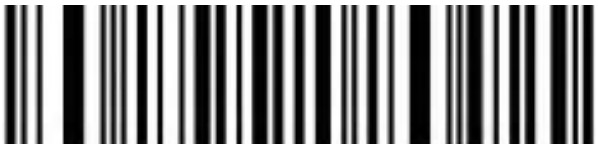
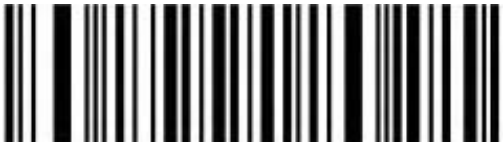
Programming User's Manual
2D Wireless Barcode Scanner
HW-855A

Restore default CCD module



Factory default for wireless module

Firmware CCD module version



Firmware wireless module version

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Wireless module settings

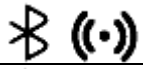
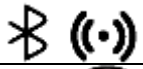
Introduction

Wireless barcode scanner transfers the data to computer via receiver.

If scanner & receiver need to re-pair, scan the “Pairing Function".

LED Description

Indicator Description

Indicator Type	Details Description
Battery	Four bars, charging flash
Wireless status 	Bluetooth/2.4G connection
Pairing 	Bluetooth/2.4G quick flash
Scanner ring light	One flash for one successful scanning Slow flash for pairing mode
Base ring light	One flash for one successful data transferring Slow flash for pairing mode

Buzzer Description

Voice Type	Details Description
One medium long high voice	Successful pairing
One long and three short voice	Back from sleep
One short and long voice (Prompt, Successful)	Successfully reading code
Three continuous short voice	Alarm prompt

CCD module Default Settings

Scanning the below barcode can restore the CCD module scanner the default.

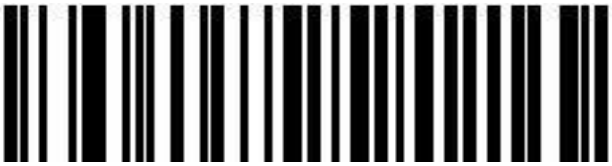
Restore default CCD module

Wireless module Default Setting

Default setting for wireless module

Scanning the below barcode can restore the wireless module scanner the default.

Firmware Version CCD module.



Firmware CCD module version

Firmware Version wireless module

Firmware wireless module version

Battery Display

Display battery capacity

Note: Percentage display

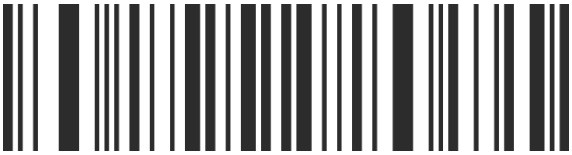
USB cable Output Mode

USB priority output (Default)

If a USB cable is connected to the reader, data will only be sent via this port.

Output simultaneously USB and wireless

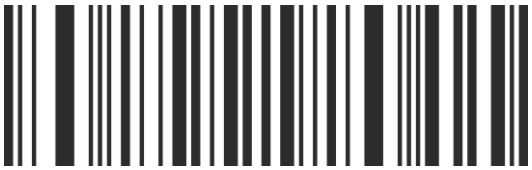
Data Transfer Mode



Immediate (Default)

Automatic Storage

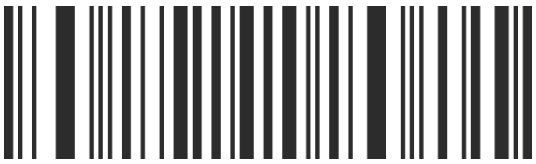
Note: Automatic storage mode. Data is automatically saved in scanner when exceed communication distance, scan the "Upload all data" code to complete the data transfer.



Memory

Note: Memory mode, the scanned barcode will be automatically saved in scanner. If the data need to be viewed or uploaded, then scan the “Upload all data” code to complete the data transfer.

Memory mode



Upload all data

Clear all data

Note: Clear all data can be effective under Memory mode & Automatic Storage mode.

Display stored data

USB Interface Type

USB-HID (Default)

USB-COM
(For old OS Driver is needed for USB Virtual Com Port)

Wireless Setting

2.4 Ghz (Default)

Bluetooth HID Mode

Bluetooth SPP Mode

Note: Scan the Bluetooth code change to Bluetooth mode. When the scanner is restored, for Bluetooth mode scan the code again.

In Bluetooth SPP Mode recommended set Never Sleep.

Bluetooth HID transmission rate

Fast

Medium (Default)

Low

IOS show/hide the Keyboard

(Under Bluetooth mode)

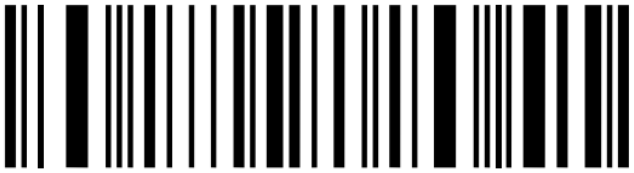
Show or Hide

Pairing Function

2.4G Receiver Pairing

Note: Scan this code, scanner will enter the automatic pairing mode for 1 minute, then re-insert the receiver. There will be a sound heard when pairing successfully.

For Bluetooth pairing setting, search by Bluetooth device.

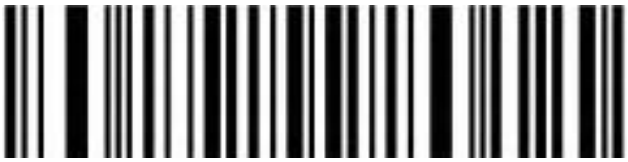


Bluetooth HID Pairing

Scan the “Bluetooth HID Pairing” barcode, the scanner is ready to be connected by other bluetooth devices.

Sleeping Settings

Different Sleeping time choices:



Never Sleep

10s

30s

1min

2min

5min (Default)

10min

30min

Immediate sleep – Sleep Now

Keyboard Language Settings

USA (Default)

Germany

France

Italy

Canada

Spain

Brazil

Sweden

Portugal

Belgium

Turkey-F

Turkey-Q

Poland

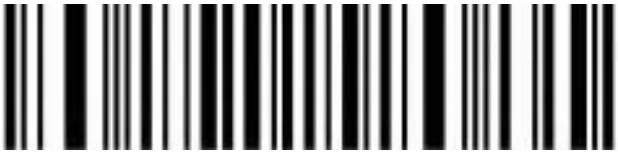
Finland

Latin America

Serbia

Hungary

Denmark

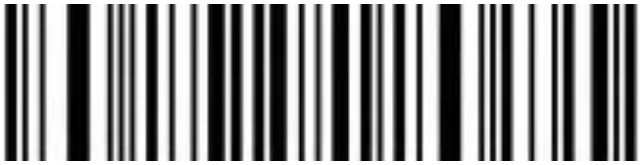


Norway

Japan

Czech

USB-HID Data type



Keyboard function key (Default)

ALT Mode ON -Universal language

ALT Mode must be set for send low ASCII chars like ETX, STX, LF …

UTF-8 chars Keyboard Conversion

UTF-8 keyboards conversion

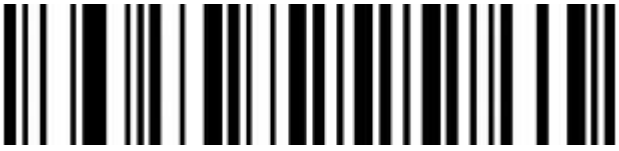
This feature works only in ALT mode.

GS (group separator) Control

Control Character Output for GS Control

This setting is for CCD module only, not for wireless module.l

Disable (Default)



Enable

GS (group separator) character conversion

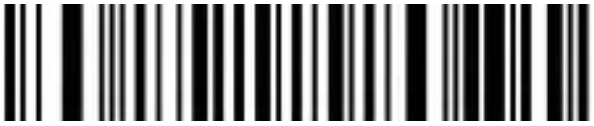
None (Default)

In ALT mode transfer GS like CTRL+] (terminal emulation keys).

GS convert to <GS>

GS convert to |

GS convert to]



GS convert to ^]

Letter case conversion

Normal Letter Case (Default)

All Uppercase

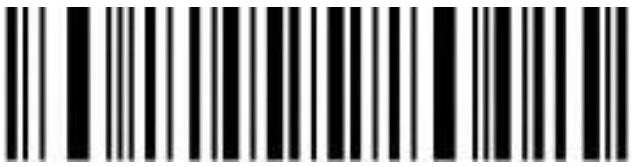
All Lowercase

Case Inversion

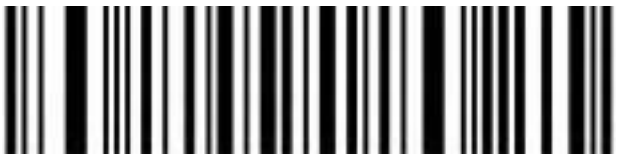
Data Edit

Data sending in this format [Prefix][CodeID][Data][Suffix][Terminator]

Terminator character



None



Enter (Default)

Tab

Add Prefix and Suffix Settings

You can add characters to the front and back of the read data.

The syntax for adding is:

1. Read settings code Add Prefix or Add Suffix

Add Prefix Setting

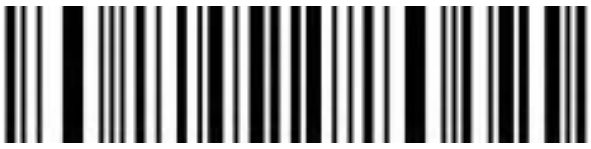
Add Suffix Setting

2. Choose the location from which you want the characters will be added. If you want to add from the first or last position, select 0 1. Perform by reading the appropriate codes corresponding to the numbers in the Appendix - Data Code Table. It is necessary to always read two numbers! The difference between a Prefix and a Suffix is in which side you count the characters from. Prefix - front / Suffix - back.

3. In the Appendix, find the appropriate codes (Tables ASCII Code Table, Function and special keys, Ctrl, Alt, GUI keys) for the characters or keystrokes you want to add. And you will gradually read them with a reader.

4. At the end save your settings, reading the code and Saved Finished Set.

Finished Set for Data Edit



Saved and Finished Set

If you want to clear the settings, follow steps 1 and 4 only.

Note: For a better explanation, look at the examples in the Appendix.

Hidden Character Settings

You can cut-hide characters in retrieved data. You can cut from the front or back.

The syntax for hide is:

1. Read settings code Hide front or Hide back character

Hide front character

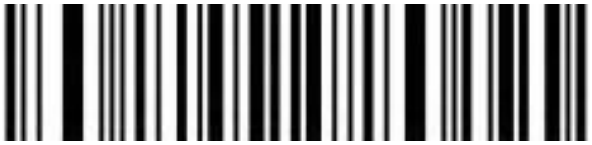
Hide back character

2. Select the location from which you want to hide the characters. If you want to hide from the first or last position, select 0 1. Perform by reading the appropriate codes corresponding to the numbers in the Appendix - Data Code Table. It is necessary to always read two numbers!
   The difference between a Hide front and a Hide back is in which side you count the characters from.

3. Now select how many characters you want to hide. Again, select two numbers from the table in the appendix, similar to point 2.

4. At the end save your settings, reading the code and Saved Finished Set.

Finished Set for Data Edit



Saved and Finished Set

If you want to clear the settings, follow steps 1 and 4 only.

Note: For a better explanation, look at the examples in the Appendix.

Scan Mode

Auto Sense Mode off

Decoding by pulling the trigger of the scanner when auto sense mode is off. It's default mode.

Off（Default）

Auto Sense Mode on

The scanner can sense barcode for decoding automatically.

On

Repeat Barcode Detection

Use for decode same barcode of interval time, it will decode only one time if not exceeded set time.

500ms

750ms（Default）

1s

2s

Buzzer Configuration

Base Voice Setting

Enable Base Voice (default)

Disable Base Voice

Prompt Tone Volume Setting

Off

High (Default)

Medium

Low

Prompt Tone Setting

Sound frequency 2048Hz

Sound frequency 2700Hz

Successfully Decode Prompt Tone Setting

Off

On (Default)

Successfully Decode Prompt Audio Frequency Setting (Tone)

1 (Default)

2

3

Custom

Successfully Decode Prompt Duration Setting

Long (Default)

Short

Error Warning Prompt Frequency Setting (Tone)

There will be four consecutive error warning tones if data transmission fails, and a single error warning tone when the unrecognized configuration code is scanned.

Low（Default）

Middle

High

Code ID

Please check Code ID from barcode type ID Table

Off（Default）

Before Switch on

After Switch On

AIM ID

Please check AIM ID from AIM ID Table

Off (Default)

Before Switch On

After Switch On

Inverse color barcode selection

（Only 1D/DataMatrix/Aztec）

Normal Color

Inverse Color

Both (Normal/Inverse)

Barcode Type Selection

Enable/Disable All barcodes

Enable all barcodes will low down decoding speed. So, we suggest you switch on scanner when needed.

(Default is switch on state)

Enable All

Disable All

Enable/Disable All 1D barcodes

Enable All

Disable All

Enable/Disable All 2D barcodes

Enable All

Disable All

Codabar

Enable

Disable

Codabar Start/Terminal Character

Not Send Codabar Start/Terminal Character（Default）

Send Codabar Start/Terminal Character

Set Length Range For Codabar

Minimum Length（0~50bit）

Maximum Length（0~50bit）

Code 39

Enable

Disable

Code 39 Parity Check

Disable（Default）

Enable But Not Transfer

Enable & Transfer

Code 39 Full ASCII

Enable

Disable（Default）

Set Length Range For Code 39

Minimum Length （0~50bit）

Maximum （0~50bit）

Code 32(Enable code39 first)

Enable

Disable

Code 32 Prefix

Enable

Disable

Interleaved 2 of 5（ITF25）

Enable

Disable

Interleaved 2 of 5（ITF25）Check Bit

Disable Check Bit (Default)

Enable Check and Not Send Check Bit

Enable Check & Send Check Bit

Interleaved 2 of 5（ITF25）Length Selection

Random Length（6-50bit） （Default）

6 Bit

8 Bit

10 Bit

12 Bit

14 Bit

16 Bit

18 Bit

20 Bit

22 Bit

24 Bit

Set Length Range for Interleaved 2 of 5

Minimum（0~50bit）

Maximum（0~50bit）

Industrial 2 of 5

Enable

Disable

Set Length Range for Industrial 2 of 5

Minimum（0~50bit）

Maximum（0~50bit）

Matrix 2 of 5（4-24bit）

Enable

Disable

Set Length Range for Matrix 2 of 5

Minimum（0~50bit）

Maximum（0~50bit）

Code 93

Enable

Disable

Set Length Range for Code 93

Minimum（0~50bit）

Maximum（0~50bit）

Code 11

Enable

Disable (Default)

Code 11 Parity Check Output

Enable

Disable（Default）

Code 11 Parity Selection

Disable（Default）

1 Bit

2 Bit

Set Length Range for Code 11

Minimum（0~50bit）

Maximum（0~50bit）

Code 128

Enable

Disable

GS1-128

Enable

Disable

Set Length Range for CODE-128

Minimum（0~50bit）

Maximum（0~50bit）

UPC-A

Enable

Disable

UPC-A Check Bit

Send UPC-A Check Bit（Default）

Not send UPC-A Check Bit

UPC-A Convert to EAN-13

Enable UPC-A convert to EAN-13

Disable UPC-A convert to EAN-13 (Default)

UPC-E

Enable

Disable

UPC-E Check Bit

Send UPC-E Check Bit （Default）

Not send UPC-E Check bit

UPC-E Expand to UPC-A

Enable

Disable (Default)

EAN/JAN-8

Enable

Disable

EAN-8 Convert to EAN-13

Disable EAN-8 convert to EAN-13

Enable EAN-8 convert to EAN-13

EAN/JAN-13

Enable

Disable

UPC/EAN/JAN Add on code

Ignore UPC/EAN/JAN（Default）

Decode UPC/EAN/JAN

Custom UPC/EAN/JANA add on code

EAN13 Convert to ISBN

Enable

Disable（Default）

EAN13 Convert to ISSN

Enable

Disable（Default）

GS1 DataBar（RSS14）

Enable

Disable

GS1 DataBar Limited

Enable

Disable

GS1 DataBar Expanded

Enable

Disable

PDF417

Enable

Disable

Micro PDF417

Enable

Disable

QR Code

Enable

Disable

QR Code URL Link

Disable

Enable

Micro QR

Enable

Disable

Data Matrix

Enable

Disable

Aztec Code

Enable

Disable

Appendix

Data Code Table

	0	
1		2
	3	
4		5
	6	
7		8
	9	

Saved and Finished Set

ASCII Code Table

Some special characters are conditioned by the keyboard emulation used. ALT-Mode vs. ASCII mode

	&400& SOH	
&401& SOH (start of headline)	&402& STX (start of text)	&403& ETX
&404& EOT	&405& ENQ	&406& ACK
&407& BEL	&408& BS	&409& HT
&40A& LF	&40B& VT	&40C& FF
&40D& CR	&40E& SO	&40F& SI
&410& DLE	&411& DC1	&412& DC2
&413& DC3	&414& DC4	&415& NAK
&416& SYN	&417& ETB	&418& CAN
&419& EM	&41A& SUB	&41B& ESC
&41C& FS	&41D& GS	&41E& RS

 ^&41F&^ US	 ^&420&^ SP	 ^&421&^ !
 ^&422&^ “	 ^&423&^ #	 ^&424&^ $
 ^&425&^ %	 ^&426&^ &	 ^&427&^ .
 ^&428&^ (	 ^&429&^)	 ^&42A&^ *
 ^&42B&^ +	 ^&42C&^ ,	 ^&42D&^ -
 ^&42E&^ .	 ^&42F&^ /	 ^&430&^ 0
 ^&431&^ 1	 ^&432&^ 2	 ^&433&^ 3
 ^&434&^ 4	 ^&435&^ 5	 ^&436&^ 6
 ^&437&^ 7	 ^&438&^ 8	 ^&439&^ 9
 ^&43A&^ :	 ^&43B&^ ;	 ^&43C&^ <
 ^&43D&^ =	 ^&43E&^ >	 ^&43F&^ ?
 ^&440&^ @	 ^&441&^ A	 ^&442&^ B

 ^&443&^ C	 ^&444&^ D	 ^&445&^ E
 ^&446&^ F	 ^&447&^ G	 ^&448&^ H
 ^&449&^ I	 ^&44A&^ J	 ^&44B&^ K
 ^&44C&^ L	 ^&44D&^ M	 ^&44E&^ N
 ^&44F&^ O	 ^&450&^ P	 ^&451&^ Q
 ^&452&^ R	 ^&453&^ S	 ^&454&^ T
 ^&455&^ U	 ^&456&^ V	 ^&457&^ W
 ^&458&^ X	 ^&459&^ Y	 ^&45A&^ Z
 ^&45B&^ [	 ^&45C&^ \	 ^&45D&^]
 ^&45E&^ ^	 ^&45F&^ -	 ^&460&^ ,
 ^&461&^ a	 ^&462&^ b	 ^&463&^ c

 ^&464&^ d	 ^&465&^ e	 ^&466&^ f
 ^&467&^ g	 ^&468&^ h	 ^&469&^ i
 ^&46A&^ j	 ^&46B&^ k	 ^&46C&^ l
 ^&46D&^ m	 ^&46E&^ n	 ^&46F&^ o
 ^&470&^ p	 ^&471&^ q	 ^&472&^ r
 ^&473&^ s	 ^&474&^ t	 ^&475&^ u
 ^&476&^ v	 ^&477&^ w	 ^&478&^ x
 ^&479&^ y	 ^&47A&^ z	 ^&47B&^ [
 ^&47C&^ |	 ^&47D&^]	 ^&47E&^ ~

Function and special keys

 &47F& DEL	 &480& Caps Lock	 &481& F1
 &482& F2	 &483& F3	 &484& F4
 &485& F5	 &486& F6	 &487& F7
 &488& F8	 &489& F9	 &48A& F10
 &48B& F11	 &48C& F12	 &48D& PrintScreen
 &48E& Scroll Lock	 &48F& Pause	 &490& Insert
 &491& Home	 &492& PageUp	 &493& Delete
 &494& PageDown	 &495& End	 &496& RightArrow
 &497& LeftArrow	 &498& DownArrow	 &499& UpArrow
 &49A& Num Lock(keypad)	 &49B& /(keypad)	 &49C& *(keypad)
 &49D& -(keypad)	 &49E& +(keypad)	 &49F& Enter(keypad)

1(keypad)	2(keypad)	3(keypad)
4(keypad)	5(keypad)	6(keypad)
7(keypad)	8(keypad)	9(keypad)
0(keypad)	.(keypad)	

Ctrl, Alt, GUI keys

Note: There must always be a combination of pressing and releasing the function key. Otherwise, you will have problems with keyboard shortcuts, and your computer may be locked.

L-Ctrl Press	L-Shift Press	L-Alt Press
L-GUI Press	R-Ctrl Press	R-Shift Press
R-Alt Press	R-GUI Press	
L-Ctrl Release	L-Shift Release	L-Alt Release
L-GUI Release	R-Ctrl Release	R-Shift Release
R-Alt Release	R-GUI Release	

Table of numbers for barcode length range configuration

0		8
1		9
2		A
3		B
4		C
5		D
6		E
7		F

Save

Barcode type ID Table

Code type	HEX	CODE ID (Default)
All codes	99	
Codabar	61	a
Code128	6A	j
Code32	3C	<
Code93	69	i
Code39	62	b
Code11	48	H
EAN-13	64	d
EAN-8	64	d
GS1 DataBar	52	R
GS1-128 (EAN-128)	6A	j
2 of 5 Interleaved 2 of 5	65	e
Matrix 2 of 5	76	v
Industry 2 of 5/IATA	44	D
UPC-A	63	c
UPC-E	63	c
ISBN	42	B
ISSN	6E	n
MSI	6D	m
Aztec Code	7A	z
DataMatrix	75	u
PDF417	72	r
Micro PDF417	53	S
QR Code	51	Q
Micro QR Code	51	Q

AIM ID Table

Code type	AIM ID	Description
Codabar	]Fm	m：0~1
Code128	]C0	m：0，1，2，4
Code32	]A0	
Code93	]G0	
Code39	]Am	m：0，1，3，4，5，7
Code11	]Hm	m：0，1，3，8，9
EAN-13 / EAN-8	]Em	m：0，1，3，4
GS1 DataBar	]e0	
GS1-128 (EAN-128)	]C1	
Interleaved 2 of 5	]Im	m：0，1，3
Matrix 2 of 5	]X0	
Industry 2 of 5	]S0	
UPC-A/ UPC-E	]Em	m：0，3
ISBN	]X0	
ISSN	]X0	
Aztec Code	]z0	
DataMatrix	]dm	m: 0~6
PDF417 / Micro PDF417	]Lm	m: 0~5
QR Code / Micro QR Code	]Qm	m: 0~6

Visible Character ASCII Table

Dec	*Hex*	Char	Dec	*Hex*	Char	Dec	*Hex*	*Char*
32	*20*	**<SPACE>**	*64*	*40*	**@**	*96*	*60*	**`**
33	*21*	**!**	*65*	*41*	**A**	*97*	*61*	**a**
34	*22*	**“**	*66*	*42*	**B**	*98*	*62*	**b**
35	*23*	**#**	*67*	*43*	**C**	*99*	*63*	**c**
36	*24*	**$**	*68*	*44*	**D**	*100*	*64*	**d**
37	*25*	**%**	*69*	*45*	**E**	*101*	*65*	**e**
38	*26*	**&**	*70*	*46*	**F**	*102*	*66*	**f**
39	*27*	**‘**	*71*	*47*	**G**	*103*	*67*	**g**
40	*28*	**(**	*72*	*48*	**H**	*104*	*68*	**h**
41	*29*	**)**	*73*	*49*	**I**	*105*	*69*	**i**
42	*2A*	*****	*74*	*4A*	**J**	*106*	*6A*	**j**
43	*2B*	**+**	*75*	*4B*	**K**	*107*	*6B*	**k**
44	*2C*	**,**	*76*	*4C*	**L**	*108*	*6C*	**l**
45	*2D*	**-**	*77*	*4D*	**M**	*109*	*6D*	**m**
46	*2E*	**.**	*78*	*4E*	**N**	*110*	*6E*	**n**
47	*2F*	**/**	*79*	*4F*	**O**	*111*	*6F*	**o**
48	*30*	**0**	*80*	*50*	**P**	*112*	*70*	**p**
49	*31*	**1**	*81*	*51*	**Q**	*113*	*71*	**q**
50	*32*	**2**	*82*	*52*	**R**	*114*	*72*	**r**
51	*33*	**3**	*83*	*53*	**S**	*115*	*73*	**s**
52	*34*	**4**	*84*	*54*	**T**	*116*	*74*	**s**
53	*35*	**5**	*85*	*55*	**U**	*117*	*75*	**u**
54	*36*	**6**	*86*	*56*	**V**	*118*	*76*	**v**
55	*37*	**7**	*87*	*57*	**W**	*119*	*77*	**w**
56	*38*	**8**	*88*	*58*	**X**	*120*	*78*	**x**
57	*39*	**9**	*89*	*59*	**Y**	*121*	*79*	**y**
58	*3A*	**:**	*90*	*5A*	**Z**	*122*	*7A*	**z**
59	*3B*	**;**	*91*	*5B*	**[**	*123*	*7B*	**{**
60	*3C*	**<**	*92*	*5C*	****	*124*	*7C*	**|**
61	*3D*	**=**	*93*	*5D*	**]**	*125*	*7D*	**}**
62	*3E*	**>**	*94*	*5E*	**^**	*126*	*7E*	**~**
63	*3F*	**?**	*95*	*5F*	**_**			

Invisible Character ASCII Table

Decimal	Hexadecimal	Character
00	00	NUL
01	01	SOH
02	02	STX
03	03	ETX
04	04	EOT
05	05	ENQ
06	06	ACK
07	07	BEL
08	08	BS
09	09	HT
10	0A	LF
11	0B	VT
12	0C	FF
13	0D	CR
14	0E	SO
15	0F	SI
16	10	DLE
17	11	DC1
18	12	DC2
19	13	DC3
20	14	DC4
21	15	NAK
22	16	SYN
23	17	ETB
24	18	CAN
25	19	EM
26	1A	SUB
27	1B	ESC
28	1C	FS
29	1D	GS
30	1E	RS
31	1F	US

Example for user-defined prefix and suffix:

Example 1.1:

Set ”XYZ” to the second position in the codes.

For example data in code is: 1234567890 - And it should look like this: 1**XYZ**234567890

1. Read code from Add Prefix

Add Prefix Setting

2. Add to the second position, select two number from Appendix - Data Code Table - reading the appropriate codes corresponding to the numbers -> **0** and **2**.

0

2

3. In the Appendix, find the appropriate codes for chars X Y Z (Tables ASCII Code Table) to add. And you will gradually read them with a reader. **X** and **Y** and **Z**.

X

Y

Z

4. Save this settings reading code **Saved and Finished Set**.

Saved and Finished Set

Example 1.2:

Set two **Arrow Down** as last keystroke (remember that the last character is a terminator-CR).

1. Read code from Add Prefix

Add Suffix Setting

2. Add to the last position, select two number from Appendix - Data Code Table - reading the appropriate codes corresponding to the numbers-> **0** and **1**.

0

1

3. In the Appendix, find the appropriate codes for Arrows Down (Function and special keys Tables) to add. And you will gradually read them with a reader. **Arrows down .**

DownArrow

DownArrow

4. Save this settings reading code **Saved and Finished Set**.

Saved and Finished Set

Example for Hidden Character Settings

Hide two chars from second position.

For example data in code is: 1234567890 - And it should look like this: 14567890

1. Read settings code Hide front character

Hide front character

2. Select second position select two number from Appendix - Data Code Table - reading the appropriate codes corresponding to the numbers -> **0** and **2**.

0

2

3. Now select how many characters you want to hide. Again, select two numbers from the table in the appendix, similar to point 2. -> **0** and **2**.

0

2

4. Save this settings reading code **Saved and Finished Set**.

Saved and Finished Set

Example for barcode length range configuration

Please sure it not bigger than current maximum length range when set up minimum length. Otherwise, it will show error. In the same way, must be make sure it's not smaller than current minimum length range when set up maximum length. Please for numbers and Save settings code only for Appendix ***Table of numbers for barcode length range configuration***!!!

Example 2.1:

Set Code 128 length range is 4-12bit

Step: Set "Code 128 Minimum (0~50bit)"; Set "4"; Set "Save"

Set "Code 128 Maximum (0+-50bit)"; Set "1" "2"; Set "Save"

Example 2.2:

Set Interleaved 2 of 5 length is 14bit
It can set up by "ITF25 14bit", through barcode length range of Maximum /Minimum to set,too.
Step: Set "Interleave 2 of 5 Minimum (0~50bit)"; Set "1" "4"; Set "Save" Set "Interleave 2 of 5 Maximum (0+50bit)"; Set "1" "4"; Set "Save"

Example 2.3:

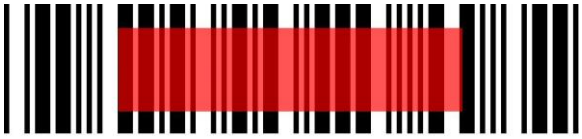
Set Code 39 length is random length
Step: Set "Code 39 Minimum (0~50bit)"; Set "0"; Set "Save"
Set "Code 39 Maximum (0+50bit)"; Set "0"; Set "Save"

Read Skills

To get a good reading performance, a beam of aim light from scanner should be aimed at the centre of barcode, support to aim in any directions for read convenient, too.

More nearly barcode, the beam of aim light is smaller; More further barcode, the beam of aim light bigger. For reading barcode correctly, if barcode small, the scanner should be close to barcode, if barcode big, the scanner should be farther to barcode.

If the barcode is highly reflective (for example: coated surface), please adjust the scanner angle to read it successfully.



Safety

Please not direct aim eye when the scanner has a strong ray of light, to avoid causing any hurt or unwell.