
User Manual

Revision

Version	Description	Date
Barcode Scanner V2.13 Built Time: Jul 10 2018 10:41: 43	Initial Release	2018-7-13
Barcode Scanner V2.13 Built Time: Jun 28 2018 13:45:13	1、 Added Belgium-France Keyboard 2、 Added Data Edit Function	2018-10-29
Barcode Scanner V2.13 Built Time: May 8 2019 09:50:04	1、 Added GS Control Character Replace Function 2、 Added QR Code URL Link Function 3、 Revised the default interval time for repeat scanning as 500ms	2019-05-13
Barcode Scanner V2.13 Built Time: Oct 11 2019 15:19: 24	Modified Beeper Tone to 2.7K、 3.1K、 2.48HZ	2019-10-16
Barcode Scanner V2.13 Built Time: Dec 24 2019 14:13 :54	Modified Beeper Tone	2020-1-6
Barcode Scanner V2.13 Built Time: Mar 19 2020 10:51:27	1、 Replaced to V2 board 2、 Added firmware upgrade function; 3、 Added MSI symbol	2020-8-7

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1.Introduction

Powered by advanced decode algorithm and mega pixel Cmos sensor, the MIS6600 is delivering the superior scanning performance for any 1D or 2D codes, with a ultra large scan window and high motion tolerance.

1.1 Features

- * Superior Scanning Speed
- * Large Scan Window
- * High Motion Tolerance
- * USB or RS232 interface

1.2 Application Scenarios

The MIS6600 is mainly applied for the retail industry, such as supermarkets, convenience stores, tobacco and alcohol counters, commercial centers, etc.

1.3 Symbologies

The MIS6600 can easily read print barcodes and on-screen barcodes, including:

1D	EAN-8、EAN-13、EAN-13 2 add-on、EAN-13 5 add-on、ISSN、ISBN、UPC-A、UPC-E、Code11、Code 32、Code 39、Code 93、Code 128、Codabar、Industrial 2 of 5、Interleaved 2 of 5、Matrix 2 of 5、GS1-128、GS1 DataBar (RSS14) 、GS1 DataBar Limited、GS1 DataBar Expanded
2D	PDF417、MicroPDF417、MicroQR、Data Matrix、QR、Aztec

1.4 Maintenance

- ◆ The scan window should be kept clean.
- ◆ Do not scratch the scan window.

-
- ◆ Use soft brush to remove the stain from the scan window.
 - ◆ Use the soft cloth to clean the window, such as eyeglass cleaning cloth.
 - ◆ Do not spray any liquid on the scan window.
 - ◆ Do not use any detergent to clean other parts of the device except for water and alcohol

1.5 Barcode Scanning

1. Make sure that the scanner, the data cable, the host and power supply are properly connected and powered on normally. 2. Place the barcode in the field of view as shown in Figure 4-1 and aim it at the scan window. The illumination LED will be activated, the red illumination area will appear and the decoding process will begin. 3. When the good read beep sounds and the green LED is on, it indicates the decoding is successful. The scanner will transmit the decoded data to the host. 4. The optimal scanning distance is about 7cm away from the scan window



2.Programming Barcode

2.1 Programming Barcode



The figure above is an example that shows you the programming barcode and command for the Enter Setup function

The setting parameter is having two parts:

1.Programming Barcode

2.Description

2.2 Basic Programming

2.2.1 Enable/Disable Programming Barcode Scanning



Enable Programming Code Scanning



Disable Programming Code Scanning

2.2.2 Restore to Factory Default



Restore to Factory Default

2.2.3 Get Firmware Version

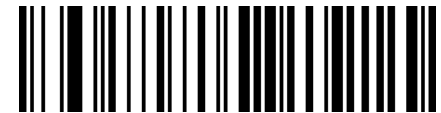


Firmware Version

2.2.4 User Preferred Configuration



User Preference Configuration



Restore to User Preference

2.2.5 Interface



USB Keyboard (default)



USB MAC



RS232



USB CDC

2.2.6 RS232

2.2.6.1 Baud Rate



Baud Rate 4800



Baud Rate 9600 (default)



Baud Rate 38400



Baud Rate 19200



Baud Rate 57600

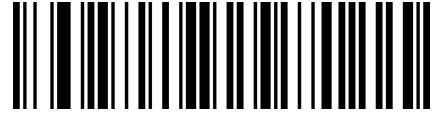


Baud Rate 115200

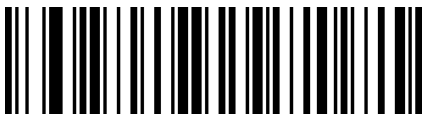
2.2.6.2 Data Bits/Stop Bits/Parity



7 Data Bits, 1 Stop Bit, No Parity



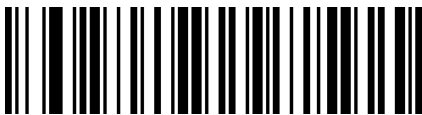
7 Data Bits, 1 Stop Bit, Even Parity



7 Data Bit, 1 Stop Bit, Odd Parity



7 Data Bit, 2 Stop Bit, No Parity



7 Data Bit, 2 Stop Bit, Even Bit



7 Data Bit, 2 Stop Bit, Odd Parity



8 Data Bit, 1 Stop Bit, No Parity (default)



8 Data Bit, 1 Stop Bit, Even Parity



8 Data Bit, 1 Stop Bit, Odd Parity



8 Data Bit, 2 Stop Bit, No Parity



8 Data Bit, 2 Stop Bit, Even Parity



8 Data Bit, 2 Stop Bit, Odd Parity

2.2.7 Start Character



No Start Character



Set Start Character as STX

2.2.8 Terminating Character Suffix



No Terminating Suffix



Set Terminating Suffix to CR



Set Terminating Suffix to LF



Set Terminating Suffix to CRLF



Set Terminating Suffix to TAB



Set Terminating Suffix to ETX

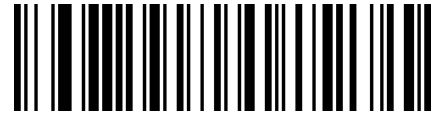
2.2.9 Custom Prefix



Enable Custom Prefix



Clean all Custom Prefix

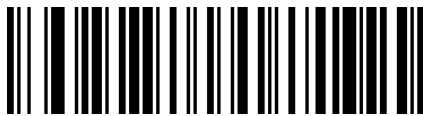


Disable Custom Prefix (default)



Set up Custom Prefix

2.2.10 Custom Suffix



Enable Custom Suffix



Disable Custom Suffix (default)



Delete all Custom Suffix



Set up Custom Suffix

2.2.11 Scan Mode



Normal Mode

2.2.12 Barcode contains CR and LF (USB Keyboard)



Output Enter Key when barcode only contains 0A



Output Enter Key only when barcode contains 0D (default)



Output Enter Key when barcode contains 0A or 0D both

2.2.16 ASCII Control Character

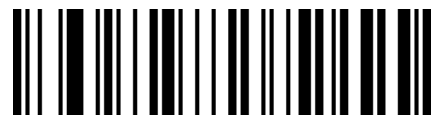


Enable ASCII Control Character



Disable ASCII Control Character

2.2.17 GS Control Character Replace



No Replace (default)



Replace with " | "



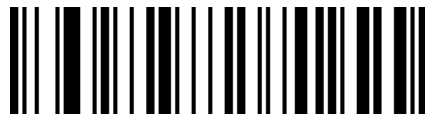
Replace with " ^]"



Replace with "]"



Replace with " <GS> "



Replace with " Ç "

2.2.18 Code ID



Disable CODE ID (default)



Enable CODE ID Prefix



Enable CODE ID Suffix



Set User-defined CODE ID



Restore all user-defined CODE ID

2.2.19 Inverse Barcode



Only Decode Regular Codes (default)



Only Decode Inverse Codes



Decode Both

2.2.20 Virtual Keyboard

Mode 1: The characters between 0x20 ~ 0xFF are output using the virtual keyboard which is not supported under the current keyboard layout, and the characters

between 0x00 ~ 0x1F are output according to the definition of control characters

Mode 2: All characters between 0x20 ~ 0xFF are output by virtual keyboard, and characters between 0x00 and 0x1F are output according to the definition of control characters

Mode 3: All characters used between 0x00 ~ 0xFF are output by virtual keyboard



Disable Virtual Keyboard (default)



Virtual Keyboard (Mode1)



Virtual Keyboard (Mode2)



Virtual Keyboard (Mode3)

2.2.21 Operating System - Virtual Keyboard



WINDOWS (default)



MAC OS



LINUX

2.3 Beeper and LED

2.3.1 Beeper Volume



Volume Low

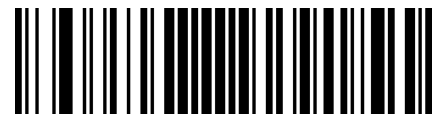


Volume High (default)

2.3.2 Beeper-Startup



Disable



Enable (default)

2.3.3 Beeper-Good Read



Disable



Enable (default)

2.3.4 Beeper Tone- Good Read



Low Tone



Medium Tone (default)



High Tone

2.3.5 Beeper Duration- Good Read

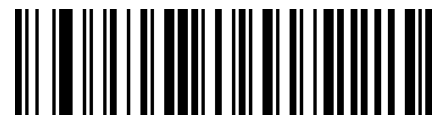


Duration Long (default)



Duration Short

2.3.6 Beeper Tone- Error



Low Tone (default)



Medium Tone



High Tone

2.3.7 LED



Good Read LED off



LED-Good Read On (default)

2.4 Timeout between decodes, same symbol

Use this option to prevent the scanner from continuously decoding the same barcode when it is left in the scanner's field of view. The barcode must be out of the field of view for the timeout period before the scanner reads the same consecutive symbol. The default interval is 0.5 seconds.



300ms



500ms (default)



750ms



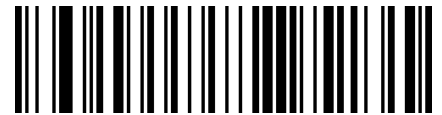
1s



2s

2.5 USB Keyboard

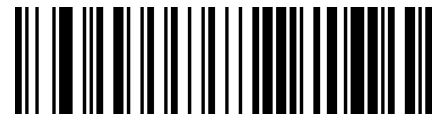
2.5.1 USB Keyboard Transmission Speed



Slow (default)



Medium



High



Custom Speed

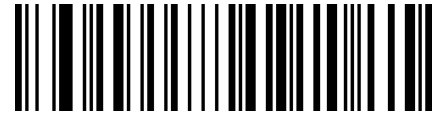
2.5.2 USB Keyboard - Convert Case



No Case Conversion (default)

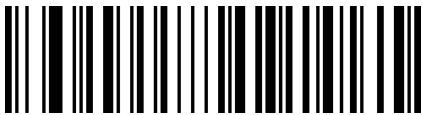


Convert Case



Convert All to Upper

Case



Convert All to Lower Case

2.6 Countries Keyboards



English (United States)



French (France)



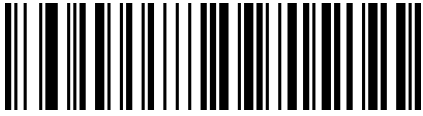
Italian (Italy)



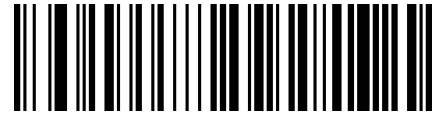
Italian 142 (Italy)



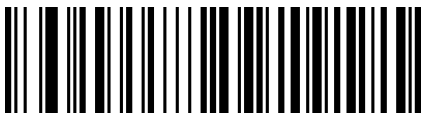
German (Germany)



Spanish (Spain)



Spanish (Latin America)



Japanese



Russian (MS)



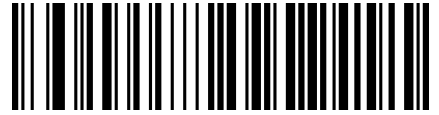
Russian (typewriter)



Arabic (101)



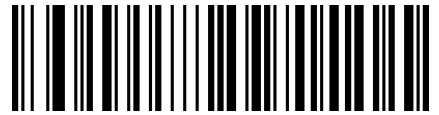
Polish (214)



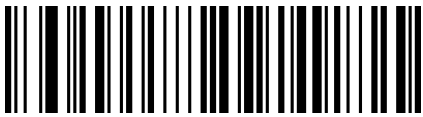
Irish



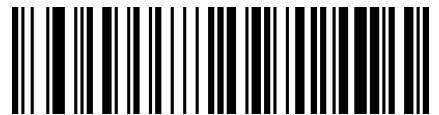
Polish (Programmers)



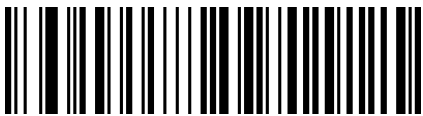
Dutch (Netherlands)



Czech (QWERTZ)



Portuguese (Portugal)



Portuguese (Brazil)



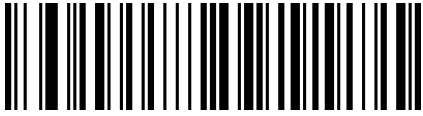
Swedish (Sweden)



Turkish Q



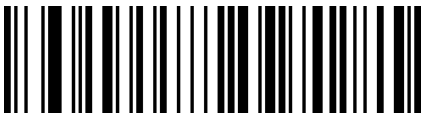
Turkish F



Greek (MS)



Finnish



French (Belgium)



English (UK)

2.7 Data Format

The data editing function can customize the Data field with the complete barcode content to the 3 fields of Start/Center/End by configuring the length of the Start/End field. Please configure the length of the Start/End field and transmission configuration according to actual needs.

Note: The non-barcode content such as custom prefixes and suffixes, start character, end character, CODE ID, AIM ID, etc. are not affected by the data editing function.

2.7.1 Transmission Configuration



Original Data



Only Transmit Start Field



Only Transmit Center Field



Only Transmit End Field

2.7.2 Set Length Range for Start/End Field



Set Length Range for Start Field



Set Length Range for End Field

Note: The field length configuration is in bytes, using decimal data for configuration.

Example: If we set the start field as 10 digits, we need to scan programming code" Set Length Range for Start Field" , and Scan Programming Code " 1" , "0" and "Save" in the appendix "Data and Edit Barcode" .

2.8 Symbologies

2.8.1 Enable/Disable All Symbologies



Enable All Symbologies



Disable All Symbologies

2.8.2 Enable/Disable All 1D Symbologies



Enable All 1D Symbologies



Disable All 1D Symbologies

2.8.3 Enable/Disable All 2D Symbologies



Enable All 2D Symbologies



Disable All 2D Symbologies

2.8.4 Codabar

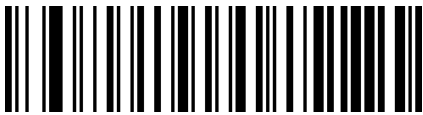


Enable Codabar



Disable Codabar

2.8.5 Set Start/End Character for Codabar

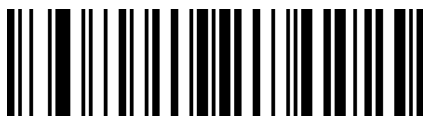


Do not Transmit Start/End Character (default)



Transmit Start/End Character

2.8.6 Set Length Range for Codabar



Set the Minimum Length (0~50 digits)



Set Maximum Length (0~50digits)

2.8.7 Code 11



Enable Code 11



Disable Code 11 (default)

2.8.8 Code 11 Check Digit Transmission



Enable and Transmit Check Digit



Do not Transmit Check Digit (default)

2.8.9 Code 11 Check Digit



Disable Code 11 Check Digit (default)



Code 11 1 check digit



Code 11 2 check digit

2.8.10 Set Length Range for Code 11



Set the Minimum Length (0~50 digits)

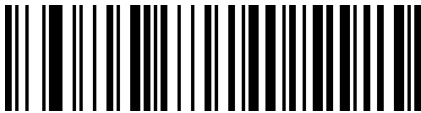


Set Maximum Length (0~50digits)

2.8.11 Code 39



Enable Code 39



Disable Code 39

2.8.12 Code 39 Check Digit



Disable Code 39 (default)



Enable but Do Not Transmit Code 39 Check Bit



Enable and Transmit Code 39 Check bit

2.8.13 Code 39 Full ASCII



Enable Full ASCII (default)



Disable Full ASCII

2.8.14 Set Length Range for Code 39

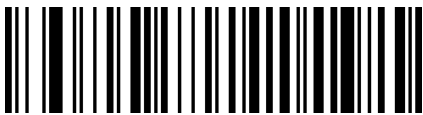


Set the Minimum Length (0~50 digits)



Set Maximum Length (0~50 digits)

2.8.15 Code 32 (Need to enable Code 39)



Enable Code 32



Disable Code 32

2.8.16 Interleaved 2 of 5 (ITF5)



Enable ITF25



Disable ITF25

2.8.17 Interleaved 2 of 5 (ITF5) Check Digit



Disable ITF25 Check Digit (default)



Enable but Do not Transmit ITF25 Check Digit



Enable and Transmit ITF25 Check Digit

2.8.18 Set Length Range for Interleaved 2 of 5 (ITF5)



ITF25 Any Length (4-24 Digits) (default)



ITF25 6 Digits



ITF25 8 Digits



ITF25 10 Digits



ITF25 12 Digits



ITF25 14 Digits



ITF25 16 Digits



ITF25 18 Digits



ITF25 20 Digits



ITF25 22 Digits



ITF25 24 Digits

2.8.19 Set Length Range for Interleaved 2 of 5



Set the Minimum Length (0~50 digits)



Set the Maximum Length (0~50 digits)

2.8.20 Industrial 2 of 5 (4-24 Digits)



Enable Industrial 2 of 5



Disable Industrial 2 of

5

2.8.21 Set Length Range for Industrial 2 of 5



Set the Minimum Length (0~50 digits)



Set the Maximum Length (0~50

digits)

2.8.22 Matrix 2 of 5 (4-24 digits)



Enable Matrix 2 of 5



Disable Matrix 2 of 5

2.8.23 Set Length Range for Matrix 2 of 5



Set the Minimum Length (0~50 digits)



Set the Maximum Length (0~50 digits)

2.8.24 Code 93



Enable Code 93



Disable Code 93

2.8.25 Set Length Range for Code 93



Set the Minimum Length (0~50 digits)



Set the Maximum Length (0~50 digits)

2.8.26 Code 128



Enable Code 128



Disable Code 128

2.8.27 GS1-128



Enable GS1-128



Disable GS1-128

2.8.28 Set Length Range for Code128



Set the Minimum Length (0~50 digits)



Set the Maximum Length (0~50

digits)

2.8.29 MSI plessey



Enable MSI plessey

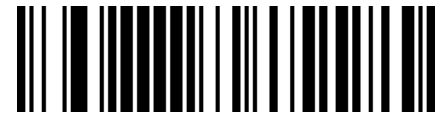


Disable MSI plessey

2.8.30 UPC-A



Enable UPC-A



Disable UPC-A

2.8.31 UPC-A Check Digits



Transmit UPC-A Check Digits (default)



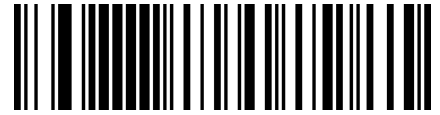
Do not Transmit UPC-A Check

Digits

2.8.32 Convert UPC-A to EAN-13



Enable Convert UPC-A to EAN-13



Disable Convert UPC-A to EAN-13 (default)

2.8.33 UPC-E



Enable UPC-E



Disable UPC-E

2.8.34 UPC-E Check Digits



Transmit UPC-E Check Digits (default)



Do Not Transmit UPC-E Check Digit

2.8.35 Convert UPC-E to UPC-A



Enable Convert UPC-E to UPC-A



Disable Convert UPC-E to UPC-A (default)

2.8.36 EAN/JAN-8



Enable EAN/JAN-8



Disable EAN/JAN-8 (default)

2.8.37 EAN/JAN-13



Enable EAN/JAN-13



Disable EAN/JAN-13

(default)

2.8.38 UPC/EAN/JAN Supplemental

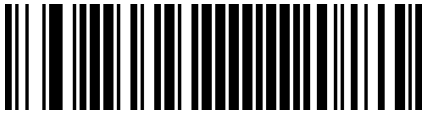


Ignore UPC/EAN/JAN with Supplemental (default)



Decode UPC/EAN/JAN

with Supplemental



Autodiscriminate UPC/EAN/JAN with Supplemental

2.8.39 Convert EAN13 to ISBN



Enable Convert EAN13 to ISBN



Disable Convert EAN13 to ISBN (default)

2.8.40 Convert EAN13 to ISSN



Enable Convert EAN13 to

ISSN



Disable Convert EAN13 to ISSN (default)

2.8.41 GS1 DataBar (RSS14)



Enable GS1 DataBar



Disable GS1 DataBar

2.8.42 GS1 DataBar Limited



Enable GS1 DataBar

Limited



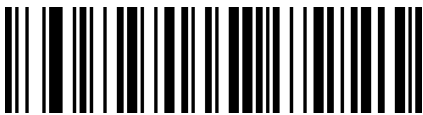
Disable GS1 DataBar Limited

2.8.43 GS1 DataBar Expanded



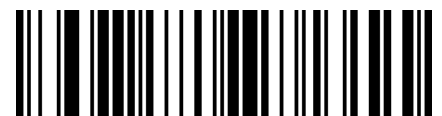
Enable GS1 DataBar

Expanded



Disable GS1 DataBar Expanded

2.8.44 PDF417



Enable PDF417



Disable PDF417

2.8.45 Micro PDF417

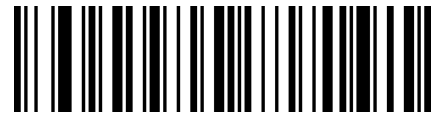


Enable Micro PDF417



Disable Micro PDF417

2.8.46 QR Code



Enable QR



Disable QR



Disable QR Code with URL Link (default)



Enable QR Code with URL Link

2.8.47 Micro QR



Enable Micro QR



Disable Micro QR

2.8.48 Data Matrix



Enable Data Matrix



Disable Data Matrix

2.8.49 Aztec Code



Enable Aztec



Disable Aztec

2.9 Prefix/Suffix Sequence

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+Terminating Suffix (default)



CODE ID+AIM ID+Custom Suffix+Terminating Suffix

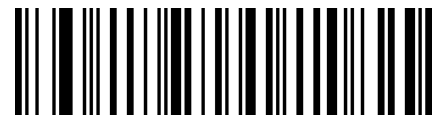
3.0 AIM ID



Disable AIM ID



CODE ID+AIM ID+Custom Suffix+Terminating Suffix



Enable AIM ID after

Barcode

Appendix 1 Data and Digit Barcode



0



1



2



3



4



5



6



7



8



9



A



B



C



D



E



F



Cancel All Digits



Cancel

Current

Configuration



Cancel Last Digit



Save

Appendix 2 Symbologies ID Set

Symbologies	HEX	CODE ID(default)
All Symbologies	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 DataBar Limited	52	R
GS1 DataBar Expanded	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	44	D
UPC-A	63	c
UPC-E	63	c
ISBN	42	B

ISSN	6E	n
Aztec Code	7A	z
DataMatrix	75	u
PDF417	72	r
Micro PDF417	53	s
QR Code	51	Q
Micro QR Code	51	Q

Appendix 3 ASCII Table

Dec	Hex	Cha	Dec	Hex	Cha	Dec	Hex	Cha
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	_			

Appendix 4 Function Key Mapping Table (USB-Keybaord)

Dec	Hex	Key (When Disable Control Character)	Key (When Enable Control Character)
0	00	Save	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	Backspace
9	09	Tab	Tab
10	0A	Enter	Ctrl+J
11	0B	Caps Lock	Ctrl+K
12	0C	Print Screen	Ctrl+L
13	0D	Enter	Enter
14	0E	Scroll Lock	Ctrl+N
15	0F	Pause/Break	Ctrl+O
16	10	F11	Ctrl+P
17	11	↑	Ctrl+Q
18	12	↓	Ctrl+R
19	13	←	Ctrl+S

20	14	→	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	ESC
28	1C	F7	Ctrl+\
29	1D	F8	Ctrl+]
30	1E	F9	Ctrl+^
31	1F	F10	Ctrl+_

Appendix 5 Control Character Set (RS232 and USB-CDC)

Dec	Hex	Cha
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

Partial Functional Configuration Instruction and Examples

Example: Set Custom Prefix/Suffix

The maximum length for every prefix or suffix is 10 digits, setting up by scanning parameter barcodes. (Please enable Custom prefix/Suffix by scanning parameter barcodes)

Example 1.1: Set up Custom prefix" XYZ" for all symbologies

According to the Barcode Type ID, "99" is the Hex value for all symbologies;

According to the Visible ASCII character, "58,58,5A" is the Hex value for XYZ;

Steps:

Scan Parameter Barcode Set Custom Prefix, Scanner will beep twice;

Scan parameter barcodes 9, 9, 5, 8, 5, 9, 5, A, Save by sequences in Appendix Data and Digital Barcodes

Example 1.2: Set up Custom Prefix" R" for QR code.

According to the appendix Barcode Type ID Table, 51 is the Hex value for Qr code;

According to the appendix Visible ASCII Character Table, 52 is the Hex value for R;

Steps:

Scan Parameter Barcode Set Custom Prefix;

Scan parameter barcodes 5, 1, 5, 2, Save by sequences in appendix Data and Digital Barcodes

Example 1.3: Restore custom prefix for QR code

1. Scan parameter barcode "Set Custom Prefix"
 2. Scan parameter barcode 5,1, Save in appendix Data and Digital Barcodes.
-

Set Length Range for barcode

Example 2.1: Set Length Range for Code128 as 4 - 12 digits

1. Scan Parameter Barcode Set Minimum Length for Code 128 ,
2. Scan parameter barcode 4 in the appendix Data and Digital Barcodes,
3. Scan parameter barcode Save in the appendix Data and Digital Barcodes,
4. Scan parameter barcode Set Maximum Length for Code128,
5. Scan parameter barcode 1,2 in the appendix Data and Digital Barcodes,
6. Scan parameter barcode Save in the appendix Data and Digital Barcodes.

Example 2.2: Set Length Range for Interleaved 2 of 5 as 14 digits

Method 1 . Scan parameter barcode Set Length Range for ITF25 as 14 digits

Step:

Scan parameter barcode Set Minimum Length for Interleaved 2 of 5

Scan parameter barcode 1, 4, save in the appendix Data and digital Barcodes

Scan parameter barcode Set Maximum Length for Interleaved 2 of 5

Scan parameter barcode 1, 4, save by sequence in the appendix Data and digital Barcodes

Example 2.3: Enable Code39 with any digit length

1. Scan parameter barcode Set minimum Length for Code39
 2. Scan parameter barcode 0, Save in the appendix Data and Digital Barcodes
 3. Scan parameter barcode Set Maximum Length for Code39
 4. Scan parameter barcode 0, Save in the appendix Data and Digital Barcodes
-