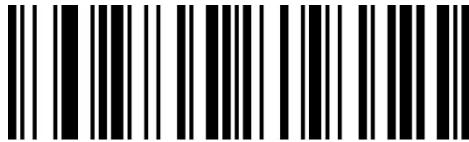
8.14.2 Code 11 Check Character Setting



SbOeXa

Enable 1-bit check and transmit

SbOeNa

***Enable 2-bit check and transmit**

SbOeRb

Enable 1-bit check and do not transmit

SbOeHb

Enable 2-bit check and do not transmit

SbOeBc

No check

8.14.3 Code 11 Reading Length Setting

The default Code 11 read bits are 4-80.

The scanner can be configured to read only Code 11 barcodes with length between (inclusive) minimum length (1-80) and maximum length (1-80).



XdObLa

~Min Length



XdPbLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.15 Codabar (NW-7)

8.15.1 Codabar



QaXaZa

*Allow



QaXaPa

Forbid

8.15.2 Codabar Check Character Setting



IbNeRa

*No Check



IbNeBb

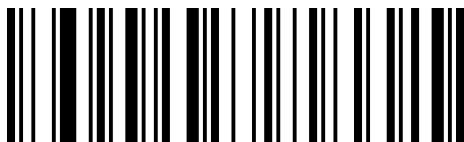
Enable and transmit



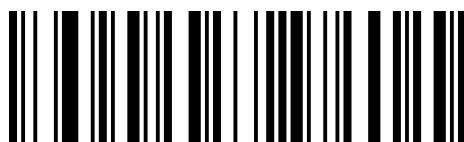
IbNeLb

Enable and do not transmit

8.15.3 Codabar Start and End Character Setting



QaVdCb

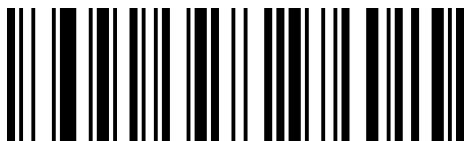
Allow

QaVdSa

***Forbid**

8.15.4 Codabar Start and End Character Format

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



WaMbSa

***ABCD/ABCD**

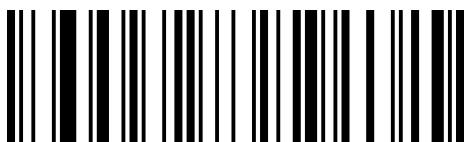
WaMbCb

ABCD/TN*E

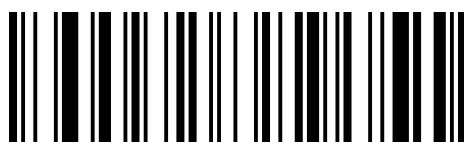
8.15.5 Codabar Reading Length Setting

The default Codabar read bits are 4-60.

The scanner can be configured to read only Codabar barcodes with length between (inclusive) minimum length (2-60) and maximum length (2-60).



XdGcLa

~Min Length

XdHcLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.16 Interleaved 2 of 5

8.16.1 Interleaved 2 of 5



QaXaAb

***Allow**

QaXaQa

Forbid

8.16.2 Interleaved 2 of 5 Check Character Setting



IbNeNa

***No check**

IbNeXa

Enable and transmit

IbNeHb

Enable and do not transmit

8.16.3 Interleaved 2 of 5 Reading Length Setting

The default Interleaved 2 of 5 read bits are 4-80.

The scanner can be configured to read only Interleaved 2 of 5 barcodes with length between (inclusive) minimum length (2-80) and maximum length (2-80).



XdSbLa

~Min Length

XdTbLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.17 Matrix 2 of 5

8.17.1 Matrix 2 of 5



QaWaAb

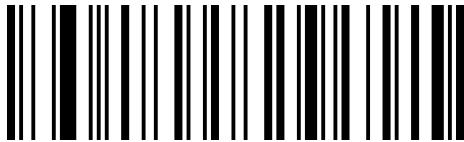
***Allow**



QaWaQa

Forbid

8.17.2 Matrix 2 of 5 Check Character Setting



AbBbRa

***No Check**



AbBbBb

Enable and transmit



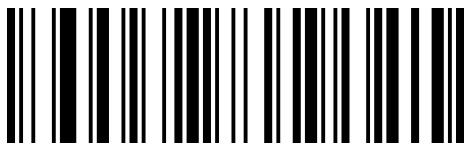
AbBbLb

Enable and do not transmit

8.17.3 Matrix 2 of 5 Reading Length Setting

The default Matrix 2 of 5 read bits are 4-80.

The scanner can be configured to read only Matrix 2 of 5 barcodes with length between (inclusive) minimum length (1-80) and maximum length (1-80).



XdYbLa

~Min Length

XdZbLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.18 Industrial 2 of 5

8.18.1 Industrial 2 of 5



QaXaVa

***Allow**

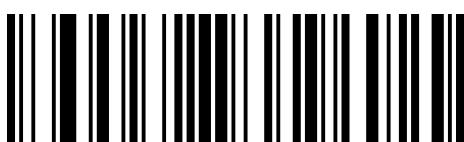
QaXaLa

Forbid

8.18.2 Industrial 2 of 5 Reading Length Setting

The default Industrial 2 of 5 read bits are 4-48.

The scanner can be configured to read only Industrial 2 of 5 barcodes with length between (inclusive) minimum length (1-48) and maximum length (1-48).



XdUbLa

~Min Length

XdVbLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.19 Standard 2 of 5(IATA 2 of 5)

8.19.1 Standard 2 of 5



QaWaZa

Allow

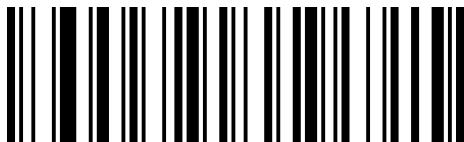
QaWaPa

***Forbid**

8.19.2 Standard 2 of 5 Reading Length Setting

The default Standard 2 of 5 read bits are 4-48.

The scanner can be configured to read only Standard 2 of 5 barcodes with length between (inclusive) minimum length (1-48) and maximum length (1-48).



XdWbLa

~Min Length

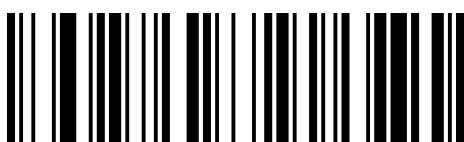
XdXbLa

~Max Length

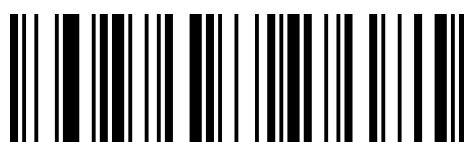
Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.20 NEC 2 of 5

8.20.1 NEC 2 of 5



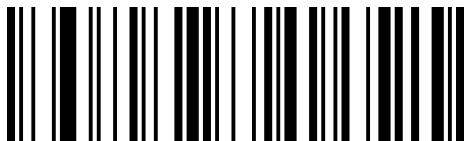
SaYdWa

Allow

SaYdMa

***Forbid**

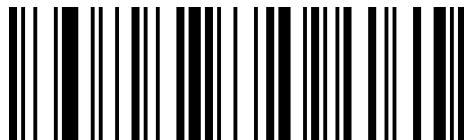
8.20.2 NEC 2 of 5 Check Character Setting



CbYdNa

***No check**

CbYdHb

Enable and transmit

CbYdXa

Enable and do not transmit

8.20.3 NEC 2 of 5 Reading Length Setting

The default NEC 2 of 5 read bits are 4-80.

The scanner can be configured to read only NEC 2 of 5 barcodes with length between (inclusive) minimum length (2-80) and maximum length (2-80).



XdAcLa

~Min Length

XdBcLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.21 MSI Plessey

8.21.1 MSI Plessey



QaYaXa



QaYaNa

Allow

*Forbid

8.21.2 MSI Plessey Check Character Setting



SbOeQa

*No check



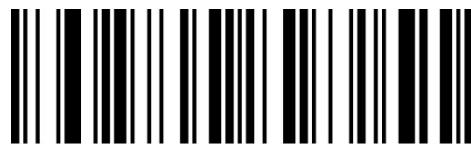
SbOeOc

Mode10 Enable and do not transmit



SbOeld

Two Mode10 Enable and do not transmit



SbOeYc

Mode10&Mode11 Enable and do not transmit



SbOeAb

Mode10 Enable and transmit



SbOeKb

Mode10&Mode11 Enable and transmit



SbOeUb

Two Mode10 Enable and transmit

8.21.3 MSI Plessey Reading Length Setting

The default MSI Plessey read bits are 4-48.

The scanner can be configured to read only MSI Plessey barcodes with length between (inclusive) minimum length (4-48) and maximum length (4-48).



XdCcLa

~Min Length

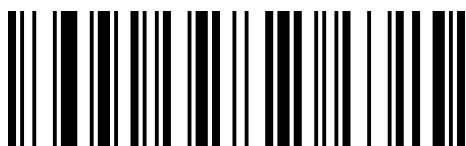
XdDcLa

~Max Length

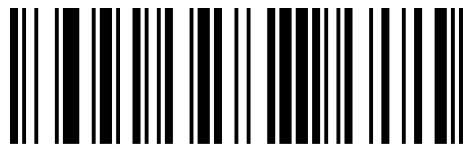
Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.22 UK Plessey

8.22.1 UK Plessey



WaMbZa

Allow

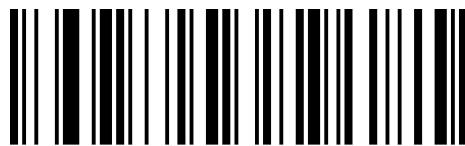
WaMbPa

***Forbid**

8.22.2 UK Plessey Reading Length Setting

The default UK Plessey read bits are 4-48.

The scanner can be configured to read only UK Plessey barcodes with length between (inclusive) minimum length (4-48) and maximum length (4-48).



YdOcLa

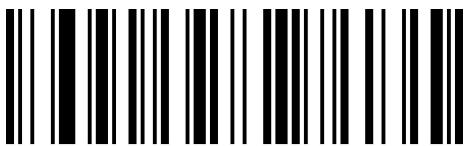
~Min Length

YdPcLa

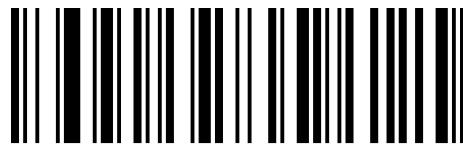
~Max Length

8.23 Posi Code

8.23.1 Posi Code



WaMbYa

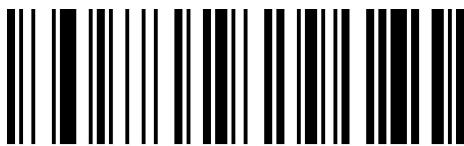


WaMbOa

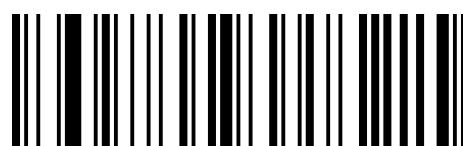
Allow

*Forbid

8.23.2 Posi Limit Mode



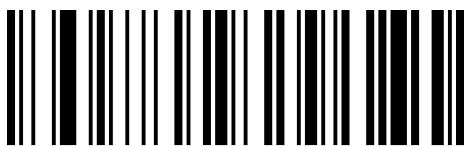
GbLbRa



GbLbBb

*Posi Code Limit Off Mode

Posi code Limit A Mode



GbLbRa

Posi code Limit B Mode

8.23.3 Posi Code Reading Length Setting

The default Posi Code read bits are 4-48.

The scanner can be configured to read only Posi Code barcodes with length between (inclusive) minimum length (4-48) and maximum length (4-48).



YdQcLa

~Min Length



YdRcLa

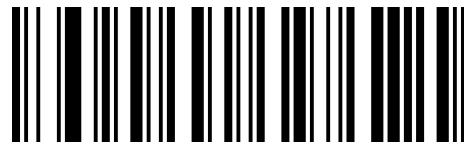
~Max Length

8.24 Telepen

8.24.1 Telepen



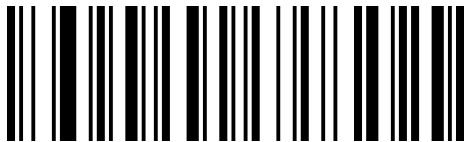
QaWaCb

Allow

QaWaSa

***Forbid**

8.24.2 Telepen Character Type



QaWaBb

Number Type

QaWaRa

***Letter+Number Type**

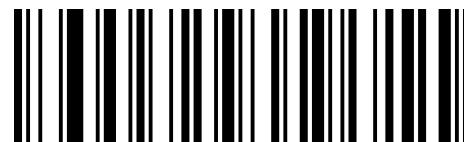
8.24.3 Telepen Reading Length Setting

The default Telepen read bits are 1-60.

The scanner can be configured to read only Telepen barcodes with length between (inclusive) minimum length (1-60) and maximum length (1-60).



XdQbLa

~Min Length

XdRbLa

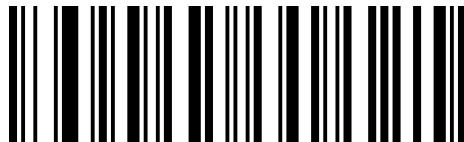
~Max Length

Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.25 Trioptic Code



QaZaXa

Allow

QaZaNa

***Forbid**

Note: The Trioptic code is fixed at 6 digits, and the first 3 digits and the last 3 digits of the data result are exchanged.

8.26 BC412

8.26.1 BC412



WaMbVa

Allow

WaMbLa

***Forbid**

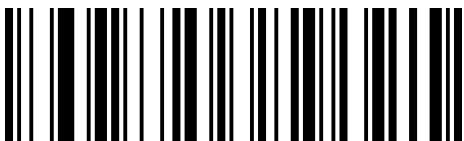
8.26.2 BC412 Reading Length Setting

The default BC412 read bits are 4-48.

The scanner can be configured to read only BC412 barcodes with length between (inclusive) minimum length (4-48) and maximum length (4-48).



YdWcLa

~Min Length

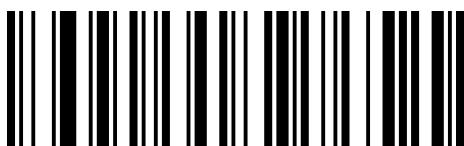
YdXcLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.27 Febraban Brazilian Bank Code

8.27.1 Febraban(ITF25)



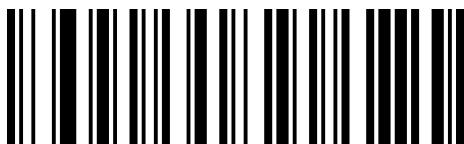
WaNbVa

Allow

WaNbLa

***Forbid**

8.27.2 Febraban(Code 128)



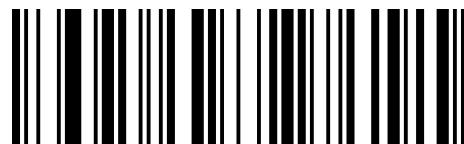
WaNbWa

Allow

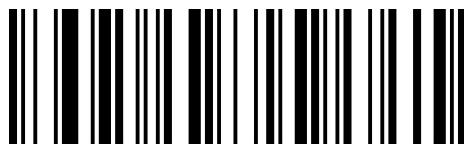
WaNbMa

***Forbid**

8.27.3 Only Read Febraban



ZaYdYa

Allow

ZaYdOa

Forbid

8.27.4 Febraban Check Character Setting



WaNbXa

Allow

WaNbNa

***Forbid**

8.28 Coupon

UPC-A and EAN-13 codes can carry the Coupon extension code.

There are two types of Coupon:

UPC-A + GS1-128 starting with 5 (Opened through Coupon On. After open, the UPC code starting with 5 cannot be recognized, and GS1-128 starting with 810 or 8110 cannot be recognized).

EAN-13 + GS1-128 starting with 99 (after Coupon On, you need to open it with EAN99 Coupon On. After open, the UPC code starting with 99 is not recognized, and the GS1-128 starting with 810 or 8110 is not recognized).

8.28.1 UPC-A Coupon



Allow UPC-A Coupon



*Forbid UPC-A Coupon

8.28.2 EAN-13(99) Coupon



Allow EAN-13(99) Coupon

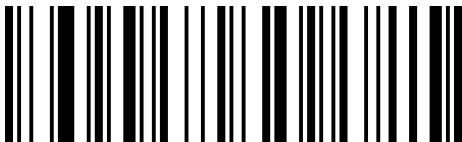


*Forbid EAN-13(99) Coupon

Note: UPC-A Coupon must be enabled before using EAN-13(99) Coupon.

8.29 QR Code

8.29.1 QR Code



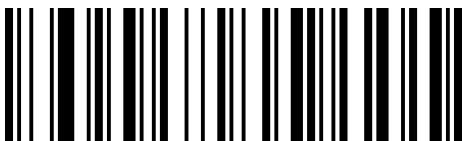
QaCbXa

***Allow**

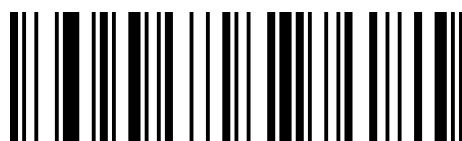
QaCbNa

Forbid

8.29.2 QR Code Forward and Backward Reading



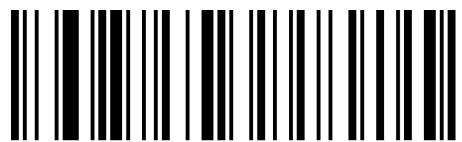
QaCbOa

***Only Forward**

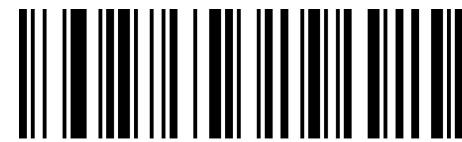
QaCbYa

Forward+Backward

8.29.3 QR Code Append



SaOcBb

Allow QR Code Append

SaOcRa

***Forbid QR Code Append**

Note: The QR code append function can read 2-3 QR codes together with the connection function.

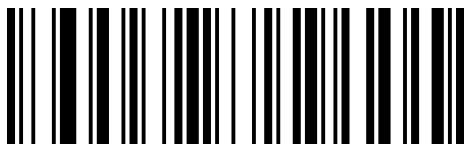
8.29.4 QR Code Reading Length Setting

The default QR Code read bits are 1-7089.

The scanner can be configured to read only QR Code barcodes with length between (inclusive) minimum length (1-7089) and maximum length (1-7089).

Minimum read length = minimum length high bytes * 256 + minimum length low bytes

Maximum read length = Maximum length high bytes * 256+ Maximum length low bytes



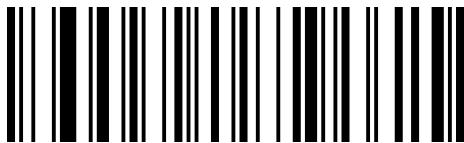
XdYdLa

~Min Length(Low Bytes)



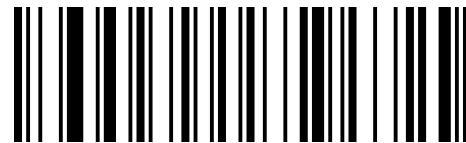
XdZdLa

~Min Length(High Bytes)



XdAeLa

~Max Length(Low Bytes)



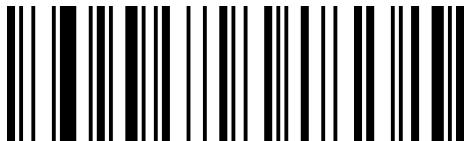
XdBela

~Max Length(High Bytes)

Setting steps: **Reference: Appendix,10.3.12 Example - Set 2D Code Reading Length**

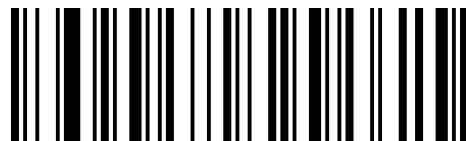
8.30 Micro QR Code

8.30.1 Micro QR Code



QaCbAb

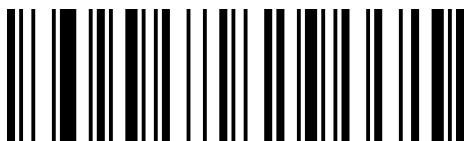
***Allow**



QaCbQa

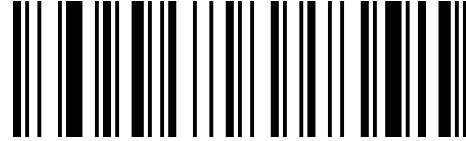
Forbid

8.30.2 Micro QR Code Forward and Backward Reading



QaCbRa

***Only Forward**

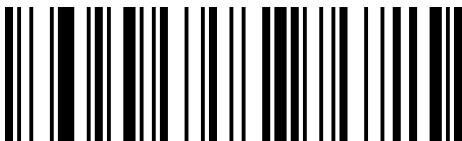


QaCbBb

Forward and Backward

8.31 Data Matrix

8.31.1 Data Matrix



QaBbYa

***Allow**

QaBbOa

Forbid

8.31.2 Data Matrix Rectangular Code Reading



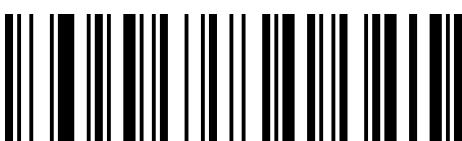
QaBbWa

Allow

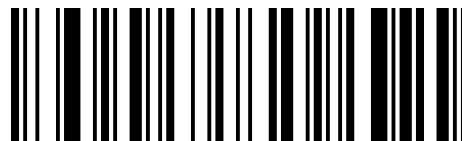
QaBbMa

***Forbid**

8.31.3 Data Matrix Forward and Backward Reading



QaBbNa

***Only Forward**

QaBbXa

Forward and Backward

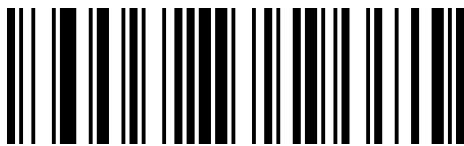
8.31.4 Data Matrix Reading Length Setting

The default Data Matrix read bits are 1-3116.

The scanner can be configured to read only Data Matrix barcodes with length between (inclusive) minimum length (1-3116) and maximum length (1-3116).

Minimum read length = minimum length high bytes * 256+ minimum length low bytes

Maximum read length = Maximum length high bytes * 256+ Maximum length low bytes



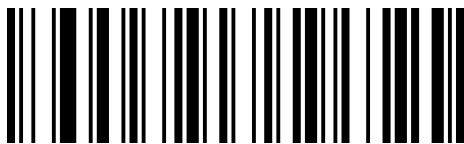
XdUdLa

~Min Length(Low Bytes)



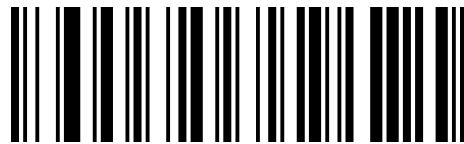
XdVdLa

~Min Length(High Bytes)



XdWdLa

~Max Length(Low Bytes)



XdXdLa

~Max Length(High Bytes)

Setting steps: **Reference: Appendix, 10.3.12 Example - Set 2D Code Reading Length**

8.32 PDF 417

8.32.1 PDF 417



QaWaVa

***Allow**



QaWaLa

Forbid

8.32.2 PDF 417 Reading Length Setting

The default PDF 417 read bits are 1-2750.

The scanner can be configured to read only PDF 417 barcodes with length between (inclusive) minimum length (1-2750) and maximum length (1-2750).

Minimum read length = minimum length high bytes * 256+ minimum length low bytes

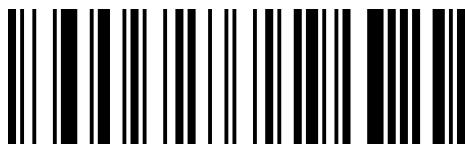
Maximum read length = Maximum length high bytes * 256+ Maximum length low bytes



XdGdLa

~Min Length(Low Bytes)

XdHdLa

~Min Length(High Bytes)

XdIdLa

~Max Length(Low Bytes)

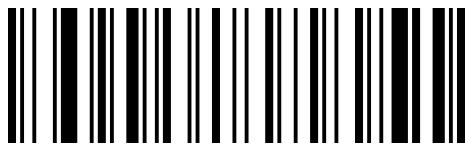
XdJdLa

~Max Length(High Bytes)

Setting steps: **Reference: Appendix,10.3.12 Example - Set 2D Code Reading Length.**

8.33 Micro PDF 417

8.33.1 Micro PDF 417



QaAbCb

Allow

QaAbSa

***Forbid**

8.33.2 Micro PDF 417 Reading Length Setting

The default Micro PDF 417 read bits are 1-366.

The scanner can be configured to read only Micro PDF 417 barcodes with length between (inclusive) minimum length (1-366) and maximum length (1-366).

Minimum read length = minimum length high bytes * 256+ minimum length low bytes

Maximum read length = Maximum length high bytes * 256+ Maximum length low bytes

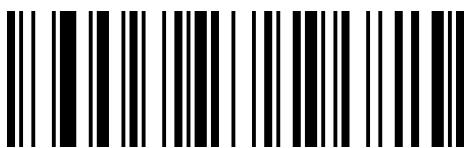


XdKdLa



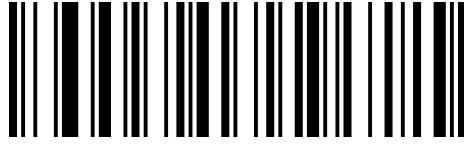
XdLdLa

~Min Length(Low Bytes)



XdMdLa

~Min Length(High Bytes)



XdNdLa

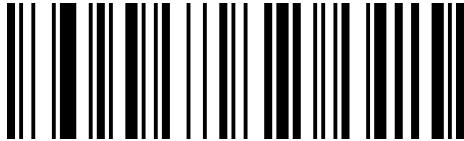
~Max Length(Low Bytes)

Setting steps: **Reference: Appendix, 10.3.12 Example - Set 2D Code Reading Length**

~Max Length(High Bytes)

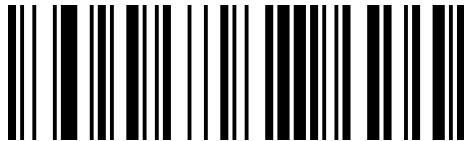
8.34 MaxiCode

8.34.1 MaxiCode



QaCbZa

Allow



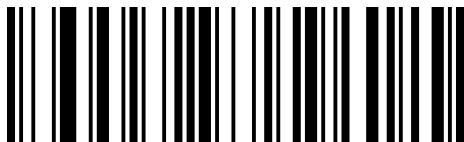
QaCbPa

***Forbid**

8.34.2 MaxiCode Reading Length Setting

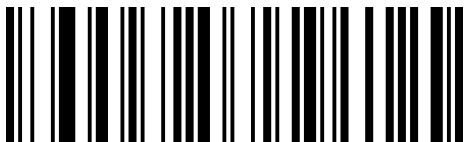
The default MaxiCode read bits are 1-150.

The scanner can be configured to read only MaxiCode barcodes with length between (inclusive) minimum length (1-150) and maximum length (1-150).



XdSdLa

~Min Length



XdTdLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.12 Example - Set 2D Code Reading Length**

8.35 Aztec Code

8.35.1 Aztec Code



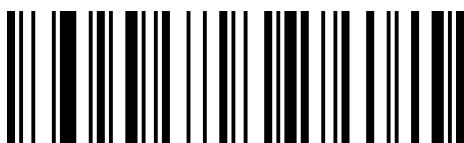
QaCbVa

Allow

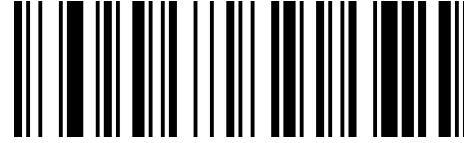
QaCbLa

***Forbid**

8.35.2 Aztec Code Forward and Backward Reading



QaCbMa

***Only Forward**

QaCbWa

Forward and Backward

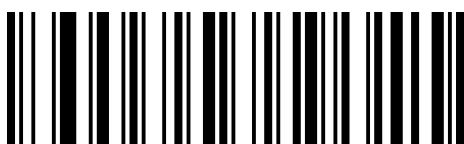
8.35.3 Aztec Code Reading Length Setting

The default Aztec Code read bits are 1-3832.

The scanner can be configured to read only Aztec Code barcodes with length between (inclusive) minimum length (1-3832) and maximum length (1-3832).

Minimum read length = minimum length high bytes * 256+ minimum length low bytes

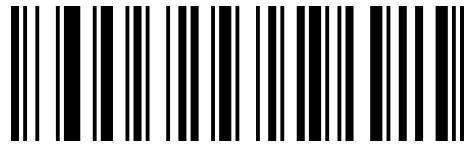
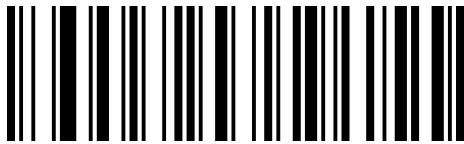
Maximum read length = Maximum length high bytes * 256+ Maximum length low bytes



XdOdLa

~Min Length(Low Bytes)

XdPdLa

~Min Length(High Bytes)

XdQdLa

~Max Length(Low Bytes)

XdRdLa

~Max Length(High Bytes)

8.36 HanXin Code

8.36.1 HanXin Code



SaRdWa

Allow



SaRdMa

***Forbid**

8.36.2 HanXin Code Reading Length Setting

The default HanXin Code read bits are 1-7883.

The scanner can be configured to read only HanXin Code barcodes with length between (inclusive) minimum length (1-7883) and maximum length (1-7883).

Minimum read length = minimum length high bytes * 256+ minimum length low bytes

Maximum read length = Maximum length high bytes * 256+ Maximum length low bytes



XdCeLa

~Min Length(Low Bytes)



XdDeLa

~Min Length(High Bytes)



XdEeLa

~Max Length(Low Bytes)



XdFeLa

~Max Length(High Bytes)

Setting steps: **Reference: Appendix, 10.3.12 Example - Set 2D Code Reading Length**

8.37 Pharma Code(One-Track)

8.37.1 Pharma Code(One-Track)



UaNdAb

Allow

UaNdQa

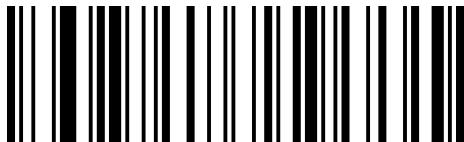
***Forbid**

8.38 Codablock A Code

8.38.1 Codablock A Code



SaldVa

Allow

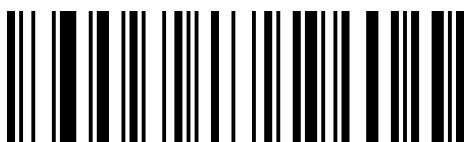
SaldLa

***Forbid**

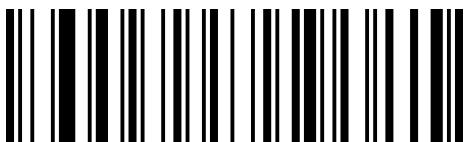
8.38.2 Codablock A Code Reading Length Setting

The default Codablock A Code read bits are 1-255.

The scanner can be configured to read only Codablock A Code barcodes with length between (inclusive) minimum length (1-255) and maximum length (1-255).



XdAdLa

~Min Length

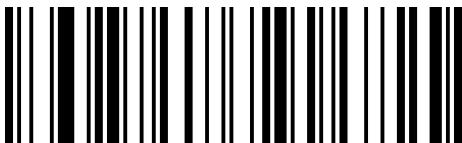
XdBdLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.12 Example - Set 2D Code Reading Length**

8.39 Codablock F Code

8.39.1 Codablock F Code



SaldWa

Allow

SaldMa

***Forbid**

8.39.2 Codablock F Code Reading Length Setting

The default Codablock F Code read bits are 1-2048.

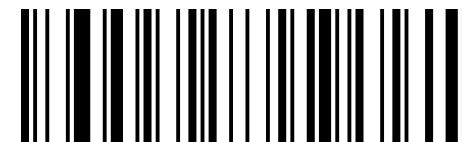
The scanner can be configured to read only Codablock F Code barcodes with length between (inclusive) minimum length (1-2048) and maximum length (1-2048).

Minimum read length = minimum length high bytes * 256+ minimum length low bytes

Maximum read length = Maximum length high bytes * 256+ Maximum length low bytes



XdCdLa

~Min Length(Low Bytes)

XdDdLa

~Min Length(High Bytes)

XdEdLa

~Max Length(Low Bytes)

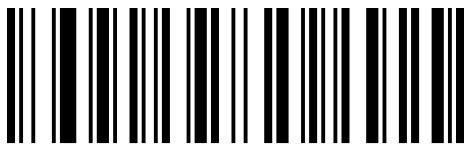
XdFdLa

~Max Length(High Bytes)

Setting steps: **Reference: Appendix, 10.3.12 Example - Set 2D Code Reading Length**

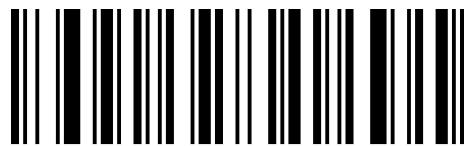
8.40 Code16K

8.40.1 Code16K



WaMbXa

Allow



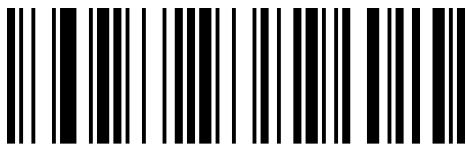
WaMbNa

*Forbid

8.40.2 Code16K Reading Length Setting

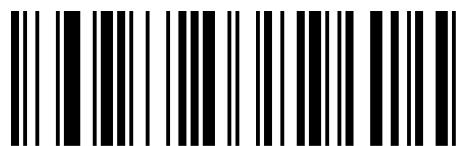
The default Code16K read bits are 1-160.

The scanner can be configured to read only Code16K Code barcodes with length between (inclusive) minimum length (1-160) and maximum length (1-160).



YdScLa

~Min Length



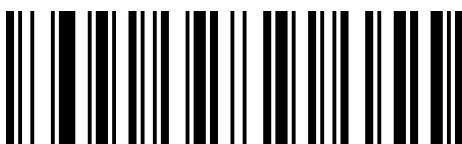
YdTcLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.12 Example - Set 2D Code Reading Length**

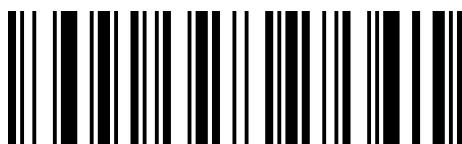
8.41 Code49

8.41.1 Code49



WaMbWa

Allow



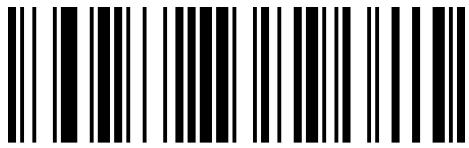
WaMbMa

*Forbid

8.41.2 Code49 Reading Length Setting

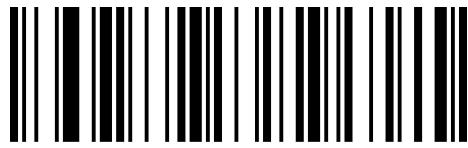
The default Code49 read bits are 1-81.

The scanner can be configured to read only Code49 Code barcodes with length between (inclusive) minimum length (1-81) and maximum length (1-81).



YdUcLa

~Min Length



YdVcLa

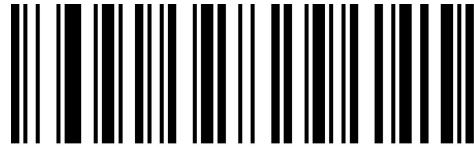
~Max Length

8.42 Dot Code



WaMbBb

Allow



WaMbRa

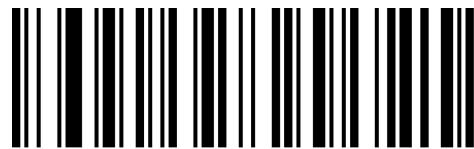
***Forbid**

8.43 Grid Matrix



WaMbAb

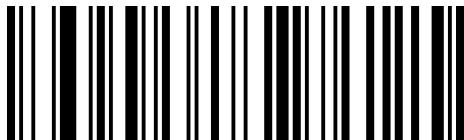
Allow



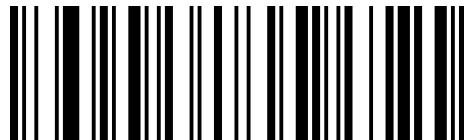
WaMbQa

***Forbid**

8.44 GS1 DataBar 14 (RSS-14)



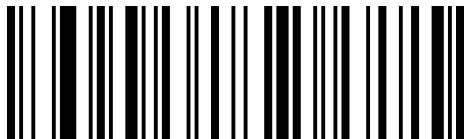
QaAbYa

***Allow**

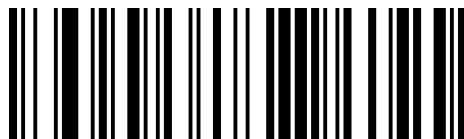
QaAbOa

Forbid

8.45 GS1 DataBar Limited(RSS-Limited)



QaAbZa

***Allow**

QaAbPa

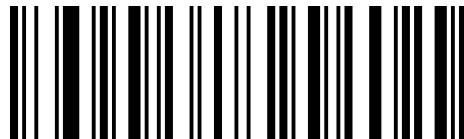
Forbid

8.46 GS1 DataBar Expanded(RSS-Expanded)

8.46.1 GS1 DataBar Expanded(RSS-Expanded)



QaAbAb

***Allow**

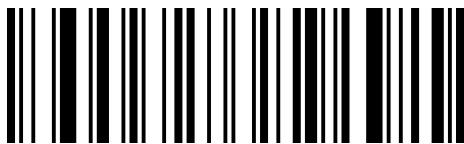
QaAbQa

Forbid

8.46.2 GS1 DataBar Expanded(RSS-Expanded) Reading Length Setting

The default GS1 DataBar Expanded(RSS-Expanded) read bits are 4-74.

The scanner can be configured to read only GS1 DataBar Expanded(RSS-Expanded) barcodes with length between (inclusive) minimum length (4-74) and maximum length (4-74).



XdIcLa

~Min Length

XdJcLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.12 Example - Set 1D Code Reading Length**

8.47 GS1 Composite Code

8.47.1 GS1 Composite Code



RaUcBb

Allow

RaUcRa

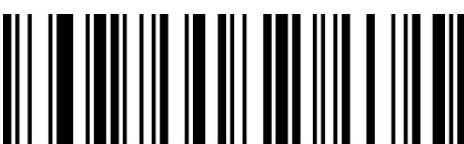
***Forbid**

Note: GS1 Composite Code supports multiple types of composite code, Contains Omnidirectional, Truncated, Stacked, Stacked Omnidirectional, limited, Expanded, Expanded Stacked, GS1-128, UPC, EAN.

8.47.2 GS1-128 Composite

**GS1-128 Composite ON*****GS1-128 Composite OFF**

8.47.3 UPC Composite



YaNbZa

UPC Composite ON

YaNbPa

UPC Composite OFF

Note: UPC Composite is a category of GS1 Composite Code. UPC Composite and UPC (EAN/UPC) barcode are mutually exclusive. EAN/UPC code is automatically disabled when UPC Composite barcode is enabled.

8.47.4 GS1 Composite Code Reading Length Setting

The default GS1 Composite Code read bits are 1-2435.

The scanner can be configured to read only GS1 Composite Code barcodes with length between (inclusive) minimum length (1-2435) and maximum length (1-2435).

Minimum read length = minimum length high bytes * 256+ minimum length low bytes

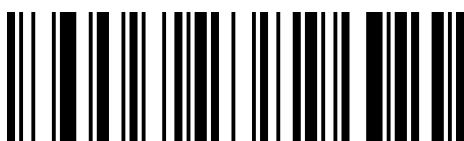
Maximum read length = Maximum length high bytes * 256+ Maximum length low bytes



XdKcLa

~Min Length(Low Bytes)

XdLcLa

~Min Length(High Bytes)

XdMcLa

~Max Length(Low Bytes)

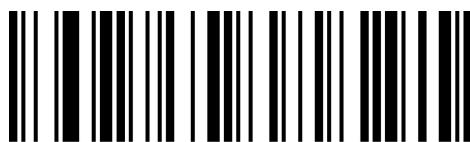
XdNcLa

~Max Length(High Bytes)

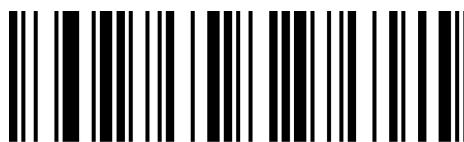
Setting steps: **Reference: Appendix, 10.3.12 Example - Set 2D Code Reading Length**

8.48 TLC 39 Code

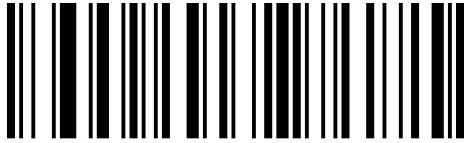
8.48.1 TLC 39 Code



Ya0bCb



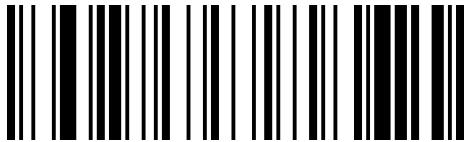
Ya0bSa

Allow***Forbid****8.48.2 TLC 39 Code Forced Additional**

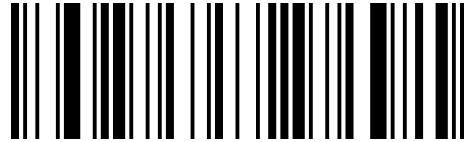
XaWdYa

Allow

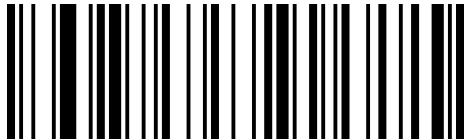
XaWdOa

Forbid*8.49 OCR****8.49.1 OCR**

SaBdCb

Allow

SaBdSa

Forbid*8.49.2 ID/Passport OCR**

SaBdWa

Allow

SaBdMa

***Forbid**

8.49.3 OCR Check Setting



TaDeBb

OCR Passport Checksum Ignore Enable



TaDeRa

*OCR Passport Checksum Ignore Disable

8.50 China Post Code

8.50.1 China Post Code



QaZaBb

Allow



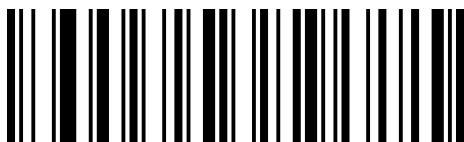
QaZaRa

*Forbid

8.50.2 China Post Code Reading Length Setting

The default China Post Code read bits are 2-80.

The scanner can be configured to read only China Post Code barcodes with length between (inclusive) minimum length (2-80) and maximum length (2-80).



XdOcLa

~Min Length



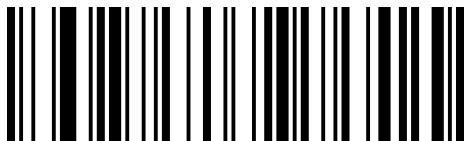
XdPcLa

~Max Length

Setting steps: **Reference: Appendix, 10.3.11 Example - Set 1D Code Reading Length**

8.51 Korea Post

8.51.1 Korea Post



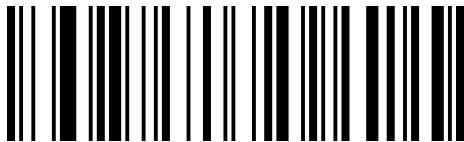
SaFdVa

Allow

SaFdLa

***Forbid**

8.51.2 Korea Post Reverse Output Setting



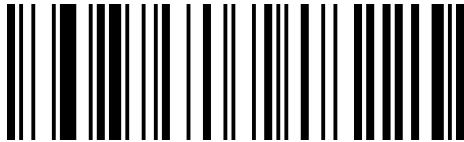
SaFdXa

***Positive sequence output**

SaFdNa

Reverse output

8.51.3 Korea Post Check Character Setting



SaFdAb

Open Check

SaFdQa

***Close Check**

8.51.4 Korea Post Reading Length Setting

The default Korea Post Code read bits are 2-80.

The scanner can be configured to read only Korea Post Code barcodes with length between (inclusive) minimum length (2-80) and maximum length (2-80).



XdQcLa

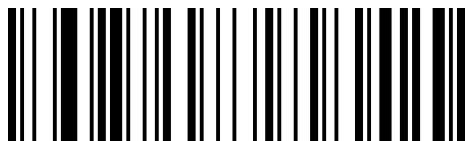
~Min Length

XdRcLa

~Max Length

8.52 Australian Post

8.52.1 Australian Post



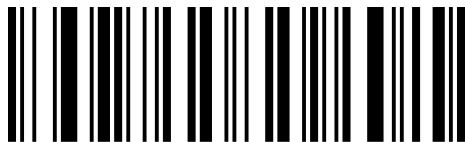
SaGdCb

Allow

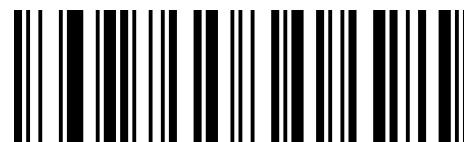
SaGdSa

***Forbid**

8.52.2 Australian Post Error Correction Bit Setting



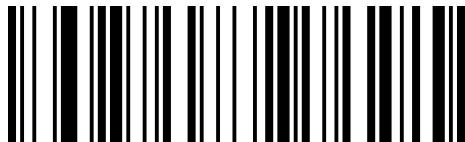
YaTbXa

Allow

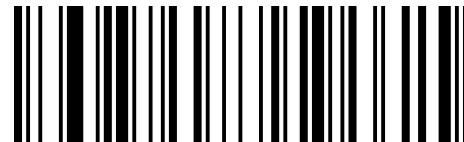
YaTbNa

***Forbid**

8.53 British Post



SaGdVa

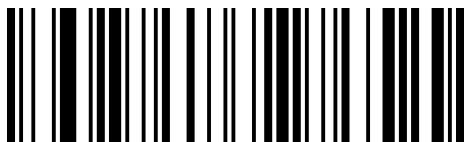
Allow

SaGdLa

***Forbid**

Note: British Post also called Royal Mail,CBC(Customer Bar Code),RM4SCC(Royal Mail 4-State Customer Code), UK Postal Code.

8.54 USPS Intelligent Mail



SaFdYa

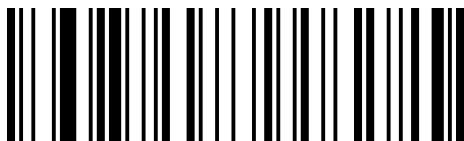
Allow

SaFdOa

***Forbid**

Note: USPS Intelligent Mail also called OneCode, USPS 4-State Customer Barcode.

8.55 Japanese Post



SaGdBb

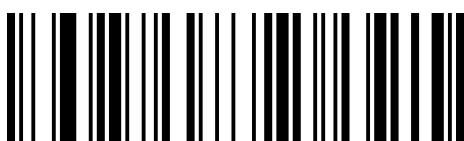
Allow

SaGdRa

***Forbid**

8.56 Planet Code

8.56.1 Planet Code



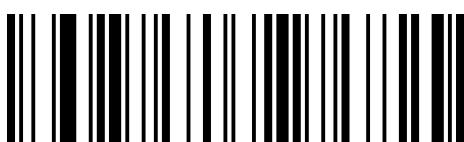
SaGdZa

Allow

SaGdPa

***Forbid**

8.56.2 Planet Code Check Character Setting



SaFdYa

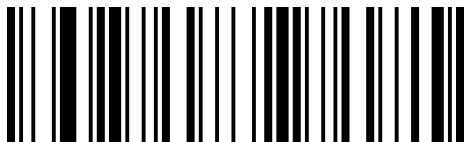


SaFdOa

Transfer***Not Transfer**

8.57 Postnet

8.57.1 Postnet



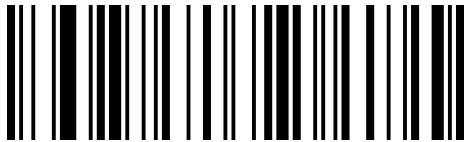
SaGdYa

Allow

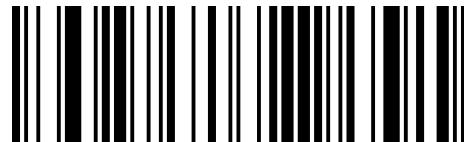
SaGdOa

***Forbid**

8.57.2 Postnet Check Character Setting



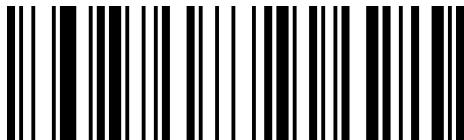
SaFdZa

Transfer

SaFdPa

***Not Transfer**

8.58 UPU 4-State



SaGdWa

Allow

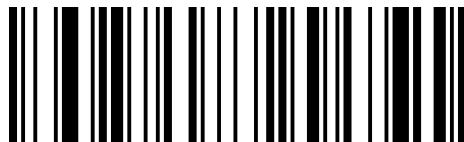
SaGdMa

***Forbid**

8.59 KIX Code



SaGdAb

Allow

SaGdQa

***Forbid**

9 Serial Port Instruction

9.1 Brief Introduction

Users can settle the module by sending instruction from mainframe.

Please make sure communicate parameter complete matching between module and mainframe.

Module default serial communicate parameter: **Baud rate 9600bps; No check; 8 bit data; 1 bit stop bit; No flow control.**

9.2 Instruction Feedback Value

When the instruction is sent to the scanner, the scanner will return the corresponding string indicating the success or failure of the instruction.

Success Return: 0x06

Fail Return: 0x15

9.3 Trigger Instruction

Enable scan (hexadecimal) : 16 42 65 52 65 51 62 2E

Disable scan (hexadecimal) : 16 42 65 52 65 52 62 2E

Note: Please refer to "**10.7 Appendix 7 Serial Port Instruction**" for detailed instructions, instruction trigger is applicable to manual mode.

9.4 ACK/NAK Feedback Value



WaFbMa

*Allow

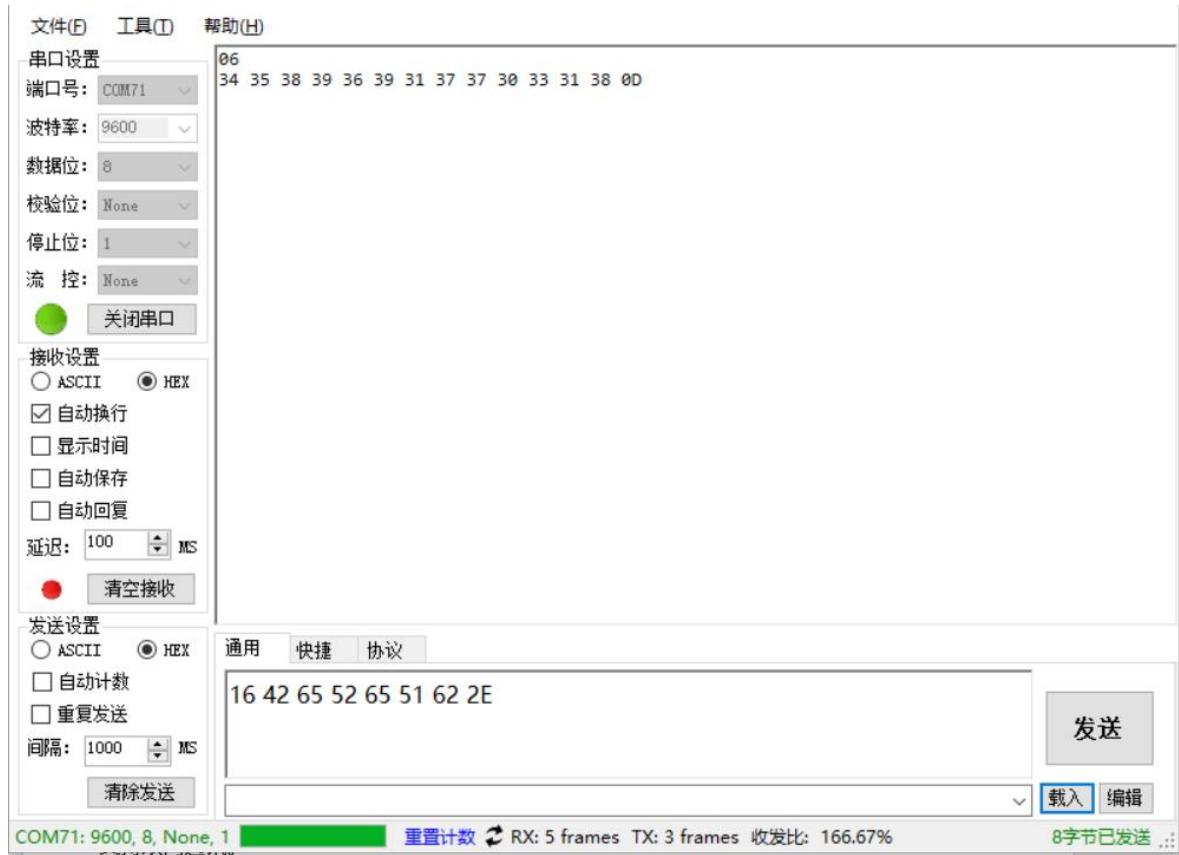


WaFbWa

*Forbid

9.5 Instruction Sending Example

Send the hexadecimal command to control the scan, confirm the serial port protocol settings, enter the corresponding command in the command send input box to send.

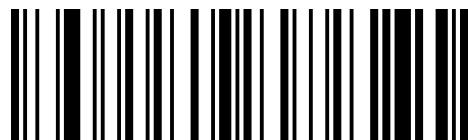


Note: Please refer to **10.7 Appendix 7 Serial Port Instruction** for detailed instructions.

10 Appendix

10.1 Appendix 1 Enter/Exit Data Code Setting Mode

Before configuring the prefix and suffix, code length, or other variable values, you need to scan the Enter/Exit data code setting mode to enter the data code setting mode. After entering the data code setting mode, only the variable length configuration code with ~ symbol can be scanned. To set other configuration codes, exit the data code setting mode first.

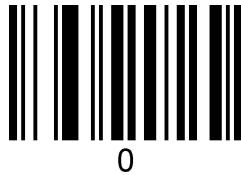


BeReGe

Enter/Exit Data Code Setting Mode

10.2 Appendix 2 Data Code

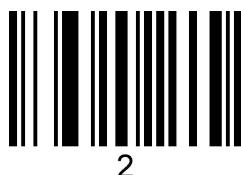
The data code is used to configure prefix and suffix, code length, or other variable values. When using the data code, you need to use the Appendix 1- Enter/Exit Data code Setting Mode.



0



1



2



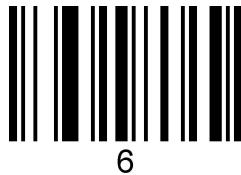
3



4



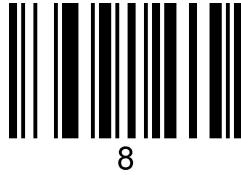
5



6



7



8



9

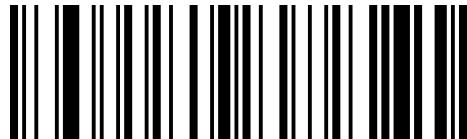
10.3 Appendix 3 Examples of Custom Parameters

10.3.1 Example - Custom Button Timeout

For example, set the timeout period of a manual button to 10S.

First confirm that 10S is 50 200MS units, that is, the data code should be set to 50 and the three-digit decimal value to 050.

Step 1: Scan the "Enter/Exit Data code setting mode" setting code in the appendix (buzzer sounds 3 times);



BeReGe

Enter/Exit Data Code Setting Mode

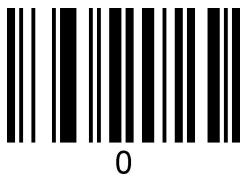
Step 2: Scan the "~ Custom Button Timeout" setting code;



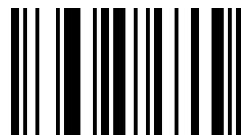
WdZcLa

~Custom Button Timeout

Step 3: Scan the setting codes 0, 5, and 0 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



0

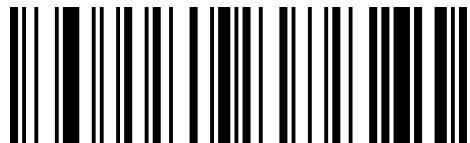


5



0

Step 4: Scan the "Enter/Exit Data code setting mode" setting code in the appendix to complete the setting (buzzer sounds 3 times).



BeReGe

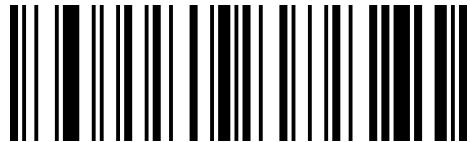
Enter/Exit Data Code Setting Mode

10.3.2 Example - Add Prefix and Suffix Setting

For example, add a custom XY prefix to all bar code types.

First, check the three-digit decimal values of XY corresponding to the character to be prefixed in Appendix-ASCII Code Table: 088,089.

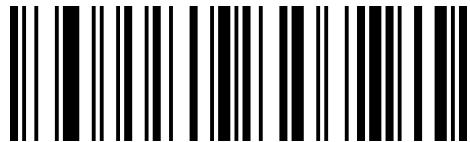
Step 1: Scan the "Enter/Exit Data code setting mode" setting code in the appendix (buzzer sounds 3 times);



BeReGe

Enter/Exit Data Code Setting Mode

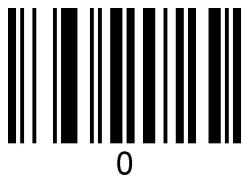
Step 2: Scan the "~ Custom Prefix Setting" setting code;



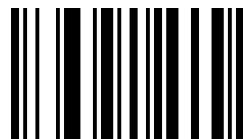
BeReTd

~Custom Prefix Setting

Step 3: Scan the setting codes 0, 8, and 8 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



0



8



8

Step 4: Scan the "~ Custom Prefix Setting" setting code;



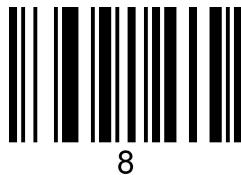
BeReTd

~Custom Prefix Setting

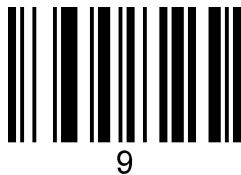
Step 5: Scan the setting codes 0, 8, and 9 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



0



8



9

Step 6: Scan the "Enter/Exit Data code setting mode" setting code in the appendix to complete the setting (buzzer sounds 3 times).



BeReGe

Enter/Exit Data Code Setting Mode

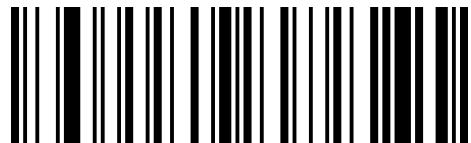
Note: You can set up to 10 custom prefixes, repeat steps 2 and 3, you can set multiple prefixes, after each prefix is set automatically switch to the next prefix settings (from left to right 1-10), after setting the 10th automatically jump to the first prefix settings.

10.3.3 Example - Add Prefix/Suffix Based on Bar Code Type

For example, add a custom suffix of X to Code 128.

First, check the three-digit decimal values of X corresponding to the character to be prefixed in Appendix-ASCII Code Table: 088

Step 1: Scan the "Enter/Exit Data code setting mode" setting code in the appendix (buzzer sounds 3 times);



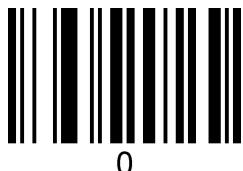
BeReGe

Enter/Exit Data Code Setting Mode

Step 2: Scan the "Setting Code 128 Prefix/Suffix" setting code;

**Setting Code 128 Prefix/Suffix**

Step 3: Scan the setting codes 0, 8, and 8 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



0



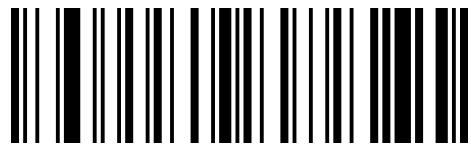
8



8

Note: If the number is set to 0,0,0, then the prefix/suffix is not set. You can also clear the prefix/suffix by setting it to 0,0,0. In groups of three (buzzers 1,2,3 times)

Step 4: Scan the "Enter/Exit Data code setting mode" setting code in the appendix to complete the setting (buzzer sounds 3 times).



BeReGe

Enter/Exit Data Code Setting Mode

Step 5: Set custom characters to suffix.



Setting to Suffix

10.3.4 Example - Hidden Character Settings

For example, hide the first 3 characters of the bar code.

Example Bar code: 1616abcd



The original bar code content is: 1616abcd

Set the output to 6abcd after the header three characters are hidden.

Step 1: Scan the "Enter/Exit Data code setting mode" setting code in the appendix (buzzer sounds 3 times);



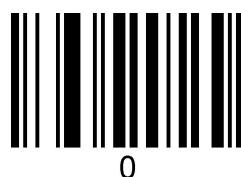
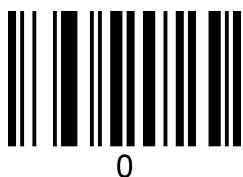
BeReGe

Enter/Exit Data Code Setting Mode

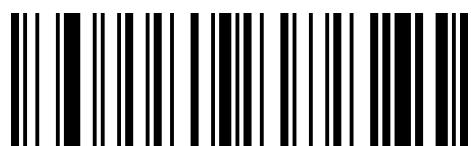
Step 2: Scan the “Sets Header Data Hiding Bits ” setting code;

**~Header Data Hiding Bits**

Step 3: Scan the setting codes 0, 0, and 3 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



Step 4: Scan the "Enter/Exit Data code setting mode" setting code in the appendix to complete the setting (buzzer sounds 3 times).



BeReGe

Enter/Exit Data Code Setting Mode

Step 5: Scan the setting code of "Enable Hidden Header Character";



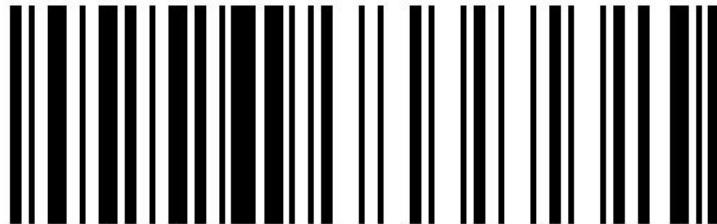
WaQbCb

Allow Hidden Header Character

10.3.5 Example - Insert Custom Data

For example, insert the character X after the fourth digit of the sample barcode.

First, check the Appendix 6 ASCII. The three-digit decimal value corresponding to the insert position "4" is 004, and the three-digit decimal value corresponding to the insert character "X" is 088.



1616abcd

The original bar code content is: 1616abcd

After the setting is complete, output: 1616Xabcd

Step 1: Scan the "Enter/Exit Data code setting mode" setting code in the appendix (buzzer sounds 3 times);



BeReGe

Enter/Exit Data Code Setting Mode

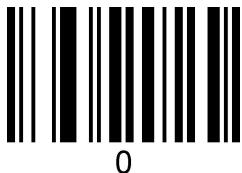
Step 2: Scan the "Insert Custom Data Position" setting code;



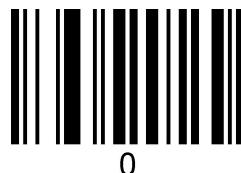
YdFcLa

~Insert Custom Data Position

Step 3: Scan the setting codes 0, 0, and 4 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



0



0



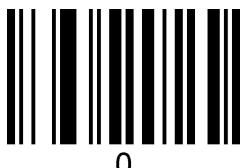
4

Step 4: Scan the "Sets the Inserted Custom Character " setting code;

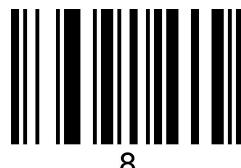
**BeReYc**

~Sets the Inserted Custom Character

Step 5: Scan the setting codes 0, 8, and 8 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



0

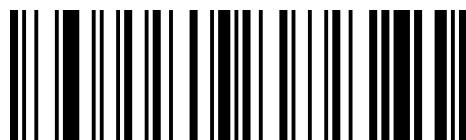


8



8

Step 6: Scan the "Enter/Exit Data code setting mode" setting code in the appendix to complete the setting (buzzer sounds 3 times).

**BeReGe**

Enter/Exit Data Code Setting Mode

Step 7: Scan the "Display the Inserted Character Data " setting code;

**WaQbYb**

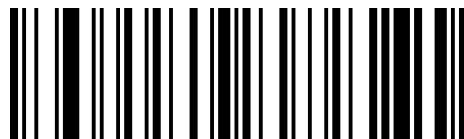
Display the Inserted Character Data

10.3.6 Example - Hidden Header Characters Based on the Bar Code Type: Hidden the

first three UPC-E characters

First, check the three-digit decimal value of the character to be hidden in Appendix 6 ASCII is 003.

Step 1: Scan the "Enter/Exit Data code setting mode" setting code in the appendix (buzzer sounds 3 times);



BeReGe

Enter/Exit Data Code Setting Mode

Step 2: Scan the "UPC-E Header Data Hiding Bits" setting code;



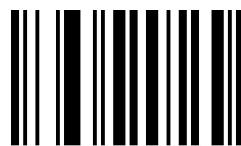
BeWaLa

UPC-E Header Data Hiding Bits

Step 3: Scan the setting codes 0, 0, and 3 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



0



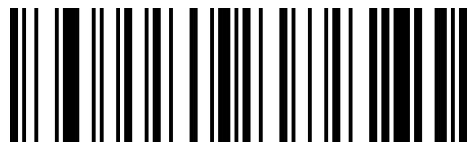
0



3

Note: If the number is set to 0,0,0, it means that the character is not hidden, and you can also clear the hidden setting by setting it to 0,0,0. In groups of three (buzzers 1,2,3 times)

Step 4: Scan the "Enter/Exit Data code setting mode" setting code in the appendix to complete the setting (buzzer sounds 3 times).



BeReGe

Enter/Exit Data Code Setting Mode

10.3.7 Example - Hidden Middle Characters Based on the Bar Code Type: Hidden the middle 2 characters of UPC-E starting from the third digit

First, check the Appendix 6 ASCII to see that starting from the third digit, the corresponding three-digit decimal value is 003;The hidden 2-bit character corresponds to a three-digit decimal value of 002.

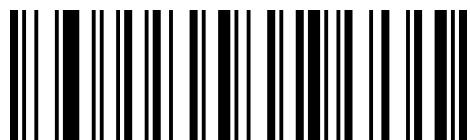
Step 1: Scan the "Enter/Exit Data code setting mode" setting code in the appendix (buzzer sounds 3 times);



BeReGe

Enter/Exit Data Code Setting Mode

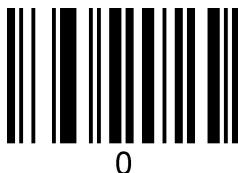
Step 2: Scan the “UPC-E Start Bit of Hidden Middle Data” setting code;



BeQbLa

UPC-E Start Bit of Hidden Middle Data

Step 3: Scan the setting codes 0, 0, and 3 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



0



0



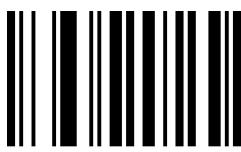
3

Step 4: Scan the "UPC-E Middle Data Hiding Bits" setting code;

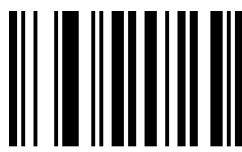


UPC-E Middle Data Hiding Bits

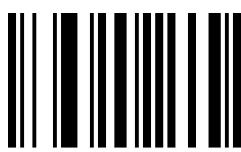
Step 5: Scan the setting codes 0, 0, and 2 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



0



0



2

Step 6: Scan the "Enter/Exit Data code setting mode" setting code in the appendix to complete the setting (buzzer sounds 3 times).



BeReGe

Enter/Exit Data Code Setting Mode

10.3.8 Example - Hidden Tail Characters Based on the Bar Code Type: Hidden the last three characters of UPC-E

First, check the three-digit decimal value of the character to be hidden in Appendix 6 ASCII is 003.

Step 1: Scan the "Enter/Exit Data code setting mode" setting code in the appendix (buzzer sounds 3 times);



BeReGe

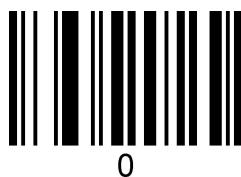
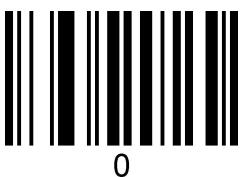
Enter/Exit Data Code Setting Mode

Step 2: Scan the "UPC-E Tail Data Hiding Bits" setting code;



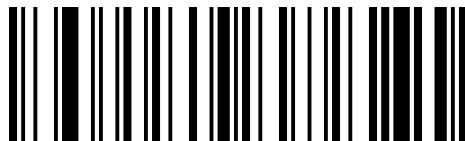
UPC-E Tail Data Hiding Bits

Step 3: Scan the setting codes 0, 0, and 3 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



Note: If the number is set to 0,0,0, it means that the character is not hidden, and you can also clear the hidden setting by setting it to 0,0,0. In groups of three (buzzers 1,2,3 times)

Step 4: Scan the "Enter/Exit Data code setting mode" setting code in the appendix to complete the setting (buzzer sounds 3 times).



Enter/Exit Data Code Setting Mode

10.3.9 Example - Character Replacement Setting

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

First, check in Appendix 6 ASCII that the three-digit decimal value corresponding to the replaced character "6" is 054, and the three-digit decimal value corresponding to the replacement character "X" is 088.



1616abcd

The original content of the barcode is: 1616abcd

After setting, output: 1X1Xabcd.

Step 1: Scan the "Enter/Exit Data code setting mode" setting code in the appendix (buzzer sounds 3 times);



BeReGe

Enter/Exit Data Code Setting Mode

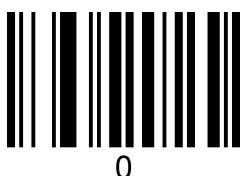
Step 2: Scan the “~The character to be replaced” setting code;



VdEeLa

~The character to be replaced

Step 3: Scan the setting codes 0, 5, and 4 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



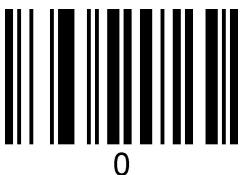
Step 4: Scan the “~The new character after replacement” setting code;



VdFeLa

~The new character after replacement

Step 5: Scan the setting codes 0, 8, and 8 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



Step 6: Scan the "Enter/Exit Data code setting mode" setting code in the appendix to complete the setting (buzzer sounds 3 times).



BeReGe

Enter/Exit Data Code Setting Mode

10.3.10 Example - Custom Function Key Prefix

For example, set Ctrl+Shift+Alt+E prefix.

First, through the Appendix 6 ASCII, the three-digit decimal value corresponding to the main key E is 069.

Step 1: Enable Function Key Prefix Setting

**Allow**

Step 2: Function key on and off



Ctrl On



Shift On



Alt On

Step 3: Custom main key

3.1 Scan the "Enter/Exit Data code setting mode" setting code in the appendix (buzzer sounds 3 times);



BeReGe

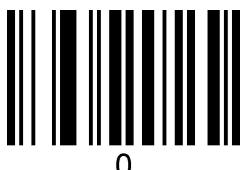
Enter/Exit Data Code Setting Mode

3.2 Scan the “~Custom main key” setting code;



~Custom main key

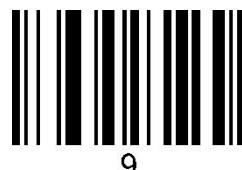
3.3 Scan the setting codes 0, 6, and 9 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



0



6



9

3.4 Scan the "Enter/Exit Data code setting mode" setting code in the appendix to complete the setting (buzzer sounds 3 times).



BeReGe

Enter/Exit Data Code Setting Mode

10.3.11 Example - Set 1D Code Reading Length

Note:1.If you want to set the code: minimum length > Maximum length: any length of the code can be decoded.

2. If you want to set the code: minimum length = maximum length, the decodable length of the code is fixed to the set value.
3. Some QR codes do not have high or low byte settings, you can also refer to this step.

For example, set the reading length of Code 128 to 6-15 bits.

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

Step 1: Scan the "Enter/Exit Data code setting mode" setting code in the appendix (buzzer sounds 3 times);



BeReGe

Enter/Exit Data Code Setting Mode

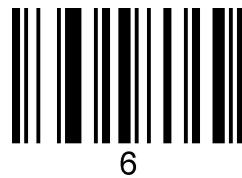
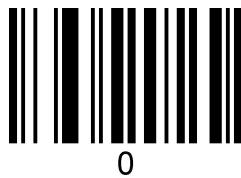
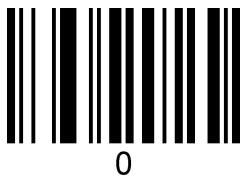
Step 2: Scan the "Minimum length of Code 128" setting code;



XdlbLa

~Min Length

Step 3: Scan the setting codes 0, 0, and 6 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



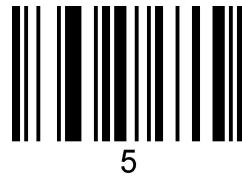
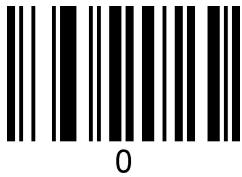
Step 4: Scan the "Max length of Code 128" setting code;



XdJbLa

~Max Length

Step 5: Scan the setting codes 0, 1, and 5 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



Step 6: Scan the "Enter/Exit Data code setting mode" setting code in the appendix to complete the setting (buzzer sounds 3 times).



BeReGe

Enter/Exit Data Code Setting Mode

10.3.12 Example - Set 2D Code Reading Length

Note:1. If you want to set the code: minimum length > Maximum length: any length of the code can be decoded.

2. If you want to set the code: minimum length = maximum length, the decodable length of the code is fixed to the set value.

For example: Set the QR Code reading length to 20-300 bits.

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

For example, when the maximum length of QR is 300, it is necessary to simply decompose the maximum length value before setting, and divide 300 into high bytes and low bytes, then the high byte is $300/256 = 1$ (integral division), and the low byte is $300-256=44$ (remainder). If the maximum length < 256, the high byte is 0.



XdYdLa

~Min Length(Low Bytes)



XdZdLa

~Min Length (High Bytes)



XdAeLa

~Max Length(Low Bytes)



XdBela

~Max Length(High Bytes)

Step 1: Scan the "Enter/Exit Data code setting mode" setting code in the appendix (buzzer sounds 3 times);



BeReGe

Enter/Exit Data Code Setting Mode

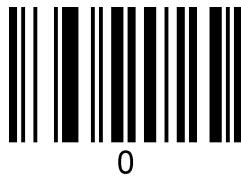
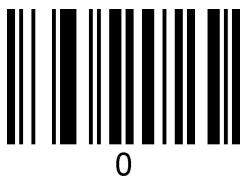
Step 2: Scan the “~Min length(High Bytes) of QR Code” setting code;



XdZdLa

~Min Length (High Bytes)

Step 3: Scan the setting codes 0, 0, and 0 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



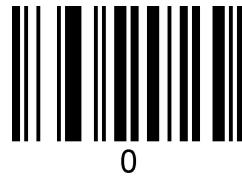
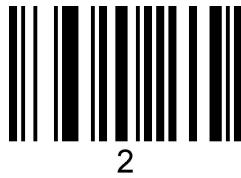
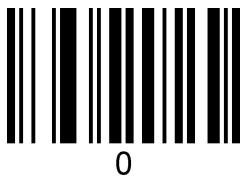
Step 4: Scan the “Mini length(Low Bytes) of QR Code” setting code;



XdYdLa

~Min Length(Low Bytes)

Step 5: Scan the setting codes 0, 2, and 0 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



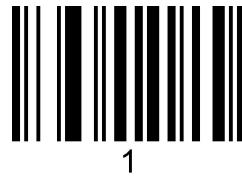
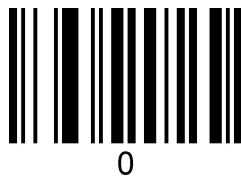
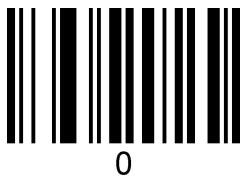
Step 6: Scan the “~Max length(High Bytes) of QR Code” setting code;



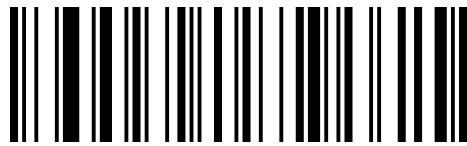
XdbeLa

~Max Length(High Bytes)

Step 7: Scan the setting codes 0, 0, and 1 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



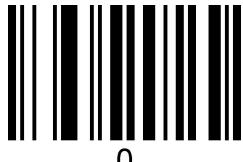
Step 8: Scan the “~Max length(Low Bytes) of QR Code” setting code;



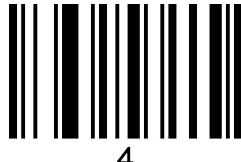
XdAeLa

~Max Length(Low Bytes)

Step 9: Scan the setting codes 0, 4, and 4 in Appendix 2 Data Code successively.(In groups of three, the buzzer sounds 1, 2, 3 respectively).



0



4



4

Step 10: Scan the "Enter/Exit Data code setting mode" setting code in the appendix to complete the setting (buzzer sounds 3 times).



BeReGe

Enter/Exit Data Code Setting Mode

10.4 Appendix 4 Code ID & AIM ID

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

23	MSI Plessey	K]Mm	0,1,2,3,5,6,7
24	Telepen	8]Bm	m: 0,1,2,4
25	Trioptic	e]X0	
26	BC412	}]X0	
27	QR code	U]Qm	m: 0-6
28	Micro QR	U]Qm	m: 0-6
29	Data Matrix	V]dm	m: 0-6
30	PDF417	N]Lm	m: 0,1,2
31	Micro PDF417	O]Lm	m: 0,1,2,3,4,5
32	Maxi Code	W]Um	m: 0-3
33	GS1 Composite Code	M / [/] / ...]e0	
34	OCR	X]om	m: 0-3
35	AztecCode	T]zm	m: 0-9,A-C
36	Hanxin	S]X0	
37	Pharma	s]X0	
38	Codablock A	v]Om	0,1,4,5,6
39	Codablock F	7]Om	0,1,4,5,6
40	Dot Code	c]tm	0-5
41	Grid Matrix	x]g0	
42	GS1 Omnidirectional	Databar M]e0	
43	GS1 Databar Limited	M]e0	
44	GS1 Databar Expanded	M]e0	
45	OCR	X]o2	
46	HongKong 2 of 5(China Post)	P]X0	

47	Korea Post	R	JX0
48	Australian Post	i	JX0
49	British Post	J	JX0
50	USPS Intelligent Mail	o	JX0
51	Japanese Post		JX0
52	Planet Code	n	JX0
53	Postnet Code	q	JX0
54	UPU 4-State	p	JX0
55	KIX Code	m	JX0

10.5 Appendix 5 Control Character Table

Hexadecimal	ASCII (Decimalism)	Corresponding Key Value (Function Key Operation)	Corresponding Key Value (Ctrl-1)	Corresponding Key Value (Ctrl-2)
00	00	Null	Ctrl+2	Ctrl+@
01	01	Keypad Enter	Ctrl+A	Ctrl+A
02	02	Caps lock	Ctrl+B	Ctrl+B
03	03	Right Arrow	Ctrl+C	Ctrl+C
04	04	Up Arrow	Ctrl+D	Ctrl+D
05	05	Null	Ctrl+E	Ctrl+E
06	06	Null	Ctrl+F	Ctrl+F
07	07	Enter	Ctrl+G	Ctrl+G
08	08	Left Arrow	Ctrl+H	Backspace
09	09	Horizontal Tab	Ctrl+I	Tab
0A	10	Down Arrow	Ctrl+J	Enter
0B	11	Vertical Tab	Ctrl+K	Ctrl+K
0C	12	Backspace	Ctrl+L	Ctrl+L
0D	13	Enter	Ctrl+M	Enter
0E	14	Insert	Ctrl+N	Ctrl+N
0F	15	Esc	Ctrl+O	Ctrl+O
10	16	F11	Ctrl+P	Ctrl+P
11	17	Home	Ctrl+Q	Ctrl+Q
12	18	Print Screen	Ctrl+R	Ctrl+R
13	19	Delete	Ctrl+S	Ctrl+S
14	20	tab+shift	Ctrl+T	Ctrl+T
15	21	F12	Ctrl+U	Ctrl+U
16	22	F1	Ctrl+V	Ctrl+V
17	23	F2	Ctrl+W	Ctrl+W
18	24	F3	Ctrl+X	Ctrl+X
19	25	F4	Ctrl+Y	Ctrl+Y
1A	26	F5	Ctrl+Z	Ctrl+Z
1B	27	F6	Ctrl+[Ctrl+[
1C	28	F7	Ctrl+\	Ctrl+\
1D	29	F8	Ctrl+]	Ctrl+]
1E	30	F9	Ctrl+6	Ctrl+^
1F	31	F10	Ctrl+-	Ctrl+_

10.6 Appendix 6 ASCII

Hexadecimal	ASCII(Decimalism)	Character
00	00	NUL (Null char.)
01	01	SOH (Start of Header)
02	02	STX (Start of Text)
03	03	ETX (End of Text)
04	04	EOT (End of Transmission)
05	05	ENQ (Enquiry)
06	06	ACK (Acknowledgment)
07	07	BEL (Bell)
08	08	BS (Backspace)
09	09	HT (Horizontal Tab)
0A	10	LF (Line Feed)
0B	11	VT (Vertical Tab)
0C	12	FF (Form Feed)
0D	13	CR (Carriage Return)
0E	14	SO (Shift Out)
0F	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1) (XON)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3) (XOFF)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)
1A	26	SUB (Substitute)
1B	27	ESC (Escape)
1C	28	FS (File Separator)
1D	29	GS (Group Separator)
1E	30	RS (Request to Send)
1F	31	US (Unit Separator)
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)

23	35	# (Number Sign)
24	36	\$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	((Right / Closing Parenthesis)
29	41) (Right / Closing Parenthesis)
2A	42	* (Asterisk)
2B	43	+ (Plus)
2C	44	, (Comma)
2D	45	- (Minus / Dash)
2E	46	. (Dot)
2F	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3A	58	: (Colon)
3B	59	; (Semi-colon)
3C	60	< (Less Than)
3D	61	= (Equal Sign)
3E	62	> (Greater Than)
3F	63	? (Question Mark)
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4A	74	J
4B	75	K

4C	76	L
4D	77	M
4E	78	N
4F	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5A	90	Z
5B	91	[(Left / Opening Bracket)
5C	92	\ (Back Slash)
5D	93] (Right / Closing Bracket)
5E	94	^ (Caret / Circumflex)
5F	95	_ (Underscore)
60	96	' (Grave Accent)
61	97	a
62	98	b
63	99	c
64	100	d
65	101	e
66	102	f
67	103	g
68	104	h
69	105	i
6A	106	j
6B	107	k
6C	108	l
6D	109	m
6E	110	n
6F	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t

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

10.7 Appendix 7 Serial Port Instruction

Function	Setting code	Instruction (HEX)
1. Scan Control - Turn on scan	N/A	16 42 65 52 65 51 62 2E
2. Scan Control - Turn off scan	N/A	16 42 65 52 65 52 62 2E
3. Setup code on	RaZdNa	16 52 61 5A 64 4E 61 2E
4. Setup code off	RaZdXa	16 52 61 5A 64 58 61 2E
5. Send setup code on	WaZaBb	16 57 61 5A 61 42 62 2E
6. Send setup code off	WaZaRa	16 57 61 5A 61 52 61 2E
7. Factory default setting	BeQeCe	16 42 65 51 65 43 65 2E
8. Save user default setting	UaQdWa	16 55 61 51 64 57 61 2E
9. Restore user default setting	BeQeEe	16 42 65 51 65 45 65 2E
10. Read Version Information	BeReCd	16 42 65 52 65 43 64 2E
11. Open all prompts tone	WaZaCb	16 57 61 5A 61 43 62 2E
12. Close all prompts tone	WaZaSa	16 57 61 5A 61 53 61 2E
13. Starting Up Prompt On	RaOdNa	16 52 61 4F 64 4E 61 2E
14. Starting Up Prompt Off	RaOdXa	16 52 61 4F 64 58 61 2E
15. Setup Code Prompt On	WaZaZa	16 57 61 5A 61 5A 61 2E
16. Setup Code Prompt Off	WaZaPa	16 57 61 5A 61 50 61 2E
17. Decoding Successful Prompt Tone On	RaDeXa	16 52 61 44 65 58 61 2E
18. Decoding Successful Prompt Tone Off	RaDeNa	16 52 61 44 65 4E 61 2E

19. Decoding Successful Prompt Tone Short	RaCeZa	16 52 61 43 65 5A 61 2E
20. Decoding Successful Prompt Tone Normal	RaCePa	16 52 61 43 65 50 61 2E
21. Decoding Successful Prompt Tone Frequency-Low 1.6KHZ	LbDeUb	16 4C 62 44 65 55 62 2E
22. Decoding Successful Prompt Tone Frequency-lower middle-2.0KHZ	LbDeEc	16 4C 62 44 65 45 63 2E
23. Decoding Successful Prompt Tone Frequency-Middle-2.7KHZ	LbDeAb	16 4C 62 44 65 41 62 2E
24. Decoding Successful Prompt Tone Frequency-High-4.2KHZ	LbDeKb	16 4C 62 44 65 4B 62 2E
25. Decoding Successful Prompt Tone Volume OFF	BbDePb	16 42 62 44 65 50 62 2E
26. Decoding Successful Prompt Tone Volume Low	BbDeFb	16 42 62 44 65 46 62 2E
27. Decoding Successful Prompt Tone Volume Middle	BbDeVa	16 42 62 44 65 56 61 2E
28. Decoding Successful Prompt Tone Volume High	BbDeLa	16 42 62 44 65 4C 61 2E
29. Error Alarm Tone-Low	GbZaNa	16 47 62 5A 61 4E 61 2E
30. Error Alarm Tone-Middle	GbZaXa	16 47 62 5A 61 58 61 2E
31. Error Alarm Tone-High	GbZaHb	16 47 62 5A 61 48 62 2E
32. Lighting-High	GbWaRb	16 47 62 57 61 52 62 2E

33. Lighting-Middle	GbWaHb	16 47 62 57 61 48 62 2E
34. Lighting-Lower	GbWaXa	16 47 62 57 61 58 61 2E
35. Lighting-Off	GbWaNa	16 47 62 57 61 4E 61 2E
36. Lighting Status-Change Mode	XaEeRa	16 58 61 45 65 52 61 2E
37. Lighting Status-Keep On Mode	XaEeBb	16 58 61 45 65 42 62 2E
38. Collimation-On	GbWaZa	16 47 62 57 61 5A 61 2E
39. Collimation-Off	GbWaPa	16 47 62 57 61 50 61 2E
40. Collimation-Always on	GbWaJb	16 47 62 57 61 4A 62 2E
41. Collimation-Flash	GbWaTb	16 47 62 57 61 54 62 2E
42. Decoding Successful Prompt Light On	RaBeYa	16 52 61 42 65 59 61 2E
43. Decoding Successful Prompt Light Off	RaBeOa	16 52 61 42 65 4F 61 2E
44. Lighting-In standby mode-OFF, Working mode-ON	WaAbRa	16 57 61 41 62 52 61 2E
45. Lighting-In standby mode-ON, Working mode-OFF	WaAbBb	16 57 61 41 62 42 62 2E
46. Low Power Mode On	WaQbWa	16 57 61 51 62 57 61 2E
47. Low Power Mode Off	WaQbMa	16 57 61 51 62 4D 61 2E
48. CH UTF-8/GB2312	OdPbLa	16 4F 64 50 62 4C 61 2E
49. CH BIG 5	OdPbIbc	16 4F 64 50 62 49 62 63 2E
50. BIG 5 BIG 5	OdPbPb	16 4F 64 50 62 50 62 2E
51. CH Shift-JIS	OdPbJbc	16 4F 64 50 62 4A 62 63 2E

52. JP UTF-8/GB2312	OdPbKbc	16 4F 64 50 62 4B 62 63 2E
53. JP Shift-JIS	OdPbVa	16 4F 64 50 62 56 61 2E
54. Korean CP949	OdPbFb	16 4F 64 50 62 46 62 2E
55. Thai CP874	OdPbGbc	16 4F 64 50 62 47 62 63 2E
56. Russia KOI8-R	OdPbHbc	16 4F 64 50 62 48 62 63 2E
57. Russia CP1251	OdPbRbc	16 4F 64 50 62 11 52 62 63 2E
58. European single byte characters	OdPbYac	16 4F 64 50 62 59 61 63 2E
59. European double-byte characters	OdPbNbc	16 4F 64 50 62 4E 62 63 2E
60. Data Output Format-Codepage	GbBbVa	16 47 62 42 62 56 61 2E
61. Data Output Format-Unicode	GbBbFb	16 47 62 42 62 46 62 2E
62. Data Output Format-UTF-8	GbBbPb	16 47 62 42 62 50 62 2E
63. Data Output Format-Original data	GbBbLa	16 47 62 42 62 4C 61 2E
64. Window	GbAbNa	16 47 62 41 62 4E 61 2E
65. Linux1	GbAbXa	16 47 62 41 62 58 61 2E
66. Linux2	GbAbHb	16 47 62 41 62 48 62 2E
67. Positive Image Recognition	CbQdRa	16 43 62 51 64 52 61 2E
68. Inverting image recognition	CbQdLb	16 43 62 51 64 4C 62 2E
69. Positive and inverted image recognition	CbQdBb	16 43 62 51 64 42 62 2E
70. Full Width Area Decoding	ObCcLa	16 4F 62 43 63 4C 61 2E
71. Central Area Decoding	ObCcPb	16 4F 62 43 63 50 62 2E

72. Center Mode Decoding	ObCcZb	16 4F 62 43 63 5A 62 2E
73. 40% Center Area	BeReTb	16 42 65 52 65 54 62 2E
74. 50% Center Area	BeReUb	16 42 65 52 65 55 62 2E
75. 60% Center Area	BeReVb	16 42 65 52 65 56 62 2E
76. 80% Center Area	BeReWb	16 42 65 52 65 57 62 2E
77. Allow NR	SaCbCb	16 53 61 43 62 43 62 2E
78. Forbid NR	SaCbSa	16 53 61 43 62 53 61 2E
79. Allow QR URL	WaQbPa	16 57 61 51 62 50 61 2E
80. Forbid QR URL	WaQbZa	16 57 61 51 62 5A 61 2E
81. Allow Invoice Function	WaBbXa	16 57 61 42 62 58 61 2E
82. Forbid Invoice Function	WaBbNa	16 57 61 42 62 4E 61 2E
83. USB-KBW	VbZcWag	16 56 62 5A 63 57 61 67 2E
84. English	JdCcTc	16 4A 64 43 63 54 63 2E
85. Greek	JdCcLbc	16 4A 64 43 63 4C 62 63 2E
86. Netherlands-Dutch	JdCcGbc	16 4A 64 43 63 47 62 63 2E
87. Spain	JdCcJc	16 4A 64 43 63 4A 63 2E
88. Switzerland	JdCcCbc	16 4A 64 43 63 43 62 63 2E
89. Brazil	JdCcLa	16 4A 64 43 63 4C 61 2E
90. Denmark	JdCcEbc	16 4A 64 43 63 45 62 63 2E
91. UK English	JdCcDbc	16 4A 64 43 63 44 62 63 2E
92. Italy	JdCcZb	16 4A 64 43 63 5A 62 2E

93. France	JdCcFb	16 4A 64 43 63 46 62 2E
94. Germany	JdCcBbc	16 4A 64 43 63 42 62 63 2E
95. Hungary	JdCcNbc	16 4A 64 43 63 4E 62 63 2E
96. Sweden	JdCcRbc	16 4A 64 43 63 52 62 63 2E
97. Slovakia	JdCcQbc	16 4A 64 43 63 51 62 63 2E
98. Portuguese	JdCclbc	16 4A 64 43 63 49 62 63 2E
99. Romania	JdCcSbc	16 4A 64 43 63 53 62 63 2E
100. Belgium	JdCcZac	16 4A 64 43 63 5A 61 63 2E
101. Turkey-F	JdCcTbc	16 4A 64 43 63 54 62 63 2E
102. Turkey-Q	JdCcXac	16 4A 64 43 63 58 61 63 2E
103. Poland	JdCcObc	16 4A 64 43 63 4F 62 63 2E
104. Russia-MS	JdCcQdc	16 4A 64 43 63 51 64 63 2E
105. Japan	JdCcVac	16 4A 64 43 63 56 61 63 2E
106. Ukrainia	JdCcGdc	16 4A 64 43 63 47 64 63 2E
107. Arabic	JdCcVa	16 4A 64 43 63 56 61 2E
108. Thai	JDCcNd	16 4A 44 43 63 4E 64 2E
109. USB Keyboard-Output function keys	QbBbQa	16 51 62 42 62 51 61 2E
110. USB Keyboard-Output Ctrl combination key 1	QbBbAb	16 51 62 42 62 41 62 2E
111. USB Keyboard-Output Ctrl combination key 2	QbBbEc	16 51 62 42 62 45 63 2E

112. USB Keyboard-ALT output control characters	QbBbKb	16 51 62 42 62 4B 62 2E
113. USB Keyboard-Output Enter&DownArrow	QbBbUb	16 51 62 42 62 55 62 2E
114. Close Virtual Keyboard	W aBbPa	16 57 61 42 62 50 61 2E
115. Open Virtual Keyboard	WaBbZa	16 57 61 42 62 5A 61 2E
116. Character Conversion-Normal	BbLdOa	16 42 62 4C 64 4F 61 2E
117. Character Conversion-Upper	BbLdYa	16 42 62 4C 64 59 61 2E
118. Character Conversion-Lower	BbLdIb	16 42 62 4C 64 49 62 2E
119. Character Conversion-Inverse	BbLdSb	16 42 62 4C 64 53 62 2E
120. USB Speed-Low	OdJcVac	16 4F 64 4A 63 56 61 63 2E
121. USB Speed-Middle	OdJcJc	16 4F 64 4A 63 4A 63 2E
122. USB Speed-High	OdJcVa	16 4F 64 4A 63 56 61 2E
123. Caps Lock Auto Close	IbReQa	16 49 62 52 65 51 61 2E
124. Caps Lock Auto Open	IbReAb	16 49 62 52 65 41 62 2E
125. Caps Lock Keep	IbReKb	16 49 62 52 65 4B 62 2E
126. USB-COM Virtual Serial Port	VbZcXag	16 56 62 5A 63 58 61 67 2E
127. HID-POS	VbZcYag	16 56 62 5A 63 59 61 67 2E
128. TTL/RS232 Serial Port	VbZcNc	16 56 62 5A 63 4E 63 2E
129. Baud rate-4800	VbCdRdc	16 56 62 43 64 52 64 63 2E
130. Baud rate-9600	VbCdSdc	16 56 62 43 64 53 64 63 2E

131. Baud rate-19200	VbCdUdc	16 56 62 43 64 55 64 63 2E
132. Baud rate-38400	VbCdVdc	16 56 62 43 64 56 64 63 2E
133. Baud rate-57600	VbCdWdc	16 56 62 43 64 57 64 63 2E
134. Baud rate-115200	VbCdVac	16 56 62 43 64 56 61 63 2E
135. Serial Port Transmission Speed-Low	JdGeKbc	16 4A 64 47 65 4B 62 63 2E
136. Serial Port Transmission Speed-Middle	JdGeVac	16 4A 64 47 65 56 61 63 2E
137. Serial Port Transmission Speed-High	JdGeVa	16 4A 64 47 65 56 61 2E
138. ~Customize inter-character delay time	TdGeLa	16 4A 64 47 65 XX XX XX 2E
139. Read Mode-Manual Mode	VbBeJb	16 56 62 42 65 4A 62 2E
140. Button Timeout-Infinite	UaZcCb	16 55 61 5A 63 43 62 2E
141. Button Timeout-3S	MdZcAbc	16 4D 64 5A 63 41 62 63 2E
142. Button Timeout-5S	MdZcKbc	16 4D 64 5A 63 4B 62 63 2E
143. Button Timeout-10S	MdZcJcc	16 4D 64 5A 63 4A 63 63 2E
144. Button Timeout-15S	MdZcldc	16 4D 64 5A 63 49 64 63 2E
145. Button Timeout-20S	MdZcVaHa	16 4D 64 5A 63 56 61 48 61 2E
146. ~Custom Button Timeout	WdZcLa	16 4D 64 5A 63 XX XX XX 2E
147. Continuous Mode	VbBeZa	16 56 62 42 65 5A 61 2E
148. Continuous Mode Same Code Delay-Without delay	JdHeLa	16 4A 64 48 65 4C 61 2E
149. Continuous Mode Same Code Delay-100ms	JdHeVa	16 4A 64 48 65 56 61 2E

150. Continuous Mode Same Code Delay-200ms	JdHeFb	16 4A 64 48 65 46 62 2E
151. Continuous Mode Same Code Delay-300ms	JdHePb	16 4A 64 48 65 50 62 2E
152. Continuous Mode Same Code Delay-400ms	JdHeZb	16 4A 64 48 65 5A 62 2E
153. Continuous Mode Same Code Delay-500ms	JdHeJc	16 4A 64 48 65 4A 63 2E
154. Continuous Mode Same Code Delay-800ms	JdHeNd	16 4A 64 48 65 4E 64 2E
155. Continuous Mode Same Code Delay-1200ms	JdHeXac	16 4A 64 48 65 58 61 63 2E
156. Continuous Mode Same Code Delay-2000ms	JdHeFbc	16 4A 64 48 65 46 62 63 2E
157. Continuous Mode Same Code Delay-Without Timeout	RaHeCb	16 52 61 48 65 43 62 2E
158. Continuous Mode Different Code Delay-Without delay	JidleLa	16 4A 64 49 65 4C 61 2E
159. Continuous Mode Different Code Delay-100ms	JidleVa	16 4A 64 49 65 56 61 2E
160. Continuous Mode Different Code Delay-300ms	JidlePb	16 4A 64 49 65 50 62 2E
161. Continuous Mode Different Code Delay-500ms	JidleJc	16 4A 64 49 65 4A 63 2E
162. Continuous Mode Different Code	JidleTc	16 4A 64 49 65 54 63 2E

Delay-600ms		
163. Continuous Mode Different Code Delay-800ms	JdleNd	16 4A 64 49 65 4E 64 2E
164. Continuous Mode Different Code Delay-1000ms	JdleVac	16 4A 64 49 65 56 61 63 2E
165. Continuous Mode Different Code Delay-2000ms	JdleFbc	16 4A 64 49 65 46 62 63 2E
166. Continuous Mode Different Code Delay-5000ms	JdleJcc	16 4A 64 49 65 4A 63 63 2E
167. Read Mode-Induction Mode	VbBePa	16 56 62 42 65 50 61 2E
168. Induction Mode Image stabilization duration-100ms	OdCbVa	16 4F 64 43 62 56 61 2E
169. Induction Mode Image stabilization duration-200ms	OdCbFb	16 4F 64 43 62 46 62 2E
170. Induction Mode Image stabilization duration-300ms	OdCbPb	16 4F 64 43 62 50 62 2E
171. Induction Mode Image stabilization duration-400ms	OdCbZb	16 4F 64 43 62 5A 62 2E
172. Induction Mode Image stabilization duration-500ms	OdCbJc	16 4F 64 43 62 4A 63 2E
173. Induction Mode-High Sensitivity	AcDbVa	16 41 63 44 62 56 61 2E
174. Induction Mode-Middle Sensitivity	AcDbFb	16 41 63 44 62 46 62 2E
175. Induction Mode-Low Sensitivity	AcDbPb	16 41 63 44 62 50 62 2E
176. Code ID-Forbid	WaFbRa	16 57 61 46 62 52 61 2E

177. Code ID-Allow	WaFbBb	16 57 61 46 62 42 62 2E
178. AIM ID-Forbid	QaXdQa	16 51 61 58 64 51 61 2E
179. AIM ID-Allow	QaXdAb	16 51 61 58 64 41 62 2E
180. None STX	BbKdPa	16 42 62 4B 64 50 61 2E
181. STX	BbKdJb	16 42 62 4B 64 4A 62 2E
182. ETX	BbKdZa	16 42 62 4B 64 5A 61 2E
183. STX+ETX	BbKdTb	16 42 62 4B 64 54 62 2E
184. Tail-CR (0x0D)	LbKdGb	16 4C 62 4B 64 47 62 2E
185. Tail-LF (0x0A)	LbKdUc	16 4C 62 4B 64 55 63 2E
186. Tail-CR LF (0x0D0A)	LbKdWa	16 4C 62 4B 64 57 61 2E
187. Tail-HT (0x09)	LbKdQb	16 4C 62 4B 64 51 62 2E
188. Tail-CR CR (0x0D0D)	LbKdAc	16 4C 62 4B 64 41 63 2E
189. Tail-CR LF CR LF (0x0D0A0D0A)	LbKdKc	16 4C 62 4B 64 4B 63 2E
190. Tail-None	LbKdMa	16 4C 62 4B 64 4D 61 2E
191. GS Substitution-No Replacement	McReLa	16 4D 63 52 65 4C 61 2E
192. GS Substitution-Replace to Ç	McReVa	16 4D 63 52 65 56 61 2E
193. GS Substitution-Replace to	McReFb	16 4D 63 52 65 46 62 2E
194. GS Substitution-Replace to ^]	McRePb	16 4D 63 52 65 50 62 2E
195. GS Substitution-Replace to]	McReZb	16 4D 63 52 65 5A 62 2E
196. GS Substitution-Replace to <GS>	McReJc	16 4D 63 52 65 4A 63 2E
197. GS Substitution-Replace to [GS]	McReTc	16 4D 63 52 65 54 63 2E

198. ~Custom Prefix 1 st Character	N/A	16 49 64 46 63 XX XX XX 2E
199. ~Custom Prefix 2 nd Character	N/A	16 49 64 47 63 XX XX XX 2E
200. ~Custom Prefix 3 rd Character	N/A	16 49 64 48 63 XX XX XX 2E
201. ~Custom Prefix 4 th Character	N/A	16 49 64 49 63 XX XX XX 2E
202. ~Custom Prefix 5 th Character	N/A	16 49 64 4A 63 XX XX XX 2E
203. ~Custom Prefix 6 th Character	N/A	16 49 64 4B 63 XX XX XX 2E
204. ~Custom Prefix 7 th Character	N/A	16 49 64 4C 63 XX XX XX 2E
205. ~Custom Prefix 8 th Character	N/A	16 49 64 4D 63 XX XX XX 2E
206. ~Custom Prefix 9 th Character	N/A	16 49 64 4E 63 XX XX XX 2E
207. ~Custom Prefix 10 th Character	N/A	16 49 64 4F 63 XX XX XX 2E
208. Clear Custom Prefix	BeReSd	16 42 65 52 65 53 64 2E
209. ~Custom Suffix 1 st Character	N/A	16 49 64 50 63 XX XX XX 2E
210. ~Custom Suffix 2 nd Character	N/A	16 49 64 51 63 XX XX XX 2E
211. ~Custom Suffix 3 rd Character	N/A	16 49 64 52 63 XX XX XX 2E
212. ~Custom Suffix 4 th Character	N/A	16 49 64 53 63 XX XX XX 2E
213. ~Custom Suffix 5 th Character	N/A	16 49 64 54 63 XX XX XX 2E
214. ~Custom Suffix 6 th Character	N/A	16 49 64 55 63 XX XX XX 2E
215. ~Custom Suffix 7 th Character	N/A	16 49 64 56 63 XX XX XX 2E
216. ~Custom Suffix 8 th Character	N/A	16 49 64 57 63 XX XX XX 2E
217. ~Custom Suffix 9 th Character	N/A	16 49 64 58 63 XX XX XX 2E
218. ~Custom Suffix 10 th Character	N/A	16 49 64 59 63 XX XX XX 2E

219. Clear Custom Suffix	BeReRd	16 42 65 52 65 52 64 2E
220. Setting UPC-A Prefix/Suffix	SdAdLa	16 53 64 41 64 4C 61 2E
221. Setting UPC-E Prefix/Suffix	SdBdLa	16 53 64 42 64 4C 61 2E
222. Setting EAN-8 Prefix/Suffix	SdCdLa	16 53 64 43 64 4C 61 2E
223. Setting EAN-13 Prefix/Suffix	SdDdLa	16 53 64 44 64 4C 61 2E
224. Setting Code 39 Prefix/Suffix	SdEdLa	16 53 64 45 64 4C 61 2E
225. Setting Code 128 Prefix/Suffix	SdFdLa	16 53 64 46 64 4C 61 2E
226. Setting Telepen Prefix/Suffix	SdGdLa	16 53 64 47 64 4C 61 2E
227. Setting Code 93 Prefix/Suffix	SdHdLa	16 53 64 48 64 4C 61 2E
228. Setting Code 11 Prefix/Suffix	SdIdLa	16 53 64 49 64 4C 61 2E
229. Setting MSI Plessey Prefix/Suffix	SdJdLa	16 53 64 4A 64 4C 61 2E
230. Setting Codabar Prefix/Suffix	SdKdLa	16 53 64 4B 64 4C 61 2E
231. Setting ITF25 Prefix/Suffix	SdLdLa	16 53 64 4C 64 4C 61 2E
232. Setting Matrix 25 Prefix/Suffix	SdMdLa	16 53 64 4D 64 4C 61 2E
233. Setting IATA 25 Prefix/Suffix	SdNdLa	16 53 64 4E 64 4C 61 2E
234. Setting Industrial 25 Prefix/Suffix	SdPdLa	16 53 64 50 64 4C 61 2E
235. Setting Triopic 25 Prefix/Suffix	SdQdLa	16 53 64 51 64 4C 61 2E
236. Setting QR code Prefix/Suffix	SdSdLa	16 53 64 53 64 4C 61 2E
237. Different Code Prefix/Suffix-Set to Prefix	QaZcSa	16 51 61 5A 63 53 61 2E
238. Different Code Prefix/Suffix-Set to	QaZcCb	16 51 61 5A 63 43 62 2E

Code	Prefix/Suffix	
239. Different Prefix/Suffix-Clear Prefix/Suffix	BeReQd	16 42 65 52 65 51 64 2E
240. Hidden Header Character Allow	WaQbCb	16 57 61 51 62 43 62 2E
241. Hidden Header Character Forbid	WaQbSa	16 57 61 51 62 53 62 2E
242. ~Header Data Hiding Bits	YdRbLa	16 4F 64 52 62 XX XX XX 2E
243. Hidden Middle Character Allow	WaQbBb	16 57 61 51 62 42 62 2E
244. Hidden Middle Character Forbid	WaQbRb	16 57 61 51 62 52 62 2E
245. ~Start Bit of Hidden Middle Character	YdSbLa	16 4F 64 53 62 XX XX XX 2E
246. ~Middle Data Hiding Bits	YdTbLa	16 4F 64 54 62 XX XX XX 2E
247. Hidden Tail Character Allow	WaQbAb	16 57 61 51 62 41 61 2E
248. Hidden Tail Character Forbid	WaQbQa	16 57 61 51 62 51 61 2E
249. ~Tail Data Hiding Bits	YdUbLa	16 4F 64 55 62 XX XX XX 2E
250. ~ UPC-E Header Data Hiding Bits	N/A	16 52 64 57 61 XX XX XX 2E
251. UPC-E Clear Header Data Hiding	RdWa00	16 52 64 57 61 30 30 2E
252. ~ EAN-8 Header Data Hiding Bits	N/A	16 52 64 58 61 XX XX XX 2E
253. EAN-8 Clear Header Data Hiding	RdXa00	16 52 64 58 61 30 30 2E
254. ~ UPC-A Header Data Hiding Bits	N/A	16 52 64 59 61 XX XX XX 2E
255. UPC-A Clear Header Data Hiding	RdYa00	16 52 64 59 61 30 30 2E
256. ~ EAN-13 Header Data Hiding Bits	N/A	16 52 64 5A 61 XX XX XX 2E
257. EAN-13 Clear Header Data Hiding	RdZa00	16 52 64 5A 61 30 30 2E

258. ~ Code 39 Header Data Hiding Bits	N/A	16 52 64 41 62 XX XX XX 2E
259. Code 39 Clear Header Data Hiding	RdAb00	16 52 64 41 62 30 30 2E
260. ~ Codabar Header Data Hiding Bits	N/A	16 52 64 42 62 XX XX XX 2E
261. Codabar Clear Header Data Hiding	RdBb00	16 52 64 42 62 30 30 2E
262. ~ I25 Header Data Hiding Bits	N/A	16 52 64 43 62 XX XX XX 2E
263. I25 Clear Header Data Hiding	RdCb00	16 52 64 43 62 30 30 2E
264. ~ Code128 Header Data Hiding Bits	N/A	16 52 64 44 62 XX XX XX 2E
265. Code128 Clear Header Data Hiding	RdDb00	16 52 64 44 62 30 30 2E
266. ~ Code93 Header Data Hiding Bits	N/A	16 52 64 45 62 XX XX XX 2E
267. Code93 Clear Header Data Hiding	RdEb00	16 52 64 45 62 30 30 2E
268. ~ PDF417 Header Data Hiding Bits	N/A	16 52 64 46 62 XX XX XX 2E
269. PDF417 Clear Header Data Hiding	RdFb00	16 52 64 46 62 30 30 2E
270. ~ Datamatrix Header Data Hiding Bits	N/A	16 52 64 47 62 XX XX XX 2E
271. Datamatrix Clear Header Data Hiding	RdGb00	16 52 64 47 62 30 30 2E
272. ~ QR Header Data Hiding Bits	N/A	16 52 64 48 62 XX XX XX 2E
273. QR Clear Header Data Hiding	RdHb00	16 52 64 48 62 30 30 2E
274. ~ UPC-E Middle Data Hiding Bits	N/A	16 52 64 4B 63 XX XX XX 2E
275. ~UPC-E Start Bit of Hidden Middle Data	N/A	16 52 64 51 62 XX XX XX 2E
276. UPC-E Clear Middle Data Hiding	RdKc00	16 52 64 4B 63 30 30 2E
277. ~ EAN-8 Middle Data Hiding Bits	N/A	16 52 64 4C 63 XX XX XX 2E

278. ~EAN-8 Start Bit of Hidden Middle Data	N/A	16 52 64 52 62 XX XX XX 2E
279. EAN-8 Clear Middle Data Hiding	RdLc00	16 52 64 4C 63 30 30 2E
280. ~ UPC-A Middle Data Hiding Bits	N/A	16 52 64 4D 63 XX XX XX 2E
281. ~UPC-A Start Bit of Hidden Middle Data	N/A	16 52 64 53 62 XX XX XX 2E
282. UPC-A Clear Middle Data Hiding	RdMc00	16 52 64 4D 63 30 30 2E
283. ~EAN13 Middle Data Hiding Bits	N/A	16 52 64 4E 63 XX XX XX 2E
284. ~EAN13 Start Bit of Hidden Middle Data	N/A	16 52 64 54 62 XX XX XX 2E
285. EAN13 Clear Middle Data Hiding	RdNc00	16 52 64 4E 63 30 30 2E
286. ~Code39 Middle Data Hiding Bits	N/A	16 52 64 4F 63 XX XX XX 2E
287. ~Code39 Start Bit of Hidden Middle Data	N/A	16 52 64 55 62 XX XX XX 2E
288. Code39 Clear Middle Data Hiding	RdOc00	16 52 64 4F 63 30 30 2E
289. ~Codabar Middle Data Hiding Bits	N/A	16 52 64 50 63 XX XX XX 2E
290. ~Codabar Start Bit of Hidden Middle Data	N/A	16 52 64 56 62 XX XX XX 2E
291. Codabar Clear Middle Data Hiding	RdPc00	16 52 64 50 63 30 30 2E
292. ~I25 Middle Data Hiding Bits	N/A	16 52 64 51 63 XX XX XX 2E
293. ~I25 Start Bit of Hidden Middle Data	N/A	16 52 64 57 62 XX XX XX 2E
294. I25 Clear Middle Data Hiding	RdQc00	16 52 64 51 63 30 30 2E

295. ~Code128 Middle Data Hiding Bits	N/A	16 52 64 52 63 XX XX XX 2E
296. ~Code128 Start Bit of Hidden Middle Data	N/A	16 52 64 58 62 XX XX XX 2E
297. Code128 Clear Middle Data Hiding	RdRc00	16 52 64 52 63 30 30 2E
298. ~Code93 Middle Data Hiding Bits	N/A	16 52 64 53 63 XX XX XX 2E
299. ~Code93 Start Bit of Hidden Middle Data	N/A	16 52 64 59 62 XX XX XX 2E
300. Code93 Clear Middle Data Hiding	RdSc00	16 52 64 53 63 30 30 2E
301. ~QR Code Middle Data Hiding Bits	N/A	16 52 64 56 63 XX XX XX 2E
302. ~QR Code Start Bit of Hidden Middle Data	N/A	16 52 64 42 63 XX XX XX 2E
303. QR Code Clear Middle Data Hiding	RdVc00	16 52 64 56 63 30 30 2E
304. ~Data matrix Middle Data Hiding Bits	N/A	16 52 64 55 63 XX XX XX 2E
305. ~Data matrix Start Bit of Hidden Middle Data	N/A	16 52 64 41 63 XX XX XX 2E
306. Data matrix Clear Middle Data Hiding	RdUc00	16 52 64 55 63 30 30 2E
307. ~PDF417 Middle Data Hiding Bits	N/A	16 52 64 54 63 XX XX XX 2E
308. ~PDF417 Start Bit of Hidden Middle Data	N/A	16 52 64 5A 62 XX XX XX 2E
309. PDF417 Clear Middle Data Hiding	RdTc00	16 52 64 54 63 30 30 2E
310. ~ UPC-E Tail Data Hiding Bits	N/A	16 52 64 57 61 XX XX XX 2E
311. UPC-E Clear Tail Data Hiding	RdWa00	16 52 64 57 61 30 30 2E

312. ~ EAN-8 Tail Data Hiding Bits	N/A	16 52 64 58 61 XX XX XX 2E
313. EAN-8 Clear Tail Data Hiding	RdXa00	16 52 64 58 61 30 30 2E
314. ~ UPC-A Tail Data Hiding Bits	N/A	16 52 64 59 61 XX XX XX 2E
315. UPC-A Clear Tail Data Hiding	RdYa00	16 52 64 59 61 30 30 2E
316. ~ EAN-13 Tail Data Hiding Bits	N/A	16 52 64 5A 61 XX XX XX 2E
317. EAN-13 Clear Tail Data Hiding	RdZa00	16 52 64 5A 61 30 30 2E
318. ~ Code 39 Tail Data Hiding Bits	N/A	16 52 64 41 62 XX XX XX 2E
319. Code 39 Clear Tail Data Hiding	RdAb00	16 52 64 41 62 30 30 2E
320. ~ Codabar Tail Data Hiding Bits	N/A	16 52 64 42 62 XX XX XX 2E
321. Codabar Clear Tail Data Hiding	RdBb00	16 52 64 42 62 30 30 2E
322. ~ I25 Tail Data Hiding Bits	N/A	16 52 64 43 62 XX XX XX 2E
323. I25 Clear Tail Data Hiding	RdCb00	16 52 64 43 62 30 30 2E
324. ~ Code128 Tail Data Hiding Bits	N/A	16 52 64 44 62 XX XX XX 2E
325. Code128 Clear Tail Data Hiding	RdDb00	16 52 64 44 62 30 30 2E
326. ~ Code93 Tail Data Hiding Bits	N/A	16 52 64 45 62 XX XX XX 2E
327. Code93 Clear Tail Data Hiding	RdEb00	16 52 64 45 62 30 30 2E
328. ~ QR Tail Data Hiding Bits	N/A	16 52 64 48 62 XX XX XX 2E
329. QR Clear Tail Data Hiding	RdHb00	16 52 64 48 62 30 30 2E
330. ~ Datamatrix Tail Data Hiding Bits	N/A	16 52 64 47 62 XX XX XX 2E
331. Datamatrix Clear Tail Data Hiding	RdGb00	16 52 64 47 62 30 30 2E
332. ~ PDF417 Tail Data Hiding Bits	N/A	16 52 64 46 62 XX XX XX 2E

333. PDF417 Clear Tail Data Hiding	RdFb00	16 52 64 46 62 30 30 2E
334. ~Insert Custom Data Position	N/A	16 4F 64 46 63 XX XX XX 2E
335. ~Insert 1 st Character	N/A	16 4F 64 56 62 XX XX XX 2E
336. ~Insert 2 nd Character	N/A	16 4F 64 57 62 XX XX XX 2E
337. ~Insert 3 rd Character	N/A	16 4F 64 58 62 XX XX XX 2E
338. ~Insert 4 th Character	N/A	16 4F 64 59 62 XX XX XX 2E
339. ~Insert 5 th Character	N/A	16 4F 64 5A 62 XX XX XX 2E
340. ~Insert 6 th Character	N/A	16 4F 64 41 63 XX XX XX 2E
341. ~Insert 7 th Character	N/A	16 4F 64 42 63 XX XX XX 2E
342. ~Insert 8 th Character	N/A	16 4F 64 43 63 XX XX XX 2E
343. ~Insert 9 th Character	N/A	16 4F 64 44 63 XX XX XX 2E
344. ~Insert 10 th Character	N/A	16 4F 64 45 63 XX XX XX 2E
345. Clear Insert Character	BeReOd	16 42 65 52 65 4F 64 2E
346. Display Inserted Character-Allow	WaQbYa	16 57 61 51 62 59 61 2E
347. Display Inserted Character-Forbid	WaQbOa	16 57 61 51 62 4F 61 2E
348. ~The character to be replaced	VdEeLa	16 4C 64 45 65 XX XX XX 2E
349. ~New character after replacement	VdFeLa	16 4C 64 46 65 XX XX XX 2E
350. CTRL-SHIFT-ALT Prefix Allow	XaFeCb	16 58 61 46 65 43 62 2E
351. CTRL-SHIFT-ALT Prefix Forbid	XaFeSa	16 58 61 46 65 53 61 2E
352. CTRL On	XaFeVa	16 58 61 46 65 56 61 2E
353. CTRL Off	XaFeLa	16 58 61 46 65 4C 61 2E

354. SHIFT On	XaFeWa	16 58 61 46 65 57 61 2E
355. SHIFT Off	XaFeMa	16 58 61 46 65 4D 61 2E
356. ALT On	XaFeXa	58 61 46 65 58 61 2E
357. ALT Off	XaFeNa	16 58 61 46 65 4E 61 2E
358. ~Main Code	ZdGeLa	16 50 64 47 65 XX XX XX 2E
359. Enable all bar code types	GbYaXa	16 47 62 59 61 58 61 2E
360. Disable all bar code types	GbYaHb	16 47 62 59 61 48 62 2E
361. Enable all 1D code types	GbYaZa	16 47 62 59 61 5A 61 2E
362. Disable all 1D code types	GbYaJb	16 47 62 59 61 4A 62 2E
363. Enable all 2D code types	GbYaBb	16 47 62 59 61 42 62 2E
364. Disable all 2D code types	GbYaLb	16 47 62 59 61 4C 62 2E
365. UPC-A-Allow	QaYaBb	16 51 61 59 61 42 62 2E
366. UPC-A-Forbid	QaYaRa	16 51 61 59 61 52 61 2E
367. UPC-A-Transfer Check Character	QaTdCb	16 51 61 54 64 43 62 2E
368. UPC-A-Not Transfer Check Character	QaTdSa	16 51 61 54 64 53 61 2E
369. UPC-A-2 Bit Additional Bits-Allow	QalbCb	16 51 61 49 62 43 62 2E
370. UPC-A-2 Bit Additional Bits-Forbid	QalbSa	16 51 61 49 62 53 61 2E
371. UPC-A-5 Bit Additional Bits-Allow	QalbBb	16 51 61 49 62 42 62 2E
372. UPC-A-5 Bit Additional Bits-Forbid	QalbRa	16 51 61 49 62 52 61 2E
373. UPC-A-Forced Additional Bit-Allow	QalbYa	16 51 61 49 62 59 61 2E
374. UPC-A-Forced Additional Bit-Forbid	QalbOa	16 51 61 49 62 4F 61 2E

375. UPC-A-Additional Bit Separator-Allow	QalbXa	16 51 61 49 62 58 61 2E
376. UPC-A-Additional Bit Separator-Forbid	QalbNa	16 51 61 49 62 4E 61 2E
377. UPC-A-Transport System Character	QaTdWa	16 51 61 54 64 57 61 2E
378. UPC-A-Not Transport System Character	QaTdMa	16 51 61 54 64 4D 61 2E
379. UPC-A-to EAN-13-Allow	QaTdVa	16 51 61 54 64 5A 61 2E
380. UPC-A-to EAN-13-Forbid	QaTdLa	16 51 61 54 64 50 61 2E
381. UPC-E0-Allow	QaYaVa	16 51 61 59 61 56 61 2E
382. UPC-E0-Forbid	QaYaLa	16 51 61 59 61 4C 61 2E
383. UPC-E1-Allow	WaYaVa	16 57 61 59 61 56 61 2E
384. UPC-E1-Forbid	WaYaLa	16 57 61 59 61 4C 61 2E
385. UPC-E-Transfer Check Character	QaTdBb	16 51 61 54 64 42 62 2E
386. UPC-E-Not Transfer Check Character	QaTdRa	16 51 61 54 64 52 61 2E
387. UPC-E-2 Bit Additional Bits-Allow	QalbCb	16 51 61 49 62 43 62 2E
388. UPC-E-2 Bit Additional Bits-Forbid	QalbSa	16 51 61 49 62 53 61 2E
389. UPC-E-5 Bit Additional Bits-Allow	QalbBb	16 51 61 49 62 42 62 2E
390. UPC-E-5 Bit Additional Bits-Forbid	QalbRa	16 51 61 49 62 52 61 2E
391. UPC-E-Forced Additional Bit-Allow	QalbYa	16 51 61 49 62 59 61 2E
392. UPC-E-Forced Additional Bit-Forbid	QalbOa	16 51 61 49 62 4F 61 2E
393. UPC-E-Additional Bit Separator-Allow	SaAeXa	16 53 61 41 65 58 61 2E
394. UPC-E-Additional Bit Separator-	SaAeNa	16 53 61 41 65 4E 61 2E

Forbid		
395. UPC-E-Transport System Character	QaTdYa	16 51 61 54 64 59 61 2E
396. UPC-E-Not Transport System Character	QaTdOa	16 51 61 54 64 4F 61 2E
397. UPC-E-to UPC-A Allow	QaTdAb	16 51 61 54 64 41 62 2E
398. UPC-E-to UPC-A Forbid	QaTdQa	16 51 61 54 64 51 61 2E
399. EAN/JAN-8-Allow	QaYaZa	16 51 61 59 61 5A 61 2E
400. EAN/JAN-8-Forbid	QaYaPa	16 51 61 59 61 50 61 2E
401. EAN/JAN-8-Transfer Character	QaXdVa	16 51 61 58 64 56 61 2E
402. EAN/JAN-8-Not Transfer Character	QaXdLa	16 51 61 58 64 4C 61 2E
403. EAN/JAN-8-2 Bit Additional Bits-Allow	QalbCb	16 51 61 49 62 43 62 2E
404. EAN/JAN-8-2 Bit Additional Bits-Forbid	QalbSa	16 51 61 49 62 53 61 2E
405. EAN/JAN-8-5 Bit Additional Bits-Allow	QalbBb	16 51 61 49 62 42 62 2E
406. EAN/JAN-8-5 Bit Additional Bits-Forbid	QalbRa	16 51 61 49 62 52 61 2E
407. EAN/JAN-8 Forced Additional Bit-Allow	QalbYa	16 51 61 49 62 59 61 2E
408. EAN/JAN-8 Forced Additional Bit-Forbid	QalbOa	16 51 61 49 62 4F 61 2E
409. EAN/JAN-8 Additional Bit	QalbXa	16 51 61 49 62 58 61 2E

Separator-Allow				
410. EAN/JAN-8 Separator-Forbid		Additional Bit	QalbNa	16 51 61 49 62 4E 61 2E
411. EAN/JAN-8-to EAN-13 Allow			QaTdXa	16 51 61 54 64 58 61 2E
412. EAN/JAN-8-to EAN-13 Forbid			QaTdNa	16 51 61 54 64 4E 61 2E
413. EAN/JAN -13-Allow			QaYaWa	16 51 61 59 61 57 61 2E
414. EAN/JAN -13-Forbid			QaYaMa	16 51 61 59 61 4D 61 2E
415. EAN/JAN-13-Transfer Character		Check	QaXdXa	16 51 61 58 64 58 61 2E
416. EAN/JAN-13-Not Character		Transfer Check	QaXdNa	16 51 61 58 64 4E 61 2E
417. EAN/JAN-13-2 Bits-Allow		Bit Additional	QalbCb	16 51 61 49 62 43 62 2E
418. EAN/JAN-13-2 Bits-Forbid		Bit Additional	QalbSa	16 51 61 49 62 53 61 2E
419. EAN/JAN-13-5 Bits-Allow		Bit Additional	QalbBb	16 51 61 49 62 42 62 2E
420. EAN/JAN-13-5 Bits-Forbid		Bit Additional	QalbRa	16 51 61 49 62 52 61 2E
421. EAN/JAN-13 Bit-Allow		Forced Additional	QalbYa	16 51 61 49 62 59 61 2E
422. EAN/JAN-13 Bit-Forbid		Forced Additional	QalbOa	16 51 61 49 62 4F 61 2E
423. EAN/JAN-13		Additional Bit	QalbXa	16 51 61 49 62 58 61 2E

Separator-Allow				
424. EAN/JAN-13 Separator-Forbid		Additional Bit	QalbNa	16 51 61 49 62 4E 61 2E
425. ISBN Allow			QaJbCb	16 51 61 4A 62 43 62 2E
426. ISBN Forbid			QaJbSa	16 51 61 4A 62 53 61 2E
427. ISBN Transfer Check Character			QaJbAb	16 51 61 4A 62 41 62 2E
428. ISBN Not Transfer Check Character			QaJbQa	16 51 61 4A 62 51 61 2E
429. ISSN Allow			RaVcCb	16 52 61 56 63 43 62 2E
430. ISSN Forbid			RaVcSa	16 52 61 56 63 53 61 2E
431. ISSN Transfer Check Character			RaVcAb	16 52 61 56 63 41 62 2E
432. ISSN Not Transfer Check Character			RaVcQa	16 52 61 56 63 51 61 2E
433. Code 128-Allow			QaXaYa	16 51 61 58 61 59 61 2E
434. Code 128-Forbid			QaXaOa	16 51 61 58 61 4F 61 2E
435. ~Code 128-Min Length			N/A	16 4E 64 49 62 XX XX XX 2E
436. ~Code 128-Max Length			N/A	16 4E 64 4A 62 XX XX XX 2E
437. GS1-128-Allow			RaYcVa	16 52 61 59 63 56 61 2E
438. GS1-128-Forbid			RaYcLa	16 52 61 59 63 4C 61 2E
439. ~GS1-128-Min Length			N/A	16 4E 64 4B 62 XX XX XX 2E
440. ~GS1-128-Max Length			N/A	16 4E 64 4C 62 XX XX XX 2E
441. ISBT 128-Connection Function Allow			TaCeCb	16 54 61 43 65 43 62 2E
442. ISBT 128-Connection Function Forbid			TaCeSa	16 54 61 43 65 53 61 2E

443. Code 39-Allow	QaXaWa	16 51 61 58 61 57 61 2E
444. Code 39-Forbid	QaXaMa	16 51 61 58 61 4D 61 2E
445. Code 39-No Parity	IbNePa	16 49 62 4E 65 50 61 2E
446. Code 39-Allow and Transfer Character	IbNeZa	16 49 62 4E 65 5A 61 2E
447. Code 39-Allow and Not Transfer Character	IbNeJb	16 49 62 4E 65 4A 62 2E
448. Code 39-Transfer Start and End Character-Allow	QaVdVa	16 51 61 56 64 56 61 2E
449. Code 39-Transfer Start and End Character-Forbid	QaVdLa	16 51 61 56 64 4C 61 2E
450. Code 39-FullASCII Allow	QaYaCb	16 51 61 59 61 43 62 2E
451. Code 39-FullASCII Forbid	QaYaSa	16 51 61 59 61 53 61 2E
452. ~Code 39-Min Length	N/A	16 4E 64 4D 62 XX XX XX 2E
453. ~Code 39-Max Length	N/A	16 4E 64 4E 62 XX XX XX 2E
454. Code 32 -Allow	QaYaAb	16 51 61 59 61 41 62 2E
455. Code 32 -Forbid	QaYaQa	16 51 61 59 61 51 61 2E
456. Code 32 -Transfer Check Character	WaYaWa	16 57 61 59 61 57 61 2E
457. Code 32 -Not Transfer Check Character	WaYaMa	16 57 61 59 61 4D 61 2E
458. Code 32-Add Prefix A-Allow	QaVdXA	16 51 61 56 64 58 61 2E
459. Code 32-Add Prefix A-Forbid	QaVdNa	16 51 61 56 64 4E 61 2E

460. Code 32 Fail to Read-Allow	QaZaCb	16 51 61 5A 61 43 62 2E
461. Code 32 Fail to Read-Forbid	QaZaSa	16 51 61 5A 61 53 61 2E
462. Code 93-Allow	QaXaXa	16 51 61 58 61 58 61 2E
463. Code 93-Forbid	QaXaNa	16 51 61 58 61 4E 61 2E
464. ~Code 93-Min Length	N/A	16 4E 64 45 63 XX XX XX 2E
465. ~Code 93-Max Length	N/A	16 4E 64 46 63 XX XX XX 2E
466. Code 11-Allow	QaWaYa	16 51 61 57 61 59 61 2E
467. Code 11-Forbid	QaWaOa	16 51 61 57 61 4F 61 2E
468. Code 11-1-bit check and transmit	SbOeXa	16 53 62 4F 65 58 61 2E
469. Code 11-2-bit check and transmit	SbOeNa	16 53 62 4F 65 4E 61 2E
470. Code 11-1-bit check and not transmit	SbOeRb	16 53 62 4F 65 52 62 2E
471. Code 11-2-bit check and not transmit	SbOeHb	16 53 62 4F 65 48 62 2E
472. Code 11-No check	SbOeBc	16 53 62 4F 65 42 63 2E
473. ~Code 11-Min Length	N/A	16 4E 64 4F 62 XX XX XX 2E
474. ~Code 11-Max Length	N/A	16 4E 64 50 62 XX XX XX 2E
475. Codabar-Allow	QaXaZa	16 51 61 58 61 5A 61 2E
476. Codabar-Forbid	QaXaPa	16 51 61 58 61 50 61 2E
477. Codabar-No check	IbNeRa	16 49 62 4E 65 52 61 2E
478. Codabar-Enable and transmit	IbNeBb	16 49 62 4E 65 42 62 2E
479. Codabar-Enable and not transmit	IbNeLb	16 49 62 4E 65 4C 62 2E
480. Codabar-Transfer Start and End	QaVdCb	16 51 61 56 64 43 62 2E

Character-Allow		
481. Codabar-Transfer Start and End Character-Forbid	QaVdSa	16 51 61 56 64 53 61 2E
482. Codabar- ABCD/ABCD	WaMbSa	16 57 61 4D 62 53 61 2E
483. Codabar- ABCD/TN*E	WaMbCb	16 57 61 4D 62 43 62 2E
484. ~Codabar -Min length	N/A	16 4E 64 47 63 XX XX XX 2E
485. ~Codabar -Max length	N/A	16 4E 64 48 63 XX XX XX 2E
486. Interleaved 2 of 5-Allow	QaXaAb	16 51 61 58 61 41 62 2E
487. Interleaved 2 of 5-Forbid	QaXaQa	16 51 61 58 61 51 61 2E
488. Interleaved 2 of 5-No check	IbNeNa	16 49 62 4E 65 4E 61 2E
489. Interleaved 2 of 5-Enable and transmit	IbNeXa	16 49 62 4E 65 58 61 2E
490. Interleaved 2 of 5-Enable and not transmit	IbNeHb	16 49 62 4E 65 48 62 2E
491. ~Interleaved 2 of 5 -Min Length	N/A	16 4E 64 53 62 XX XX XX 2E
492. ~Interleaved 2 of 5 -Max Length	N/A	16 4E 64 54 62 XX XX XX 2E
493. Matrix 2 of 5-Allow	QaWaAb	16 51 61 57 61 41 62 2E
494. Matrix 2 of 5-Forbid	QaWaQa	16 51 61 57 61 51 61 2E
495. Matrix 2 of 5-No check	AbBbRa	16 41 62 42 62 52 61 2E
496. Matrix 2 of 5-Enable and transmit	AbBbBb	16 41 62 42 62 42 62 2E
497. Matrix 2 of 5-Enable and not transmit	AbBbLb	16 41 62 42 62 4C 62 2E
498. ~Matrix 2 of 5 -Min Length	N/A	16 4E 64 59 62 XX XX XX 2E

499. ~Matrix 2 of 5 -Max Length	N/A	16 4E 64 5A 62 XX XX XX 2E
500. Industrial 2 of 5-Allow	QaXaVa	16 51 61 58 61 56 61 2E
501. Industrial 2 of 5-Forbid	QaXaLa	16 51 61 58 61 4C 61 2E
502. ~Industrial 2 of 5 -Min Length	N/A	16 4E 64 55 62 XX XX XX 2E
503. ~Industrial 2 of 5 -Max Length	N/A	16 4E 64 56 62 XX XX XX 2E
504. Standard 2 of 5-Allow	QaWaZa	16 51 61 57 61 5A 61 2E
505. Standard 2 of 5-Forbid	QaWaPa	16 51 61 57 61 50 61 2E
506. ~Standard 2 of 5 -Min Length	N/A	16 4E 64 57 62 XX XX XX 2E
507. ~Standard 2 of 5 -Max Length	N/A	16 4E 64 58 62 XX XX XX 2E
508. NEC 2 of 5-Allow	SaYdWa	16 53 61 59 64 57 61 2E
509. NEC 2 of 5-Forbid	SaYdMa	16 53 61 59 64 4D 61 2E
510. NEC 2 of 5-No check	CbYdNa	16 43 62 59 64 4E 61 2E
511. NEC 2 of 5-Enable and transmit	CbYdHb	16 43 62 59 64 48 62 2E
512. NEC 2 of 5-Enable and not transmit	CbYdXa	16 43 62 59 64 58 61 2E
513. ~ NEC 2 of 5 -Min Length	N/A	16 4E 64 41 63 XX XX XX 2E
514. ~ NEC 2 of 5 -Max Length	N/A	16 4E 64 42 63 XX XX XX 2E
515. MSI-Allow	QaYaXa	16 51 61 59 61 58 61 2E
516. MSI-Forbid	QaYaNa	16 51 61 59 61 4E 61 2E
517. MSI-No check	SbOeQa	16 53 62 4F 65 51 61 2E
518. MSI- Mode10 Enable and not transmit	SbOeOc	16 53 62 4F 65 51 63 2E
519. MSI-two Mode10 Enable and not	SbOeld	16 53 62 4F 65 49 64 2E

transmit		
520. MSI- Mode10&Mode11 Enable and not transmit	SbOeYc	16 53 62 4F 65 59 63 2E
521. MSI- Mode10 Enable and transmit	SbOeAb	16 53 62 4F 65 41 62 2E
522. MSI- Mode10&Mode11 Enable and transmit	SbOeKb	16 53 62 4F 65 4B 62 2E
523. MSI-two Mode10 Enable and transmit	SbOeUb	16 53 62 4F 65 55 62 2E
524. ~MSI -Min Length	N/A	16 4E 64 43 63 XX XX XX 2E
525. ~MSI -Max Length	N/A	16 4E 64 44 63 XX XX XX 2E
526. Telepen-Allow	QaWaCb	16 51 61 57 61 43 62 2E
527. Telepen -Forbid	QaWaSa	16 51 61 57 61 53 61 2E
528. Telepen-Number Type	QaWaBb	16 51 61 57 61 42 61 2E
529. Telepen-Letter+Number Type	QaWaRa	16 51 61 57 61 52 62 2E
530. ~Telepen -Min Length	N/A	16 4E 64 51 62 XX XX XX 2E
531. ~Telepen -Max Length	N/A	16 4E 64 52 62 XX XX XX 2E
532. Trioptic -Allow	QaZaXa	16 51 61 5A 61 58 61 2E
533. Trioptic -Forbid	QaXaNa	16 51 61 58 61 4E 61 2E
534. BC412-Allow	WaMbVa	16 57 61 4D 62 4C 61 2E
535. BC412-Forbid	WaMbLa	16 57 61 4D 62 56 61 2E
536. ~BC412 -Min Length	N/A	16 4F 64 57 63 XX XX XX 2E
537. ~BC412-Max Length	N/A	16 4F 64 58 63 XX XX XX 2E

538. Febraban-Allow(ITF25)	WaNbVa	16 57 61 4E 62 56 61 2E
539. Febraban -Forbid(ITF25)	WaNbLa	16 57 61 4E 62 4C 61 2E
540. Febraban-Allow(Code128)	WaNbWa	16 57 61 4E 62 57 61 2E
541. Febraban -Forbid(Code128)	WaNbMa	16 57 61 4E 62 4D 61 2E
542. Febraban-Allow Check	WaNbXa	16 57 61 4E 62 58 61 2E
543. Febraban-Forbid Check	WaNbNa	16 57 61 4E 62 4E 61 2E
544. UPC-A Coupon-Allow	QaZaAb	16 51 61 5A 61 41 62 2E
545. UPC-A Coupon-Forbid	QaZaQa	16 51 61 5A 61 51 61 2E
546. EAN-13(99) Coupon-Allow	QaGbAb	16 51 61 47 62 41 62 2E
547. EAN-13(99) Coupon-Forbid	QaGbAa	16 51 61 47 62 41 61 2E
548. QR Code-Allow	QaCbXa	16 51 61 43 62 58 61 2E
549. QR Code-Forbid	QaCbNa	16 51 61 43 62 4E 61 2E
550. QR Code-Only Forward	QaCbOa	16 51 61 43 62 4F 61 2E
551. QR Code-Forward+Backward	AbCbYa	16 51 61 43 62 59 61 2E
552. QR Code –Append Allow	SaOcBb	16 53 61 4F 63 42 62 2E
553. QR Code –Append Forbid	SaOcRa	16 53 61 4F 63 52 61 2E
554. ~QR Code-Min Length(Low Bytes)	N/A	16 4E 64 59 64 XX XX XX 2E
555. ~QR Code-Min Length(High Bytes)	N/A	16 4E 64 5A 64 XX XX XX 2E
556. ~QR Code-Max Length(Low Bytes)	N/A	16 4E 64 41 65 XX XX XX 2E
557. ~QR Code-Max Length(High Bytes)	N/A	16 4E 64 42 65 XX XX XX 2E
558. Micro QR Code-Allow	QaCbAb	16 51 61 43 62 41 62 2E

559. Micro QR Code-Forbid	QaCbQa	16 51 61 43 62 51 61 2E
560. Micro QR Code-Only Forward	QaCbRa	16 51 61 43 62 52 61 2E
561. Micro QR Code-Forward+Backward	QaCbBb	16 51 61 43 62 42 62 2E
562. Data Matrix-Allow	QaBbYa	16 51 61 42 62 59 61 2E
563. Data Matrix-Forbid	QaBbOa	16 51 61 42 62 4F 61 2E
564. Data Matrix-Read Rectangular Code-Allow	QaBbWa	16 51 61 42 62 57 61 2E
565. Data Matrix-Read Rectangular Code-Forbid	QaBbMa	16 51 61 42 62 4D 61 2E
566.		
567. Data Matrix -Only Forward	QaBbNa	16 51 61 42 62 4E 61 2E
568. Data Matrix -Forward+Backward	QaBbXa	16 51 61 42 62 58 61 2E
569. ~Data Matrix -Min Length(Low Bytes)	N/A	16 4E 64 55 64 XX XX XX 2E
570. ~Data Matrix -Min Length(High Bytes)	N/A	16 4E 64 56 64 XX XX XX 2E
571. ~Data Matrix -Max Length(Low Bytes)	N/A	16 4E 64 57 64 XX XX XX 2E
572. ~Data Matrix -Max Length(High Bytes)	N/A	16 4E 64 58 64 XX XX XX 2E
573. PDF 417-Allow	QaWaVa	16 51 61 57 61 56 61 2E
574. PDF 417-Forbid	QaWaLa	16 51 61 57 61 4C 61 2E
575. ~PDF 417 -Min Length(Low Bytes)	N/A	16 4E 64 47 64 XX XX XX 2E
576. ~PDF 417 -Min Length(High Bytes)	N/A	16 4E 64 48 64 XX XX XX 2E
577. ~PDF 417 -Max Length(Low Bytes)	N/A	16 4E 64 49 64 XX XX XX 2E

578. ~PDF 417 -Max Length(High Bytes)	N/A	16 4E 64 4A 64 XX XX XX 2E
579. Micro PDF 417-Allow	QaAbCb	16 51 61 41 62 43 62 2E
580. Micro PDF 417-Forbid	QaAbSa	16 51 61 41 62 53 61 2E
581. ~Micro PDF 417 -Min Length(Low Bytes)	N/A	16 4E 64 4B 64 XX XX XX 2E
582. ~Micro PDF 417 -Min Length(High Bytes)	N/A	16 4E 64 4C 64 XX XX XX 2E
583. ~Micro PDF 417 -Max Length(Low Bytes)	N/A	16 4E 64 4D 64 XX XX XX 2E
584. ~Micro PDF 417 -Max Length(High Bytes)	N/A	16 4E 64 4E 64 XX XX XX 2E
585. MaxiCode-Allow	QaCbZa	16 51 61 43 62 5A 61 2E
586. MaxiCode-Forbid	QaCbPa	16 51 61 43 62 50 61 2E
587. ~MaxiCode -Min Length	N/A	16 4E 64 53 64 XX XX XX 2E
588. ~MaxiCode -Max Length	N/A	16 4E 64 54 64 XX XX XX 2E
589. Aztec -Allow	QaCbVa	16 51 61 43 62 56 61 2E
590. Aztec-Forbid	QaCbLa	16 51 61 43 62 4C 61 2E
591. Aztec -Only Forward	QaCbMa	16 51 61 43 62 4D 61 2E
592. Aztec -Forward+Backward	QaCbWa	16 51 61 43 62 57 61 2E
593. ~Aztec -Min Length(Low Bytes)	N/A	16 4E 64 4F 64 XX XX XX 2E
594. ~Aztec -Min Length(High Bytes)	N/A	16 4E 64 50 64 XX XX XX 2E
595. ~Aztec -Max Length(Low Bytes)	N/A	16 4E 64 51 64 XX XX XX 2E

596. ~Aztec -Max Length(High Bytes)	N/A	16 4E 64 52 64 XX XX XX 2E
597. HanXin-Allow	SaRdWa	16 53 61 52 64 57 61 2E
598. HanXin-Forbid	SaRdMa	16 53 61 52 64 4D 61 2E
599. ~HanXin -Min Length(Low Bytes)	N/A	16 4E 64 43 65 XX XX XX 2E
600. ~HanXin -Min Length(High Bytes)	N/A	16 4E 64 44 65 XX XX XX 2E
601. ~HanXin -Max Length(Low Bytes)	N/A	16 4E 64 45 65 XX XX XX 2E
602. ~HanXin -Max Length(High Bytes)	N/A	16 4E 64 46 65 XX XX XX 2E
603. Pharma Code-Allow	UaNdAb	16 55 61 4E 64 41 62 2E
604. Pharma Code-Forbid	UaNdQa	16 55 61 4E 64 51 61 2E
605. Codablock A-Allow	SaldVa	16 53 61 49 64 56 61 2E
606. Codablock A-Forbid	SaldLa	16 53 61 49 64 4C 61 2E
607. ~ Codablock A -Min Length	N/A	16 4E 64 41 64 XX XX XX 2E
608. ~ Codablock A -Max Length	N/A	16 4E 64 42 64 XX XX XX 2E
609. Codablock F-Allow	SaldWa	16 53 61 49 64 57 61 2E
610. Codablock F-Forbid	SaldMa	16 53 61 49 64 4D 61 2E
611. ~ Codablock F--Min Length(Low Bytes)	N/A	16 4E 64 43 64 XX XX XX 2E
612. ~ Codablock F--Min Length(High Bytes)	N/A	16 4E 64 44 64 XX XX XX 2E
613. ~ Codablock F--Max Length(Low Bytes)	N/A	16 4E 64 45 64 XX XX XX 2E
614. ~ Codablock F--Max Length(High	N/A	16 4E 64 46 64 XX XX XX 2E

Bytes)		
615. Dot Code-Allow	QaZaBb	16 51 61 5A 61 42 62 2E
616. Dot Code-Forbid	QaZaRa	16 51 61 5A 61 52 61 2E
617. Grid Matrix-Allow	WaMbAb	16 57 61 4D 62 41 62 2E
618. Grid Matrix-Forbid	WaMbQa	16 57 61 4D 62 51 61 2E
619. GS1 DataBar 14-Allow	QaAbYa	16 51 61 41 62 59 61 2E
620. GS1 DataBar 14-Forbid	QaAbOa	16 51 61 41 62 4F 61 2E
621. GS1 DataBar Limited-Allow	QaAbZa	16 51 61 41 62 5A 61 2E
622. GS1 DataBar Limited-Forbid	QaAbPa	16 51 61 41 62 50 61 2E
623. GS1 DataBar Expanded-Allow	QaAbAb	16 51 61 41 62 41 62 2E
624. GS1 DataBar Expanded-Forbid	QaAbQa	16 51 61 41 62 51 61 2E
625. ~GS1 DataBar Expanded-Min Length	N/A	16 4E 64 49 63 XX XX XX 2E
626. GS1 DataBar Expanded-Max Length	N/A	16 4E 64 4A 63 XX XX XX 2E
627. GS1 Composte Code-Allow	RaUcBb	16 52 61 55 63 42 62 2E
628. GS1 Composte Code-Forbid	RaUcRa	16 52 61 55 63 52 61 2E
629. GS1-128 Composite-Allow	RaUcAb	16 52 61 55 63 41 62 2E
630. GS1-128 Composite-Forbid	RaUcQa	16 52 61 55 63 51 61 2E
631. UPC Composite-Allow	YaNbZa	16 59 61 4E 62 5A 61 2E
632. UPC Composite-Forbid	YaNbPa	16 59 61 4E 62 50 61 2E
633. ~GS1 Composte Code -Min Length(Low Bytes)	N/A	16 4E 64 4B 63 XX XX XX 2E

634. ~GS1 Compose Code -Min Length(High Bytes)	N/A	16 4E 64 4C 63 XX XX XX 2E
635. ~GS1 Compose Code -Max Length(Low Bytes)	N/A	16 4E 64 4D 63 XX XX XX 2E
636. ~GS1 Compose Code -Max Length(High Bytes)	N/A	16 4E 64 4E 63 XX XX XX 2E
637. TLC 39 Code-Allow	YaObCb	16 59 61 4F 62 43 62 2E
638. TLC 39 Code-Forbid	YaObSa	16 59 61 4F 62 53 61 2E
639. TLC 39 Forced Additional-Allow	XaWdYa	16 58 61 57 64 59 61 2E
640. TLC 39 Forced Additional-Forbid	XaWdOa	16 58 61 57 64 4F 61 2E
641. OCR-Allow	SaBdCb	16 53 61 42 64 43 62 2E
642. OCR-Forbid	SaBdSa	16 53 61 42 64 53 61 2E
643. Passport OCR –Allow	SaBdWa	16 53 61 42 64 57 61 2E
644. Passport OCR –Forbid	SaBdMa	16 53 61 42 64 4D 61 2E
645. OCR Check-Allow	TaDeBb	16 54 61 44 65 42 62 2E
646. OCR Check-Forbid	TaDeRa	16 54 61 44 65 52 61 2E
647. China Post-Allow	QaZaBb	16 51 61 5A 61 42 62 2E
648. China Post-Forbid	QaZaRa	16 51 61 5A 61 52 61 2E
649. ~China Post -Min Length	N/A	16 4E 64 4F 63 XX XX XX 2E
650. ~China Post -Max Length	N/A	16 4E 64 50 63 XX XX XX 2E
651. Korea Post-Allow	SaFdVa	16 53 61 46 64 56 61 2E
652. Korea Post-Forbid	SaFdLa	16 53 61 46 64 4C 61 2E

653. Korea Post-Positive sequence output	SaFdXa	16 53 61 46 64 58 61 2E
654. Korea Post-Reverse output	SaFdNa	16 53 61 46 64 4E 61 2E
655. Korea Post-Open Check	SaFdAb	16 53 61 46 64 41 62 2E
656. Korea Post-Forbid Check	SaFdQa	16 53 61 46 64 51 61 2E
657. ~Korea Post-Min Length	N/A	16 4E 64 51 63 XX XX XX 2E
658. ~Korea Post-Max Length	N/A	16 4E 64 52 63 XX XX XX 2E
659. Australian Post-Allow	SaGdCb	16 53 61 47 64 43 62 2E
660. Australian Post-Forbid	SaGdSa	16 53 61 47 64 53 61 2E
661. Australian Post-Error Correction Bit-Allow	YaTbXa	16 59 61 54 62 58 61 2E
662. Australian Post-Error Correction Bit-Forbid	YaTbNa	16 59 61 54 62 4E 61 2E
663. British Post-Allow	SaGdVa	16 53 61 47 64 56 61 2E
664. British Post-Forbid	SaGdLa	16 53 61 47 64 4C 61 2E
665. USPS Intelligent Mail-Allow	SaldYa	16 53 61 49 64 59 61 2E
666. USPS Intelligent Mail-Forbid	SaldOa	16 53 61 49 64 4F 61 2E
667. Japanese Post-Allow	SaGdBb	16 53 61 47 64 42 62 2E
668. Japanese Post-Forbid	SaGdRa	16 53 61 47 64 52 61 2E
669. Planet Code-Allow	SaGdZa	16 53 61 47 64 5A 61 2E
670. Planet Code-Forbid	SaGdPa	16 53 61 47 64 50 61 2E
671. Planet Code-Transfer check	SaFdYa	16 53 61 46 64 59 61 2E

672. Planet Code-Not Transfer check	SaFdOa	16 53 61 46 64 4F 61 2E
673. Postnet-Allow	SaGdYa	16 53 61 47 64 59 61 2E
674. Postnet-Forbid	SaGdOa	16 53 61 47 64 4F 61 2E
675. Postnet-Transfer check	SaFdZa	16 53 61 46 64 5A 61 2E
676. Postnet-Not Transfer check	SaFdPa	16 53 61 46 64 50 61 2E
677. UPU 4-State-Allow	SaGdWa	16 53 61 47 64 57 61 2E
678. UPU 4-State-Forbid	SaGdMa	16 53 61 47 64 4D 61 2E
679. KIX Code-Allow	SaGdAb	16 53 61 47 64 41 62 2E
680. KIX Code-Forbid	SaGdQa	16 53 61 47 64 51 61 2E
681. ACK/NAK-Allow	WaFbMa	16 57 61 46 62 4D 61 2E
682. ACK/NAK-Forbid	WaFbWa	16 57 61 46 62 57 61 2E
683. Enter/Exit Data Code Setting Mode	BeReGe	16 42 65 52 65 47 65 2E
684. Reset	BeReBd	16 42 65 52 65 42 64 2E

10.8 Appendix 8 Variable Parameter Instruction

For example, the minimum length of Code 128 is 10 and the maximum length is 30.

XX XX XX represents the ASCII code of the specific value of the variable parameter, which is fixed to 3 values.

Therefore, the ASCII code value of 10 is 30 31 30, and the ASCII code value of 30 is 30 33 30.

Finally, the instructions that need to be set correspond to --

~ Code128 Min length	16 4E 64 49 62 30 31 30 2E
~ Code 128 Max length	16 4E 64 4A 62 30 33 30 2E