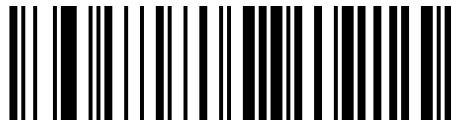




# Programming User's Manual 2D Wireless Barcode Scanner HW-857A

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Restore default CCD module



Factory default for wireless module



Firmware wireless module version

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## Part I: Wireless Function Setting

### Operating Instructions

#### **Button Instruction**

1. In the power-off state, short press the button once and the scanner will emit three short sounds. Release the button and the scanner will switch to the power-on state;
2. In the power-on state, short press the button once, the module light of the scanner will light up and the scanner will be in scanning mode;
3. In the power-on state, press and hold the button for 10 seconds, the scanner will emit three short high & low sounds and enter the power-off state.

#### **LED Light Instruction**

Red LED light -----Charging indicator light

- 1) The breath light flash indicates the scanner is charging;
- 2) When the battery is fully charged, the red LED light keeps on;

Blue LED light(Bluetooth mode)/Green LED light(2.4G mode) -----Wireless mode indicator light

- 1) The barcode is scanned once, the indicator light flashes once;
- 2) When the 2.4G and Bluetooth devices are not connected, the indicator light flashes slowly;
- 3) When a 2.4G or Bluetooth device is connected, the indicator light is always on;
- 4) When the battery is low, the indicator light flashes 3 times;
- 5) When the scanner entering 2.4G or Bluetooth pairing mode, the indicator light flashes quickly and continuously;

#### **Buzzer Instruction**

A short beep ----- state:

- 1) Read normal barcodes successfully;
- 2) Storage data uploaded successfully;

Two high & low short beeps----- state:

- 1) The setup code is set successfully ;
- 2) Data storage success
- 3) USB/2.4G/Bluetooth connection success

Three long beeps ----- state:

- 1) Data storage failed or the flash memory is full;
- 2) Scan barcodes when the scanner is not connected;
- 3) Settings are wrong and settings failed;
- 4) The storage data exceeds the cache capacity;

Three short high & low beeps ----- state:

- 1) USB/2.4G/Bluetooth disconnected ;
- 2) Power-on prompt tone;
- 3) Power-off prompt tone;

## Version No.



^&001&^

Wireless version No.



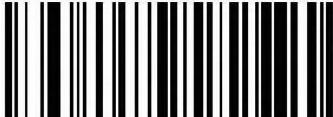
AD001

Scanner version No.



^&F01&^

Receiver version No.



AD000

Check device information

## Factory Default Setting



Firmware wireless module version

## 2.4 G Mode Pairing



^&010&^

2.4G mode

(The scanner is paired with the receiver by factory default)



^&021&^

2.4G receiver pairing

Note:

Step 1: Scan '2.4G mode';

Step 2: Scan '2.4G receiver pairing'

## Bluetooth HID Mode Pairing

After scanning the setup code, the scanner will enter the pairing state, the state lasts for 1 minute.



^&011&^

Bluetooth HID mode

(The scanner will pair with the bluetooth device automatically which is paired before)



^&COF&^

Bluetooth HID pairing

Note:

Step 1: Scan 'Bluetooth HID mode'; Step 2:

Scan 'Bluetooth HID pairing'

## Bluetooth BLE Mode



^&012&^

Bluetooth BLE mode

(Scan this code after pairing the scanner with device by Bluetooth HID mode)

## 2.4 G Keyboard Input Speed

Data key input interval, The time interval between the last button release and the next button press.

Note: The default interval [Middle] is to be compatible with hosts with different performance and operating systems, to ensure data output stability. If data is missing when the system freezes, you need to adjust the key input delay to a longer value.



^&C42&^

Fast(2ms)



^&C43&^

Middle(5ms)\*



^&C44&^

Low(10ms)

## Bluetooth Keyboard Input Speed



^&C22&^

Fast(2ms)



^&C09&^

Middle(5ms)\*



^&C0A&^

Low(10ms)

## Data Upload Mode



^&005&^

Immediate mode\*

(The scanned data is uploaded immediately. If the uploading fails, scanner will make alarm beep and the data will not be saved.)



^&006&^

Inventory mode

(The scanned data will be automatically saved. If you need to view the statistical data or upload data, just scan the corresponding setting barcodes to achieve it.)



^&007&^

Automatic storage mode

(The data will be automatically saved when the connection distance exceeds the range, and automatically uploaded after the connection distance is within the range.)

## Data Processing In Inventory Mode



^&031&^

Check number of stored data



^&030&^

Clear all stored data



^&032&^

Upload all stored data

## USB Receiver Interface Type

Setting the USB interface type will change the USB interface type of both the scanner and receiver.



^&015&^

USB-HID\*



^&016&^

USB-VCOM

## Battery Status



^&037&^

Check battery status

## Volume Setting



^&03A&^

Mute



^&03B&^

High volume\*



^&03D&^

Low volume

## Sleep Time

Note: Press and hold the button for about 10 seconds until the scanner emits three shutdown sounds, then release the button and the scanner will enter sleep mode.



^&040&^

Disable sleep



^&041&^

Enter sleep immediately



^&044&^

Enter sleep after 1 min



^&045&^

Enter sleep after 2 min



^&046&^

Enter sleep after 5 min\*



^&047&^

Enter sleep after 10 min



^&048&^

Enter sleep after 30 min

## Data Edit

### Terminator



^&300&^

None



^&301&^

Enter\*



^&302&^

LF

(In keyboard mode, [↓] is used to change lines.)



^&303&^

TAB



^&304&^

CR/LF

### Hide Characters Setting



^&306&^

Hide the front characters

Note: for quick settings of hiding the front and back characters, please refer to the appendix(page 10) for details.



^&307&^

Hide the back characters

Note: Scan 'Hide the front characters', then scan 'Save and finish setting', the hidden front characters will be cleared.



^&305&^

Save and Finish Setting

Note: Scan 'Hide the back characters', then scan 'Save and finish setting', the hidden back characters will be cleared.

### Prefix And Suffix Setting



^&308&^

Add prefix

Note: Scan 'Add prefix/suffix', then scan the content to be added (please refer to the ASCII code table in the wireless function part appendix), save and finish setting



^&309&^

Add suffix

Note: Scan 'Add prefix', then scan 'Save and finish setting', the added prefix will be cleared.



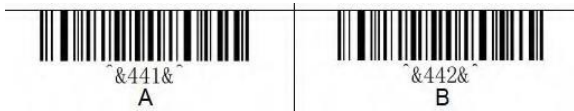
Save and finish setting

Note: Scan 'Add suffix', then scan 'Save and finish setting', the added suffix will be cleared.

## Examples for prefix and suffix

### setting Ex. 1: Set AB prefix

1. Scan 'Add prefix'
2. Scan ASCII data code of [A] [B] in 'ASCII Data Code Table'(page 12)



3. Scan 'Save and finish setting'

### Ex. 2: Set F5 suffix

1. Scan 'Add suffix'
2. Scan ASCII data code of [F5] in 'ASCII Data Code Table'(page 12)



3. Scan 'Save and finish setting'

## Character Replacement Setting



0A replace to 0D

Note: To replace the visible characters or control characters in the barcode content, please use

^&30F&^D40AB format, A is the original character and B is the replacement character. The barcode is generated in hexadecimal format (0x\*\*). If B is 00, the original character will be deleted.



Replace data content A to B

## GS Character Replacement



`^&060&^`

No replacement



`^&061&^`

Replace to <GS>



`^&062&^`

Replace to |



`^&063&^`

Replace to ]



`^&064&^`

Replace to ^]



`^&065&^`

Replace to F8\*

(The default recognition GS (0x1D) corresponds to the keyboard value F8. For details, please refer to the control character table)



`^&066&^`

Switch to custom GS replacement



`^&066&^C2AB`

Replace GS to AB

Note: In the setting code, `^&066&^C` can not be changed. 2 indicates the number of new replacement characters. The maximum number of characters is 8. AB indicates the custom replacement content. You need to generate a new setting code for custom replacement.

### Setting steps for custom GS replacement

Step 1: Switch to custom GS replacement

Step 2: Replace GS to AB

## Convert Case



^&07C&^

Original data\*



^&07D&^

All convert to upper case



^&07E&^

All convert to lower case



^&07F&^

Case inversion

## USB-HID Data Output Type



^&052&^

Unicode\*



^&05F&^

GBK



^&053&^

Unicode(Virtual keyboard)  
(Output correct data in MS Word)



^&054&^

Visible keyboard +≤0x20 direct  
output mode 1



^&056&^

>0x1F direct output mode 2

## Keyboard Layouts



^&080&^

English(United States)\*



^&081&^

German



^&082&^

French



^&083&^

Italian



^&085&^

Spanish(Spain)



^&086&^

Portuguese(Brazil)



^&087&^

Swedish



^&088&^

Portuguese(Portugal)



^&08B&^

Turkish Q



^&090&^

Spanish(Latin America)



^&092&^

Hungarian



^&093&^

Danish



^&094&^

Norwegian



^&095&^

Japanese



^&09E&^

English(UK)



^&09D&^

Czech



^&09C&^

Russian



^&09B&^

Slovak




^&09A&^













Greek

## Appendix

### Hide The Front Characters Quick Setting




Note: By default, the number of digits hidden starts from the first digit













 <sup>^</sup> &601 <sup>^</sup> Hide the first character		 <sup>^</sup> &602 <sup>^</sup> Hide the front 2 characters
	 <sup>^</sup> &603 <sup>^</sup> Hide the front 3 characters	

 <sup>^</sup> &604 <sup>^</sup> Hide the front 4 characters		 <sup>^</sup> &605 <sup>^</sup> Hide the front 5 characters
	 <sup>^</sup> &606 <sup>^</sup> Hide the front 6 characters	
 <sup>^</sup> &607 <sup>^</sup> Hide the front 7 characters		 <sup>^</sup> &608 <sup>^</sup> Hide the front 8 characters
	 <sup>^</sup> &609 <sup>^</sup> Hide the front 9 characters	
 <sup>^</sup> &60A <sup>^</sup> Hide the front 10 characters		 <sup>^</sup> &60B <sup>^</sup> Hide the front 11 characters
	 <sup>^</sup> &60C <sup>^</sup> Hide the front 12 characters	
 <sup>^</sup> &60D <sup>^</sup> Hide the front 13 characters		 <sup>^</sup> &60E <sup>^</sup> Hide the front 14 characters
	 <sup>^</sup> &60F <sup>^</sup> Hide the front 15 characters	

## Hide The Back Characters Quick Setting































Note: By default, the number of digits hidden starts from the last digit

 <code>^&amp;701&amp;^</code> Hide the last character		 <code>^&amp;702&amp;^</code> Hide the last 2 characters
	 <code>^&amp;703&amp;^</code> Hide the last 3 characters	

 <code>^&amp;704&amp;^</code> Hide the last 4 characters		 <code>^&amp;705&amp;^</code> Hide the last 5 characters
	 <code>^&amp;706&amp;^</code> Hide the last 6 characters	
 <code>^&amp;707&amp;^</code> Hide the last 7 characters		 <code>^&amp;708&amp;^</code> Hide the last 8 characters
	 <code>^&amp;709&amp;^</code> Hide the last 9 characters	
 <code>^&amp;70A&amp;^</code> Hide the last 10 characters		 <code>^&amp;70B&amp;^</code> Hide the last 11 characters
	 <code>^&amp;70C&amp;^</code> Hide the last 12 characters	
 <code>^&amp;70D&amp;^</code> Hide the last 13 characters		 <code>^&amp;70E&amp;^</code> Hide the last 14 characters
	 <code>^&amp;70F&amp;^</code> Hide the last 15 characters	













## ASCII Data Code Table




























Note: 0x01-0x20 ASCII code, [ ] is the output key value in the default keyboard mode
















	 ^&400&^ Null	
 ^&401&^ SOH(start of headline) [Insert]	 ^&402&^ STX (start of text) [Home]	 ^&403&^ ETX [End]
 ^&404&^ EOT [Delete]	 ^&405&^ ENQ [Page Up]	 ^&406&^ ACK [Page Down]
 ^&407&^ BEL [ESC]	 ^&408&^ BS [Backspace]	 ^&409&^ HT [Tab]
 ^&40A&^ LF [Enter]	 ^&40B&^ VT [Caps Lock]	 ^&40C&^ FF [Print Screen]
 ^&40D&^ CR [Enter]	 ^&40E&^ SO [Scroll Loc]	 ^&40F&^ SI [Pause/Break]
 ^&410&^ DLE [F11]	 ^&411&^ DC1 [Direction key ↑]	 ^&412&^ DC2 [Direction key ↓]
 ^&413&^ DC3 [Direction key ←]	 ^&414&^ DC4 [Direction key →]	 ^&415&^ NAK [F12]
 ^&416&^ SYN [F1]	 ^&417&^ ETB [F2]	 ^&418&^ CAN [F3]
 ^&419&^ EM [F4]	 ^&41A&^ SUB [F5]	 ^&41B&^ ESC [F6]
 ^&41C&^ FS [F7]	 ^&41D&^ GS [F8]	 ^&41E&^ RS [F9]




^&41F&^ US [F10]	^&420&^ SP [Space]	^&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&^ ~

### Add Ctrl, Shift, Alt, GUI Function Key

Note: Pressing and releasing of the function keys must be used in pairs. Otherwise, there will be hotkey issues such as data can not be uploaded and the computer being locked for no reason.

 ^&4D0&^ L-Ctrl Press	 ^&4D1&^ L-Shift Press	 ^&4D2&^ L-Alt Press
 ^&4D3&^ L-GUI Press	 ^&4D4&^ R-Ctrl Press	 ^&4D5&^ R-Shift Press
 ^&4D6&^ R-Alt Press	 ^&4D7&^ R-GUI Press	
 ^&4D8&^ L-Ctrl Release	 ^&4D9&^ L-Shift Release	 ^&4DA&^ L-Alt Release
 ^&4DB&^ L-GUI Release	 ^&4DC&^ R-Ctrl Release	 ^&4DD&^ R-Shift Release
 ^&4DE&^ R-Alt Release	 ^&4DF&^ R-GUI Release	

Appendix ASCII table

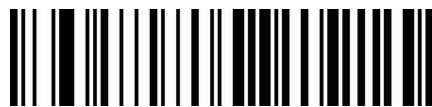
DEC	HEX	Character	DEC	HEX	Character	DEC	HEX	Character
32	20	<SPACE>	64	40	@	96	60	`
33	21	!	65	41	A	97	61	a
34	22	"	66	42	B	98	62	b
35	23	#	67	43	C	99	63	c
36	24	\$	68	44	D	100	64	d
37	25	%	69	45	E	101	65	e
38	26	&	70	46	F	102	66	f
39	27	'	71	47	G	103	67	g
40	28	(	72	48	H	104	68	h
41	29	)	73	49	I	105	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	_			

## Control Character Table(USB-KBW Mode)

DEC	HEX	Key Value(Disable Control Character Escape)	Key Value(Enable Control Character Escape)
0	00	Reserve	Ctrl+@
1	01	Insert	Ctrl+A
2	02	Home	Ctrl+B
3	03	End	Ctrl+C
4	04	Delete	Ctrl+D
5	05	PageUp	Ctrl+E
6	06	PageDown	Ctrl+F
7	07	ESC	Ctrl+G
8	08	Backspace	Ctrl+H
9	09	Tab	Ctrl+I
10	0A	Enter (Output will be influenced by LF settings)	Ctrl+J
11	0B	Caps Lock	Ctrl+K
12	0C	Print Screen	Ctrl+L
13	0D	Enter (Output will be influenced by CR settings)	Ctrl+M
14	0E	Scroll Lock	Ctrl+N
15	0F	Pause/Break	Ctrl+O
16	10	F11	Ctrl+P
17	11	Direction Key↑	Ctrl+Q
18	12	Direction Key↓	Ctrl+R
19	13	Direction Key←	Ctrl+S
20	14	Direction Key→	Ctrl+T
21	15	F12	Ctrl+U
22	16	F1	Ctrl+V
23	17	F2	Ctrl+W
24	18	F3	Ctrl+X
25	19	F4	Ctrl+Y
26	1A	F5	Ctrl+Z
27	1B	F6	Ctrl+[
28	1C	F7	Ctrl+\
29	1D	F8	Ctrl+]
30	1E	F9	Ctrl+^
31	1F	F10	Ctrl+_

## Part II: Scan Module Function Setting

### Factory Default



Restore to default

### Scan Mode

#### Auto Sense Mode off

Scanning by pressing the trigger when auto sense mode is off. It's default mode.



Off (Default)

## Auto Sense Mode on

The scan engine can sense barcode for decoding automatically.



On

## Repeat Barcode Detection

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



500ms



750ms (Default)



1s



2s

## Center Mode

When center mode is turned on, the scan engine only reads the barcode located in the center area, this configuration is disabled as default.



Off (Default)



On

## Light Configuration

### LED Indicator Light



Off



On (Default)

## Code ID

### Output Options



Off (Default)



Enable Code ID Before Barcode



Enable Code ID After Barcode

## Edit



Set Custom Code ID

(Please set up ID Table ,Data, and edit barcode refer to the appendix after scanning.)



Clear All Custom Code ID

## AIM ID



Off (Default)



Enable AIM ID Before Barcode



Enable AIM ID After Barcode

## **Data Edition**

The Data editing function can customize the barcode content into the three fields of Start/Center/End by configuring the Start/End field length.

Please configure the length of the Start/End field and the transport configuration according to the actual needs.

Note: Custom presuffix, start, end, CODE ID, AIM ID and other non-barcode content will not be affected by the data editing function.

## **Transmission Configuration**



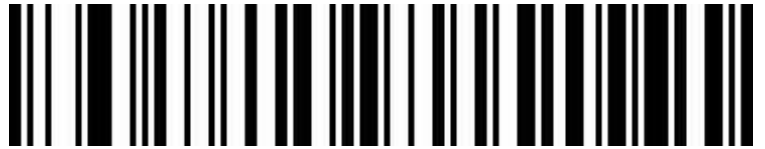
Transfer the full Data field



Only transfer the Start field



Only transfer the Center field



Only transfer the End field

## Field Length Configuration



Set Start field length



Set End field length

## Inverse color barcode selection

(Only 1D/DataMatrix/Aztec)



Normal Color



Inverse Color



Both (Normal/Inverse)

## Non-standard Barcode Option

When non-standard barcode decoding enabled, scanner can be better compatible with some non-standard barcodes, but the probability of reading errors will increase.



Disable(Default)



Enable

## 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

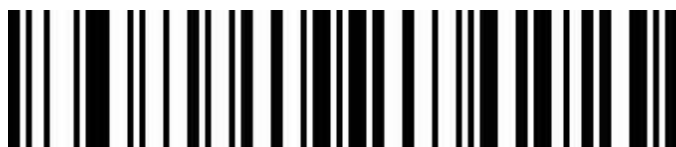


Don't Send Codabar Start/Terminal Character (Default)



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

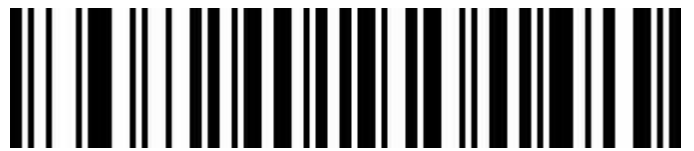


Disable (Default)

## Code 39 Start/Terminal Character



Don't Send Code 39 Start/Terminal Character(Default)



Send Code 39 Start/Terminal Character

### 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(Default)

## Interleaved 2 of 5 (ITF25)



Enable



Disable

## Interleaved 2 of 5 (ITF25) Check Bit



Disable Check Bit (Default)



Enable Check and Don't Send Check Bit



Enable Check & Send Check Bit

### Interleaved 2 of 5 (ITF25) Length Selection



Random Length (6-50bits) (Default)



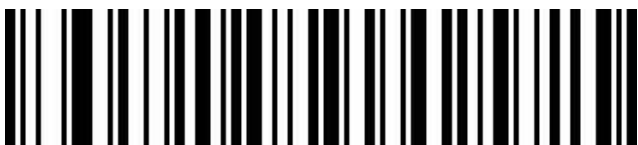
6 Bits



8 Bits



10 Bits



12 Bits



14 Bits



16 Bits



18 Bits



20 Bits

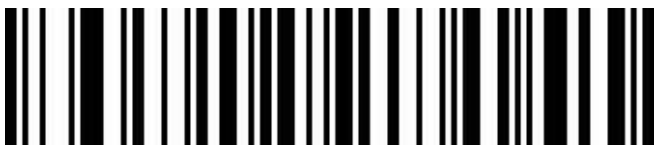


22 Bits



24 Bits

### Set Length Range for Interleaved 2 of 5



Minimum (0~50bits)



Maximum (0~50bits)

## Industrial 2 of 5/IATA



Enable



Disable

## Set Length Range for Industrial 2 of 5



Minimum (0~50bits)



Maximum (0~50bits)

## Matrix 2 of 5 (4-24bit)



Enable



Disable

## Set Length Range for Matrix 2 of 5



Minimum (0~50bits)



Maximum (0~50bits)

## Code 93

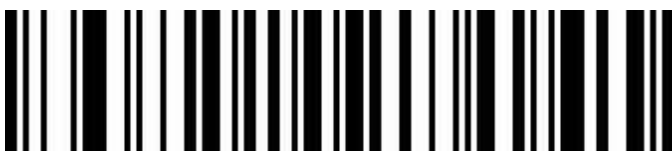


Enable



Disable

## Set Length Range for Code 93



Minimum (0~50bits)



Maximum (0~50bits)

## Code 11



Enable



Disable (Default)

## Code 11 Parity Check Output



Enable



Disable (Default)

## Code 11 Parity Selection



Disable (Default)



1 Bits



2 Bits

### Set Length Range for Code 11



Minimum (0~50bits)



Maximum (0~50bits)

### Code 128



Enable



Disable

### ISBT-128



Disable



Enable

## GS1-128

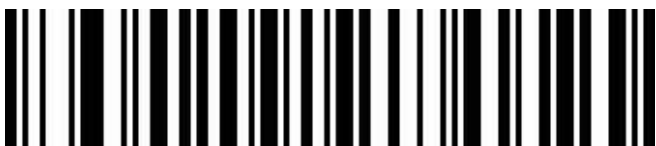


Enable



Disable

## Set Length Range for CODE-128



Minimum (0~50bits)



Maximum (0~50bits)

## UPC-A



Enable



Disable

## UPC-A Check Bit



Send UPC-A Check Bit (Default)



Don't Send UPC-A Check Bit

## UPC-A Leading Digits



Send UPC-A Country Code+System Digits(Convert to EAN-13)



Send UPC-A System Digits(Default)



Don't Send UPC-A System Digits

## UPC-E



Enable



Disable

## UPC-E Check Bit



Send UPC-E Check Bit (Default)



Don't send UPC-E Check bit

## UPC-E Expand to UPC-A



Enable



Disable (Default)

### UPC-E Leading Digits



Send UPC-E Country Code+System Digits



Send UPC-E System Digits(Default)



Don't Send UPC-E System Digits

### EAN/JAN-8



Enable



Disable

## EAN-8 Convert to EAN-13



Disable EAN-8 convert to EAN-13(Default)



Enable EAN-8 convert to EAN-13

## EAN-8 Check Bit



Send EAN-8 Check Bit(Default)



Don't Send EAN-8 Check Bit

## EAN/JAN-13



Enable



Disable

## EAN-13 Check Bit



Send EAN13 Check Bit (Default)



Don't Send EAN13 Check Bit

## UPC/EAN/JAN Additional Code



Ignore Additional Code (Default)



Decode Additional Code



Adaptive Additional Code

## EAN13 Convert to ISBN



Enable



Disable (Default)

**EAN13 Convert to ISSN**



Enable

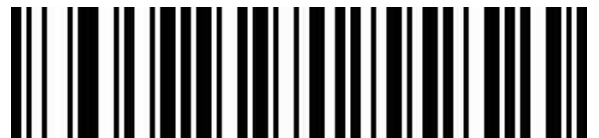


Disable (Default)

**GS1 DataBar (RSS14)**



Enable



Disable

**GS1 DataBar Limited**



Enable



Disable

### GS1 DataBar Expanded



Enable



Disable

### GS1 Composite



Enable



Disable(Default)

### MSI



Enable



Disable(Default)

### MSI Check Bit



Send MSI Check Bit



Don't Send MSI Check Bit(Default)

### MSI Check Bit Option



1 Check Bit(Default)



2 Check Bits

### MSI 2 Check Bits Option



MOD10/MOD10(Default)



MOD10/MOD11

### MSI Code Reading Length Setting



Minimum Reading Length(0-50digits)



Maximum Reading Length(0-50digits)

### Febraban

Note: Please disable AIM ID function before opening Febraban function.

#### Enable/Disable Febraban Code(ITF25)



Enable



Disable(Default)

#### Enable/Disable Febraban code(Code128)

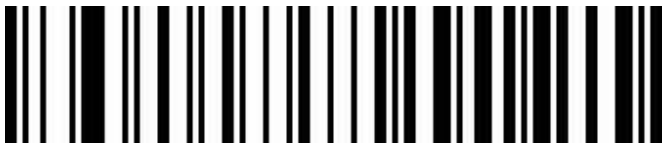


Enable



Disable(Default)

**Febraban Check Bit**



Enable Check Bit

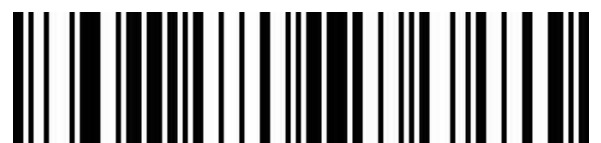


Disable Check Bit(Default)

**PDF417**



Enable



Disable

## Micro PDF417



Enable



Disable

## QR Code



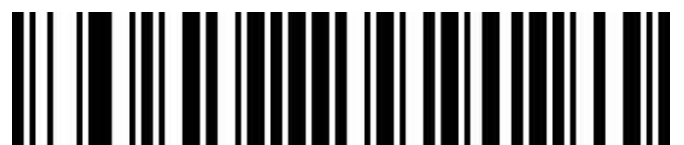
Enable



Disable

## QR Code URL Link

Disable



Enable

## Micro QR



Enable



Disable

## Data Matrix



Enable



Disable

## Aztec Code



Enable



Disable

# Appendix

## Data and Edit barcode



0



1



2



3



4



5



6



7



8



9



A



B



C



D



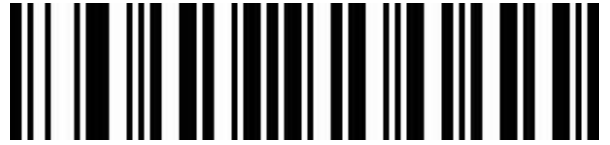
E



F



Cancel Current Setting



Cancel A String of Data from Previous Read



Cancel The Data from Previous Read



Save

## Barcode ID Type Table

Code type	HEX	CODE
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	]lm	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

## Examples For Setting

Example of barcode reading length setting

When setting the minimum reading length of a barcode, you need to ensure that the minimum length you set is not longer than the current maximum length setting, otherwise an error will be prompted. Similarly, when setting the maximum reading length of a barcode, you need to ensure that the maximum length you set is not less than the current minimum length setting.

### Example 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:

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 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"