

2D Desktop Barcode Scanner

User Manual

Version V2.7.01

Version Record

Version	Description of version	Release date
V2.7.01	Initial version	2021-5-20

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Connecting scanner

Connect the scanner to the special connector on the attached cable, and insert the other end into the corresponding port on the PC.

If the barcode configuration switch is turned off, refer to page 2 to turn on the barcode configuration switch.

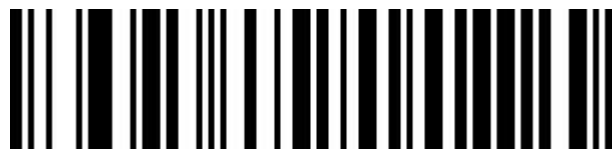
Enable/disable the configuration code

When the configuration code function is enabled, you can scan all configuration barcodes for scanning gun configuration.

When the configuration code function is disabled, other configuration barcodes cannot be scanned for scanner configuration, need to open again to scan the configuration code for scanner configuration.



Enable configuration code scanning (default)



Disabled configuration code scanning function

Version number



Version number

Default configuration

Scan the barcode below to restore to factory default Settings.



Restore factory default Settings

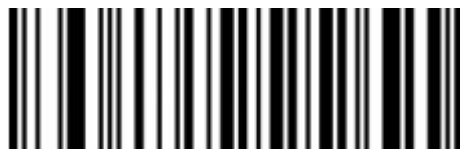
User Configuration

Scan the barcode below to save the current product parameters as user Settings.



Restore user configurations

Scan the barcode below to restore the scanner to the saved user configuration.



Restore user configurations

Interface Mode

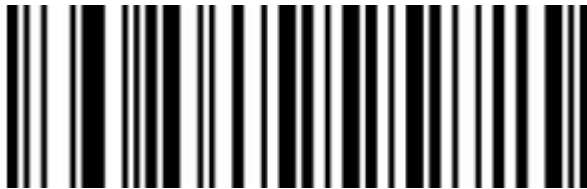
The scanning device supports USB keyboard, USB-to-serial port and serial port interface modes.

Scan the barcode below to configure USB keyboard.



USB keyboard (default)

Scan the barcode below to configure the scanner to serial mode.



Serial port

Scanning the barcodes below can set the scanning platform to USB to serial port mode. (Driver installation required)



Turn the USB serial port

USB keyboard configuration

Control character escape



Enable control character escape function 1



Enable control character escape function 2



Disable control character escape function(default)

Barcode content includes carriage return line feed character processing (USB keyboard)



OA(LF) only



OD (CR) only (default)



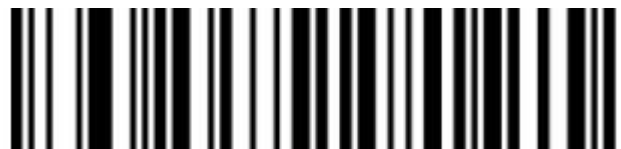
Both LF and CR

USB keyboard sending speed

Used to set the speed of sending data in USB keyboard mode. If the PC you use has low performance, you are advised to select a low speed to ensure transmission accuracy.



Low sending speed (default)



Medium sending speed



High sending speed



Customize the sending speed (2ms~50ms)

USB keyboard case output control



Normal output (default)



Case reversal



All capital



All lowercase

Keyboard layout selection



English (United States)(default)



French (France)



Italian (Italy)



Italian 142 (Italy)



German (Germany)



Spanish (Spain)



Spanish (Latin America)



Finnish



Japanese



Russian (MS)



Russian (typewriter)



Arabic (101)



Irish



Polish (214)



Polish (Programmers)



Dutch (Netherlands)



Czech (QWERTZ)



Portuguese (Portugal)



Portuguese (Brazil)



Swedish (Sweden)



Turkish Q



Turkish F



Greek (MS)



French (Belgium)



English (UK)



Hungarian (Hungary)



Hungarian 101-KEY (Hungary)

Virtual Keyboard

Mode 1: Do not support output the characters between 0x20 to 0xFF by using the virtual keyboard, under the current keyboard layout.

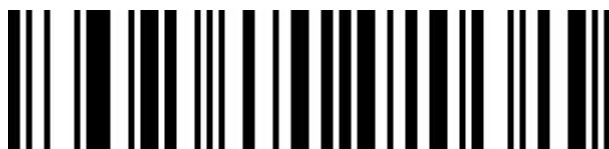
The characters between 0x00~0x1F are output according to the definition of control characters (Refer to Appendix)

Model 2: Support output the characters between 0x20 to 0xFF by using the virtual keyboard. The characters between 0x00~0x1F are output according to the definition of control characters (Refer to Appendix)

Model 3: Support output the characters between 0x00~0xFF by using the virtual keyboard



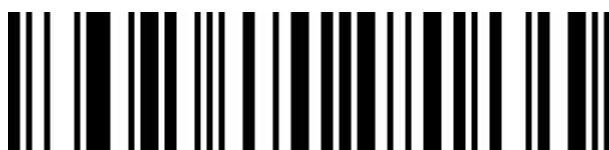
Turn Off (Default)



Turn On (Mode 1)

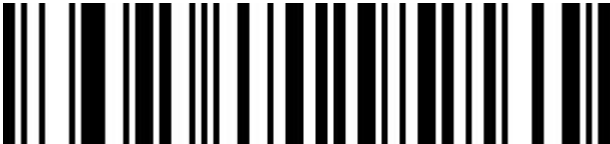


Turn On (Mode 2)



Turn On (Mode 3)

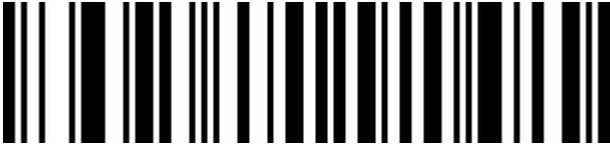
Host operating system selection in virtual keyboard mode



WINDOWS(Default)



MAC OS



LINUX

Barcode encoding configuration

Generally, the system automatically identifies the barcode correctly. If special character codes (such as Chinese characters) are encountered, manually configure the bar code to output the bar code correctly.



Automatic detection (default)



KOI8-R encoding



Japanese shift-JIS encoding

Output encoding format

To correctly output the output according to the specified encoding format, you need to specify the output encoding format.

For example, the output of simplified Chinese is set to GBK encoding in Notepad/Excel, and the output of Word is set to UNICODE encoding.

When the output encoding format is set to English /Latin-1, the output mode under the USB keyboard is affected by the virtual keyboard function switch. When the output encoding format is set to GBK/UNICODE, the output mode under the USB keyboard is forced to be virtual keyboard output.



English /Latin-1 encoding (default)



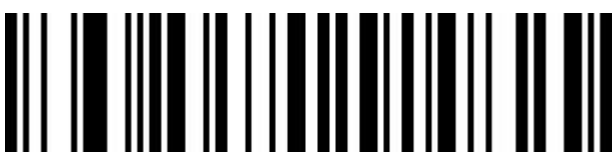
GBK coding (Notepad/Excel)



UNICODE Encoding (Word)



Japanese shift-JIS encoding



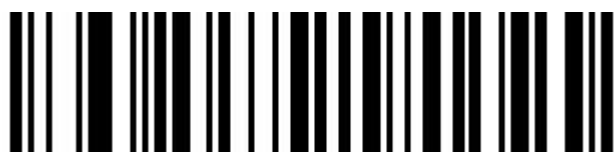
UTF-8 encoding

Invoice function

Enable/disable invoice function



Disable invoice function(default)



Enable invoice function

To ensure the correct output of invoice content, when opening the invoice code function, please set the output mode of Chinese characters to GBK code (Notepad/Excel), and at the same time disable Code ID, user-defined prefix/suffix, start character and other functions to change the original content of barcode.

Invoice type selection



VAT invoice (Special) (default)



VAT invoice (Normal)

Serial port configuration

Serial port baud rate configuration



4800



9600 (Default)



19200



38400



57600



115200

Serial data bit, stop bit, parity bit configuration



7 Bit, 1 Stop Bit, No Parity



7 Bit, 1 Stop Bit, Even Parity



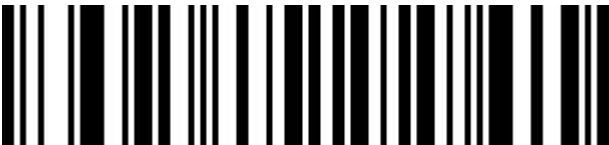
7 Bit, 1 Stop Bit, Odd Parity



7 Bit, 2 Stop Bit, No Parity



7 Bit, 2 Stop Bit, Even Parity



7 Bit, 2 Stop Bit, Odd Parity



8 Bit,1 Stop Bit, No Parity(Default)



8 Bit,1 Stop Bit, Even Parity



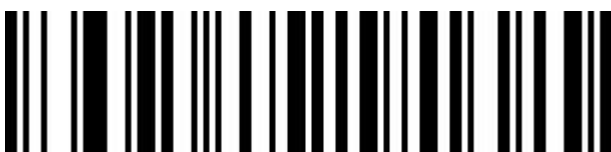
8 Bit,1 Stop Bit, Odd Parity



8 Bit,2 stop Bit, No Parity

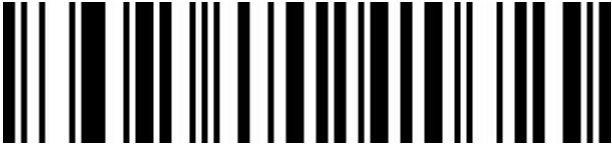


8 Bit,2 Stop Bit, Even Parity



8 Bit,2 Stop Bit, Odd Parity

GS control character replacement

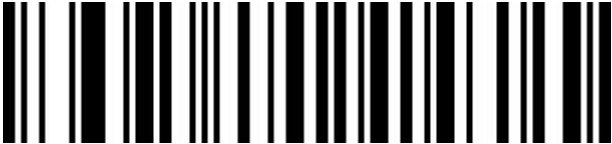


Do Not Replace (Default)

When output character is “Ç”, please first to scan” Virtual keyboard (Mode one or Mode two or Mode three)”.



Replace Ç



Replace |



Replace ^]



Replace]



Replace <GS>

Control character output



No-output



Output

Scan mode

This product has self-induction scan mode. Scan the following barcodes to configure switches.

Self-sensing mode off

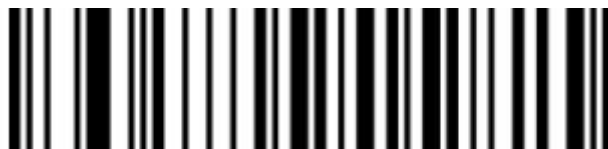
Decoding by pulling the trigger of the scanner when auto sense mode is off. It's default mode.



Off (Default)

Self-sensing mode on

The scanner can sense barcode for decoding automatically.



On

Scan mode



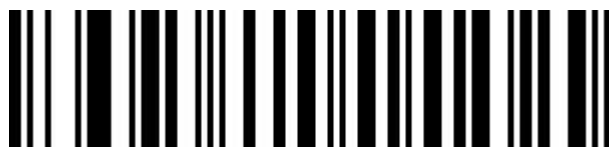
Normal



1D fast scan mode

Repeated code 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

Light configuration

LED indicator



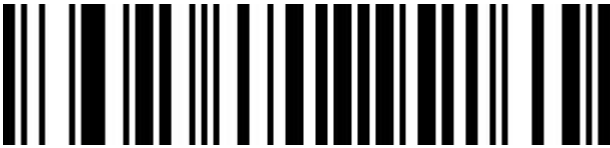
Off



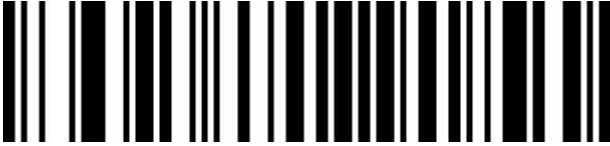
On (Default)

Configuration of buzzer

Volume



Low



High(Default)

Scanner activation tone switch



Off



On (Default)

Successful decoding tone switch



Off



On (Default)

Successful decoding prompt audio frequency (pitch)



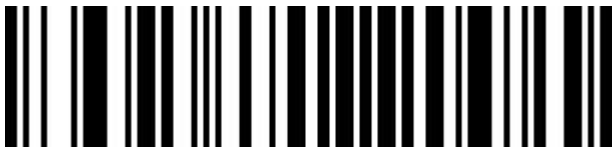
1 (Default)



2



3



Customized

Duration of successfully decoded prompt tone



Long (Default)



Short

Error warning tone frequency (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

Prefix and Suffix configuration

Start character



None (Default)



STX

Terminal character



None



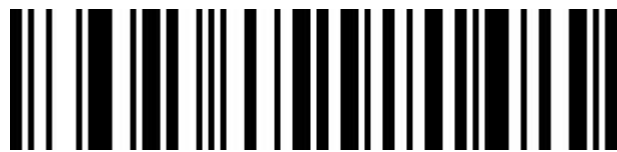
Enter



LF



CR/LF (Default)



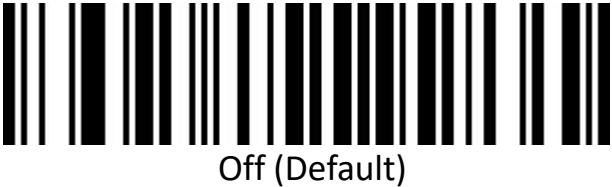
TAB



ETX

Custom prefix

Output options



Edit



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

Custom suffix

Output options



Edit



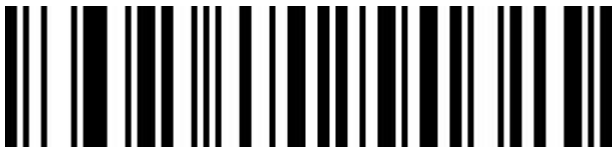
(Please set up ID Table ,Data, and edit barcode refer to the appendix after scanning.)

Code ID

Output options



Off (Default)

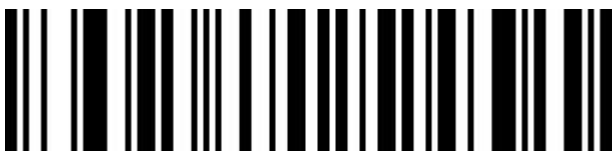


Before Switch on



After Switch On

Edit



Set Custom Prefix

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



Clear All Custom Prefix

AIM ID



Off (Default)



Before Switch On



After Switch On

Barcode prefix and suffix order selection

Prefix



Start Character+CODE ID+AIM ID+Custom Prefix (Default)



Start Character+ Custom Prefix + CODE ID+AIM ID

Suffix



Custom Suffix+CODE ID+AIM ID+Terminal Character (Default)



CODE ID+AIM ID+Custom Suffix+Terminal Character

Data editing

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

Inverted barcode option

(Only 1D/DataMatrix/Aztec)



Normal Color



Inverse Color



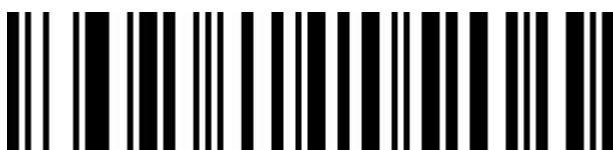
Both (Normal/Inverse)

Non-standard barcode options

When non-standard bar code reading is opened, it can be better compatible with some non-standard bar codes printed, but the corresponding probability of reading errors will increase.



Non-standard barcode read off (default)



Non-standard barcode read on

Performance demo barcode

(Temporary configuration, invalid after restart)



Enable the performance demonstration mode

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



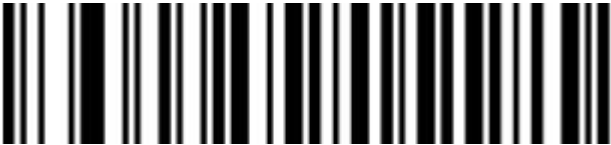
Disable All

Codabar

Enable/disable barcodes



Enable



Disable

Codabar Start and terminal character



Not Send Codabar Start/Terminal Character (Default)



Send Codabar Start/Terminal Character

Codabar Length limit setting



Minimum Length (0~50bit)



Maximum Length (0~50bit)

Code 39

Enable/disable barcodes



Enable



Disable

Code 39 Check Digit



Disable (Default)



Enable But Not Transfer



Enable & Transfer

Code 39 Full ASCII



Enable



Disable (Default)

Code 39 Start and terminal character



Enable



Disable (Default)

Code 39 Length limit setting



Minimum Length (0~50bit)



Maximum (0~50bit)

Code 32(Need code39 enable)Enable/disable barcodes

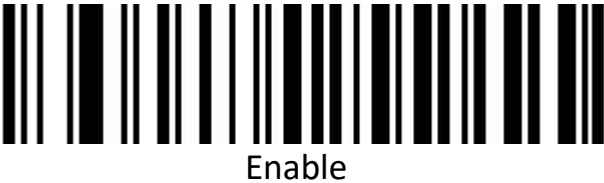


Enable



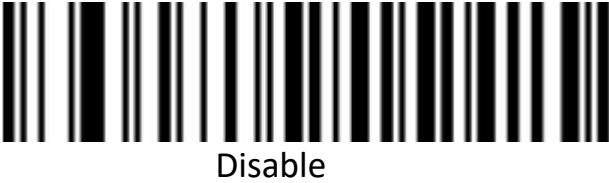
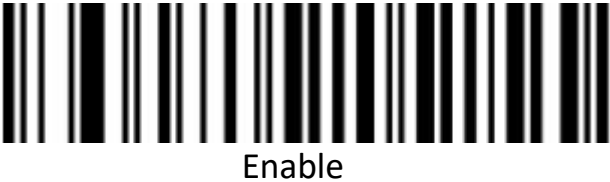
Disable

Code 32 Prefix



Interleaved 2 of 5 (ITF25)

Enable/disable barcodes



Interleaved 2 of 5 (ITF25) Check Digit



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



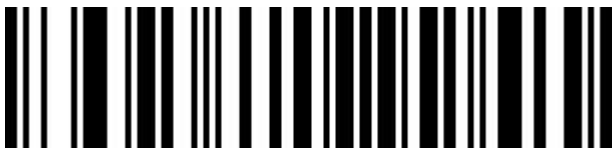
18 Bit



20 Bit



22 Bit



24 Bit

Interleaved 2 of 5 Length limit setting



Minimum (0~50bit)



Maximum (0~50bit)

Industrial 2 of 5

Enable/disable barcodes



Enable



Disable

Industrial 2 of 5 Length limit setting



Minimum (0~50bit)



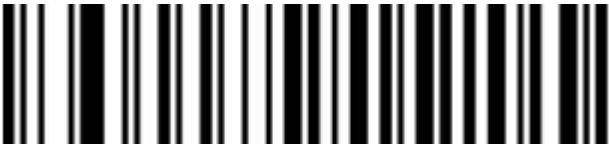
Maximum (0~50bit)

Matrix 2 of 5 (4-24digit)

Enable/disable barcodes



Enable



Disable

Matrix 2 of 5 Length limit setting



Minimum (0~50bit)



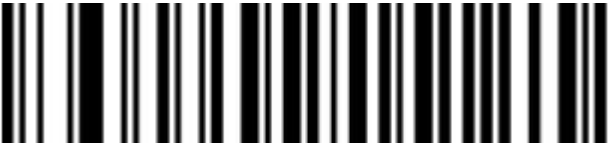
Maximum (0~50bit)

Code 93

Enable/disable barcodes



Enable



Disable

Code 93 Length limit setting



Minimum (0~50bit)



Maximum (0~50bit)

Code 11

Enable/disable barcodes



Enable



Disable (Default)

Code 11 Check digit output



Enable

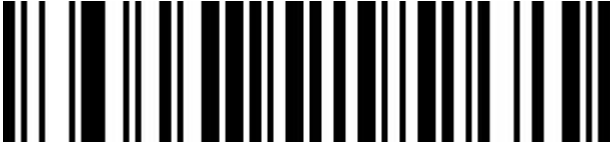


Disable (Default)

Code 11 Check selection



Disable (Default)



1 Bit



2 Bit

Code 11 Length limit setting



Minimum (0~50bit)



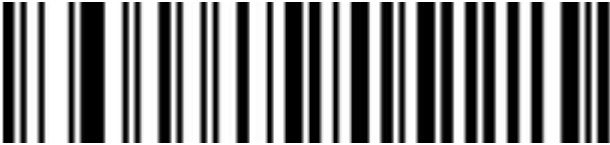
Maximum (0~50bit)

Code128

Code128



Enable



Disable

GS1-128



Enable



Disable

ISBT



Enable



Disable

Code 128 length limit setting



Minimum (0~50bit)



Maximum (0~50bit)

UPC-A

Enable/disable barcodes

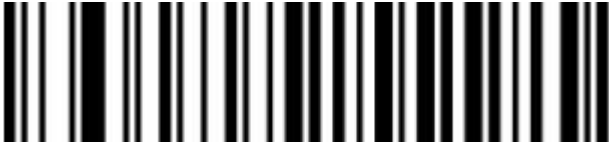


Enable

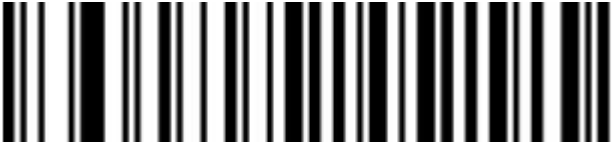


Disable

UPC-A Check digit



Send UPC-A Check Bit (Default)



Not send UPC-A Check Bit

UPC-A Leading character



Enable UPC-A convert to EAN-13



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



UPC-A not send leading characters

UPC-E

Enable/disable barcodes



Enable



Disable

UPC-E Check digit



Send UPC-E Check Bit (Default)

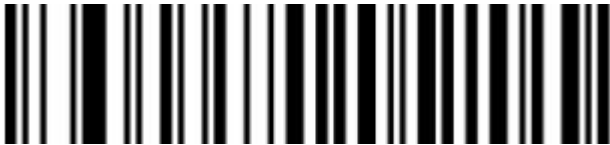


Not send UPC-E Check bit

UPC-E Expand UPC-A



Enable



Disable (Default)

UPC-E Leading character



UPC-E Sending country code + System character



UPC-E sends system characters (default)



Don't send leading characters

EAN/JAN-8

Enable/disable barcodes



Enable



Disable

EAN-8 turn to EAN-13



Disable EAN-8 convert to EAN-13



Enable EAN-8 convert to EAN-13

EAN-8 Check digit



Send EAN-8 check digit (default)



Don't send EAN-8 check digit

EAN/JAN-13

Enable/disable barcodes



Enable



Disable

EAN-13 Check digit

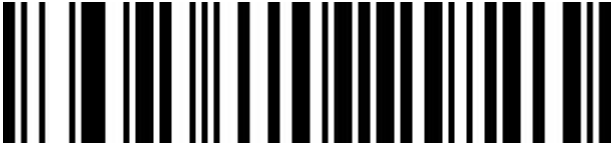


Send EAN-13 check digit (default)



Don't send EAN-13 check digit

UPC/EAN/JAN Additional code



Ignore UPC/EAN/JAN (Default)



Decode UPC/EAN/JAN



Custom UPC/EAN/JANA add on code

EAN13 turn to ISBN



Enable



Disable (Default)

EAN13 turn to ISSN



Enable



Disable (Default)

GS1 DataBar (RSS14)



Enable

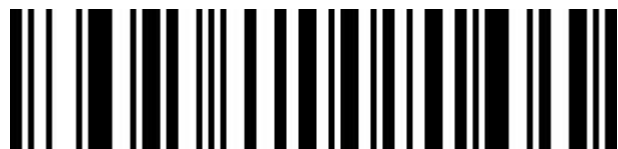


Disable

GS1 DataBar Limited



Enable

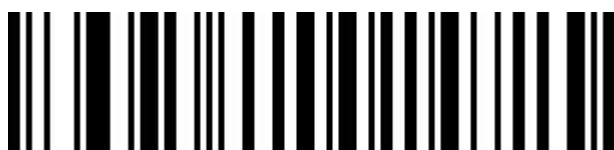


Disable

GS1 DataBar Expanded



Enable



Disable

MSI

Enable/disable MSI barcodes



Enable



Disable (Default)

MSI Check digit output



Enable



Disable (Default)

MSI Check selection



MSI code 1-bit parity bit (default)



MSI code 2-bit parity bit

MSI code 2 bit check option



MOD10/MOD10 (default)



MOD10/MOD11

MSI length limit setting



Minimum (0~50bit)



Maximum (0~50bit)

Febraban

Note: Please turn off AIM ID before enabling Frbraban.

Enable and disable Febraban barcode (ITF25)

Enable/disable Febraban barcodes (ITF25)



Febraban code (ITF25) Enable



Febraban code (ITF25) Disable (default)

Enable/disable Febraban barcodes (CODE128)



Febraban code (CODE128) Enable



Febraban code (CODE128) Disable (default)

Febraban Check digit



Enable



Disable (Default)

PDF417



Enable

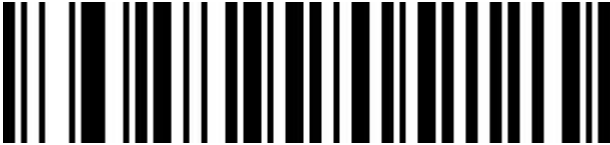


Disable

Micro PDF417



Enable



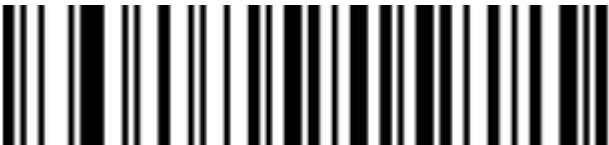
Disable

QR Code

Enable/disable barcodes

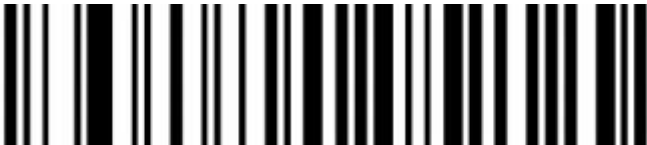


Enable



Disable

QR Code URL Link



QR Code URL Link Disable



QR Code URL Link Enable

Micro QR



Disable



Enable

Data Matrix



Disable



Enable

Aztec Code



Disable



Enable

Appendix

Data and edit barcodes



0



1



2



3



4



5



6



7



8



9



A



B



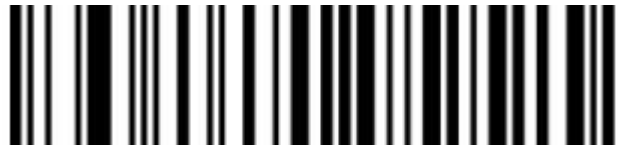
C



D



E



F



Cancel current setting



Cancel a string of data from previous read



Cancel the data from previous read



Save

Barcode 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

The 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

Decimal	Hexadecimal	Character	Decimal	Hexadecimal	Character	Decimal	Hexadecimal	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	t
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 set (USB keyboard mode)

Decimal	Hexadecimal	Correspondingkeyvalue (disable CODE ID)	Correspondingkeyvalue (enable CODE ID)
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 (The configuration of CRLF processing decide how it express)	Ctrl+J
11	0B	Caps Lock	Ctrl+K
12	0C	Print Screen	Ctrl+L
13	0D	Enter (The configuration of CRLF processing decide how it express)	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+_

Control character set (serial port and USB virtual serial port)

Decimal	Hexadecimal	Character
0	00	NUL
1	01	SOH
2	02	STX
3	03	ETX
4	04	EOT
5	05	ENQ
6	06	ACK
7	07	BEL
8	08	BS
9	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

Some functional configuration description and examples

Custom prefix and suffix configuration example

You can edit 10 characters as prefix or suffix. (In order to make sure the prefix and suffix can output normally, please enable user-defined prefix or suffix first)

Example 1.1:

Set "XYZ" as prefix on all codes

Before set up, please search HEX value for all codes is "99" (Appendix: barcode type ID Table); find "X" "Y" "Z" HEX value is "58" "59" "5A" (Appendix: Visible Character ASCII Table)

Step: Set "User-defined Prefix"; Set "9" "9" "5" "8" "5" "9" "5" "A" (Appendix: data and edit barcode); Set "Save".

If you want to revise the scanned barcode before save, please set up "Cancel the data from previous read" or "Cancel a string of data from previous read" to reset. If you want to give up setting scan, then scan "Cancel current setting".

Example 1.2:

Set "R" as prefix on QR

Before set up, please search HEX value for QR code is "51" (Appendix: barcode type ID Table); find "R" HEX value is "52" (Appendix: Visible Character ASCII Table)

Step: Set "Custom prefix"; Set "5" "1" "5" "2" (Appendix: data and edit barcode); Set "Save".

Example 1.3:

Cancel Custom prefix in QR code

Step: Set "Custom prefix"; Set "5" "1"; Set "Save"

Note: If set up prefix on all QR codes, it will default all QR codes prefix after set up.

In contrast, if cancel all prefix / suffix on barcodes, please set "Clear All Custom Prefix" and "Clear All Custom Suffix".

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.

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 Interleave 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”

Example of the barcode length limit configuration

If PC in a lower function, it will appear error status. Need to set up a slow scanning speed with customized under USB keyboard mode. Such as: 50ms

Step: Set”Custom Sending Speed”; Set”5””0””;Set”Save”

Warning Tone

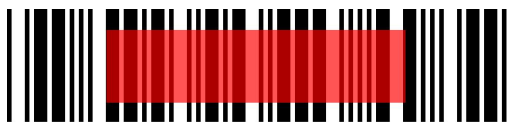
It will appear error warning for 4 times in a continue while transfer failure barcode. Please check if it’s normal work when appear this situation.

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.