
User Manual

Nuscan 4300B

Revision

Version	Description	Date
	Initial Release	2021-6-29

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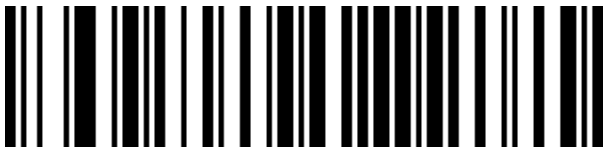
1.Enable/Disable Parameter Barcode Scanning



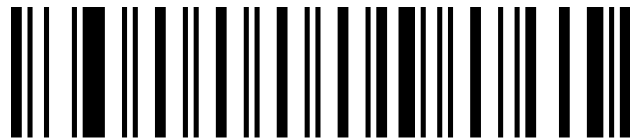
Enable Parameter Barcode Scanning (default)



Disable Parameter Barcode Scanning



Query Scan Engine firmware Version



FFFF6A
Query Wireless Module Version

1.2 Factory Default



Restore to Factory Default



%%SpecCode93

Restore to factory default (wireless control and data format)

1.3 User Preference



Save User Preference Configuration



Restore to User Preference

2. Wireless Communication

2.1 Bluetooth HID Mode



Quick Pair



2.2 Bluetooth SPP Mode



2.3 Bluetooth BLE Mode



2.4 Android Input Method



2.5 USB-Virtual COM Port



Enable Long press to enter Bluetooth HID Mode Pairing



Disable Long press to enter Bluetooth HID Mode Pairing



2.6 Bluetooth Name

Set custom Bluetooth device name



Query Bluetooth Name



2.7 IOS Keyboard

Apple Show/Hide Keyboard



Enable Double Click Screen of Apple device to Show/Hide keyboard



Disable Double Click Screen of Apple device to Show/Hide Keyboard



2.8 Communication Mode

*Normal:



%%SpecCode10

Storage Mode:



%%SpecCode11

Upload Stored Data:



%%SpecCode16

Show Stored Data Quantity:



%%SpecCode17

Clear Stored Data:



%%SpecCode18

3.Scanner Time Out

30S:



%%SpecCode30

1minutes:



2minutes:



*5minutes:



10minutes:



30minutes:



No Timeout:



Enter Sleep Mode:



Query Battery Level:



4. Data Transmission

*Fast Speed:



Medium Speed:



Low Speed:



%%SpecCodeB2

Extra-Low Speed:



%%SpecCodeB3

5. Keyboard Layouts

US-English:



%%SpecCode40

Germany:



%%SpecCode41

French:



%%SpecCode42

*Spanish:



%%SpecCode43

Italian:



%%SpecCode44

Japanese:



%%SpecCode45

International Keyboard:



%%SpecCode46

Belgium-French:



%%SpecCode47

Portuguese:



%%SpecCode48

UK-English



%%SpecCode49

6. Convert Case

Convert All to Lower Case:



%%SpecCodeA3

Convert All to Upper Case:



%%SpecCodeA4

Convert the Case:



%%SpecCodeA6

*Do not Convert the Case:



%%SpecCodeA5

7.GS Character Replace

To replace GS character, please scan “Replace GS character” barcode and scan corresponding barcodes in ASCII Table.

Replace GS Character



*Disable GS Character replace (GS function On by default)



8.Escape character

The prefix and suffix table is divided into two parts: the displayable character table part and the control character table part. Displayable character table: mainly ASCII characters with key values greater than 31. This part of the character set can be directly input through the HID keyboard, and does not need to be escaped. Control character table: mainly characters with key value less than 32 (see Appendix 2 for barcode), most of these characters cannot be output directly through the HID keyboard and need to be escaped to be output from the HID keyboard. This scanner has defined 5 escaping methods, and the different escaping methods can be switched by scanning the code. Customers can set the appropriate set of escaped characters according to their needs.



Escape character set 0



Escape character set 1



Escape character set 2



Escape character set 3

9.Scan Mode

9.1 Auto Scan Mode



Disable Auto Scan Mode (default)



Enable Auto Scan Mode

9.2 Timeout between decodes, same symbol

The timeout for scanning same barcode is to avoid repeat - scanning the same code by mistake.



500ms



750ms (default)



1s



2s

9.3 Decoding Timeout



1s



3s



5s



10s



30s

9.4 Illumination-Timeout



Disable Illumination LED

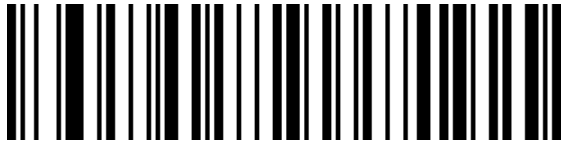


LED with Low brightness

9.5 Indicator LED



Disable LED - Good Read



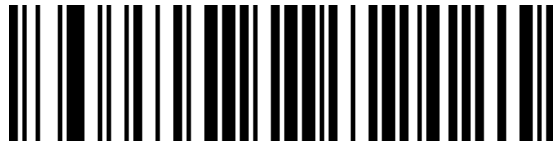
Enable LED-Good Read (default)

10. Beeper

10.1 Volume

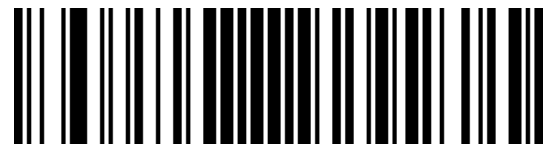


Volume Low



Volume High (default)

10.2 Beeper - Startup



Disable Beeper-Startup



Enable Beeper-Startup (default)

10.3 Beeper-Good Read



Disable Beeper-Good Read

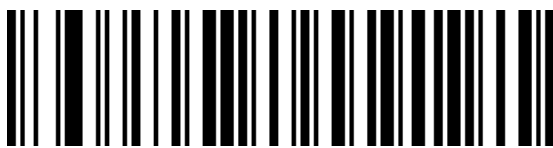


Enable Beeper-Good Read (default)

10.4 Beeper Tone- Good Read



Beeper Tone 1 (default)



Beeper Tone 2 (2.7K)



Beeper Tone 3

10.5 Beeper Duration- Good Read

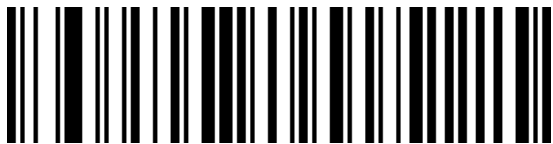


Duration Long (default)

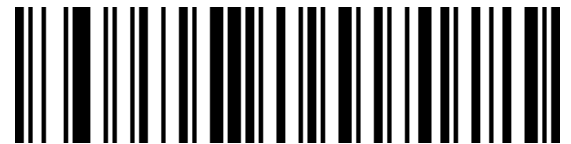


Duration Short

10.6 Beeper Tone- Error



Tone Low (default)



Tone Medium



Tone High

11. Prefix/Suffix

11.1 Set up Prefix/Suffix

Scan "Set Up Prefix"/"Set Up Suffix" barcode.

Scan corresponding character barcode from the **Character Table**.

Set Up Prefix:



Set Up Suffix:



11.2 Terminating Suffix

CR:



LF:



CR+LF:



Tab:



No Terminator:



11.3 Hide Front/End Character



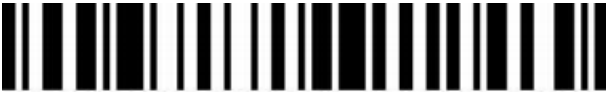
Hide Front Character



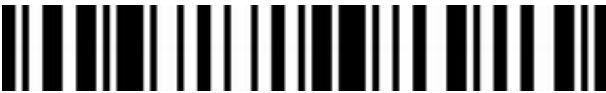
High End Character



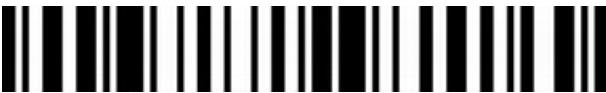
Hide 1 Digit



Hide 2 Digits



Hide 3 Digits



Hide 4 Digits

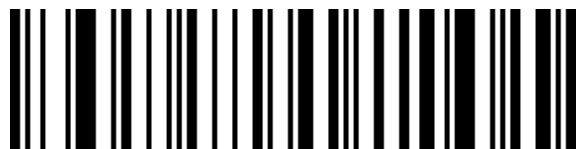
11.4 Code ID



Disable CODE ID (default)



Enable Prefix CODE ID



Enable Suffix CODE ID



Set CODE ID

(Please set up the custom prefix according to the appendix **Barcode Type Table** and **Data and Digit Barocdes**)



Restore All CODE ID

11.5 AIM ID



Disable AIM ID (default)



Enable Prefix AIM ID



12. 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.

12.1 Transmission Configuration



Transmit Original Data (default)



Only Transmit Start Field



Only Transmit Center Field



Only Transmit End Field

12.2 Set Length for Start/End Field



Set Length for Start Field



Set Length 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 parameter Barcode “

Set Length for Start Field” , and then scan parameter Barcode “ **1**” , “**0**” and

“**Save**” in the appendix “**Data and Digit Barcodes**” .

12.3 Inverse Barcodes

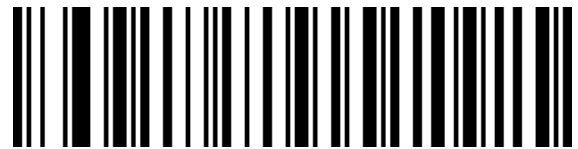


Only Decode Regular Codes

(default)



Only Decode Inverse Codes



Decode Both

13. Symbologies

13.1 Enable/Disable All Symbologies



Enable All Symbologies



Disable All Symbologies

13.2 Enable/Disable All 1D Symbologies

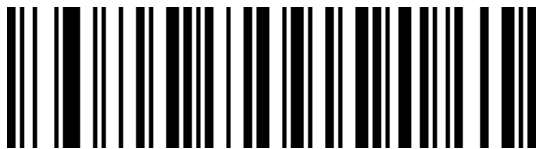


Enable All 1D Symbologies

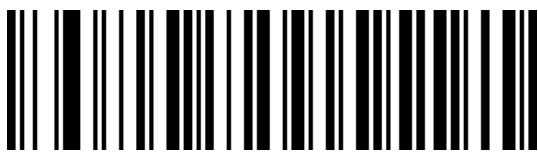


Disable All 1D Symbolgoies

13.3 Enable/Disable All Symbologies



Enable All 2D Symbologies



Disable All 2D Symbolgoies

13.4 Codabar

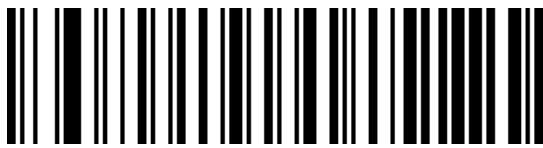


Enable Codabar

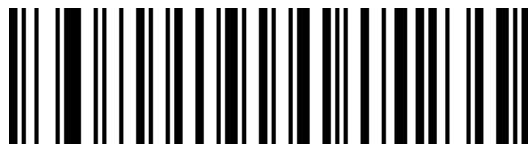


Disable Codabar

13.5 Codabar - Start/End Character



Do not Transmit Start/End Character (default)



Transmit Start/End Character

13.6 Set Length for Codabar

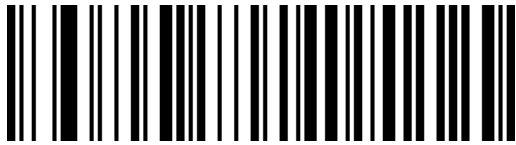


Set the Minimum Length (0~50 digits)

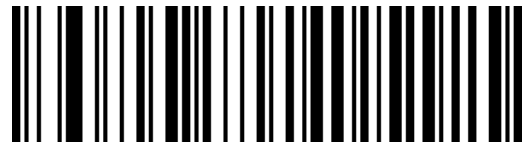


Set Maximum Length (0~50digits)

13.7 Code 39

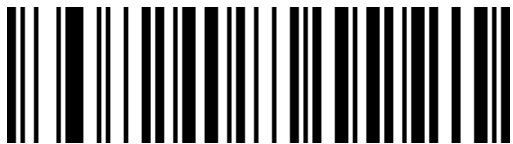


Enable Code 39

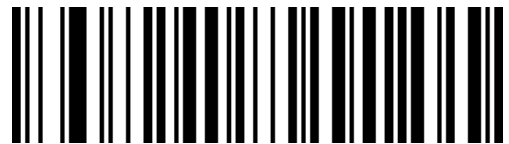


Disable Code 39

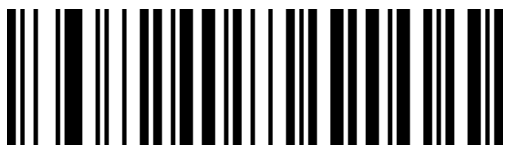
13.8 Code 39 Check Digits



Disable Code 39 Check Digits (default)



Enable but Do Not Transmit Code 39 Check Bit



Enable and Transmit Code 39 Check bit

13.9 Code 39 Full ASCII



Enable Full ASCII



Disable Full ASCII (default)

13.10 Set Length for Code 39



Set the Minimum Length (0~50 digit

s)

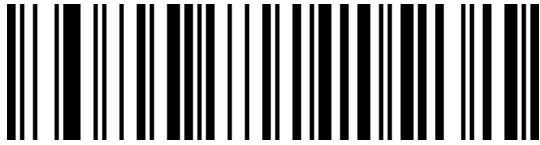


Set Maximum Length (0~50digits)

13.11 Code 32



Enable Code 32

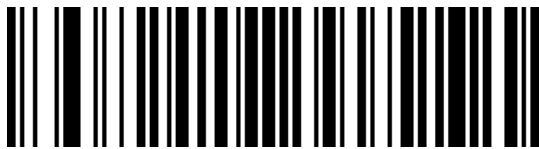


Disable Code 32

13.12 Code 32 Prefix



Enable Code 32 Prefix



Disable Code 32 Prefix (default)

13.13 Interleaved 2 of 5 (ITF25)



Enable ITF25



Disable ITF25

13.14 Interleaved 2 of 5 (ITF25) Check Digit



Disable ITF25 Check Digit (default

t)



Enable but Do not Transmit ITF25 Check Digit



Enable and Transmit ITF25 Check Digit

13.15 Set Length for Interleaved 2 of 5 (ITF5)



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



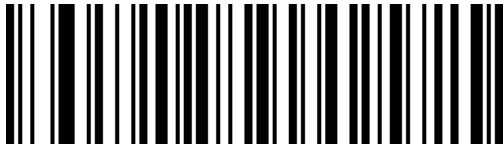
ITF25 6 Digits



ITF25 8 Digits



ITF25 10 Digits



ITF25 12 Digits



ITF25 14 Digits



ITF25 16 Digits



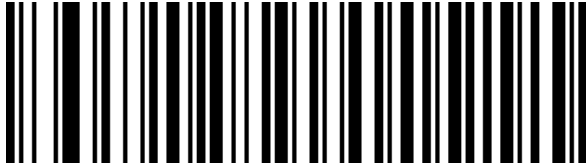
ITF25 18 Digits



ITF25 20 Digits



ITF25 22 Digits



ITF25 24 Digits

13.16 Set Length for Interleaved 2 of 5



Set the Minimum Length (0~50 digits)



Set the Maximum Length (0~50 digits)

13.17 Industrial 2 of 5/IATA



Enable Industrial 2 of 5 /IATA



Disable Industrial 2 of 5 /IATA

13.18 Set Length for Industrial 2 of 5 /IATA



Set the Minimum Length (0~50 digits)



Set the Maximum Length (0~50 digits)

13.19 Matrix 2 of 5 (4-24 Digits)



Enable Matrix 2 of 5



Disable Matrix 2 of 5

13.20 Set Length for Matrix 2 of 5



Set the Minimum Length (0~50 digits)



Set the Maximum Length (0~50 digits)

13.21 Code 93



Enable Code 93



Disable Code 93

13.22 Set Length for Code 93



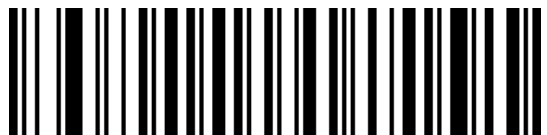
Set the Minimum Length (0~50 digit

s)



Set the Maximum Length (0~50 digits)

13.23 Code 11

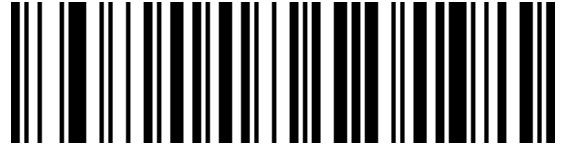


Enable Code 11

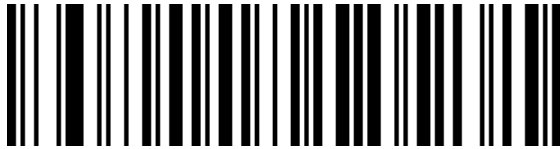


Disable Code 11 (default)

13.24 Code 11 Check Digit Transmission

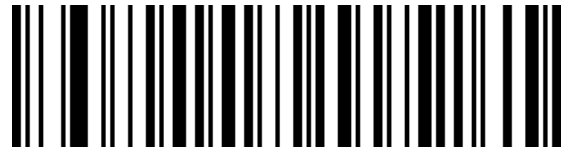


Transmit Code 11 Check Digit

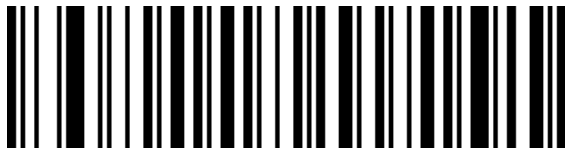


Do Not Transmit Code 11 check digit (default)

13.25 Code 11 Check Digit



Disable Code 11 Check Digit (default)



Code 11 1 Check Digit



Code 11 2 Check Digits

13.26 Set Length for Code 11



Set the Minimum Length (0~50 digits)



Set the Maximum Length (0~50 digits)

13.27 Code128

Code 128



Enable Code 128



Disable Code 128

ISBT-128



Disable ISBT 128



Enable ISBT 128

GS1-128



Enable GS1-128

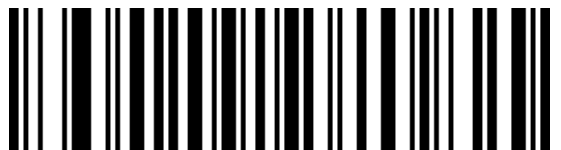


Disable GS1-128

Set Length for Code 128



Set the Minimum Length (0~50 digits)



Set the Maximum Length (0~50 digits)

13.28 UPC-A



Enable UPC-A



Disable UPC-A

UPC-A Check Digit



Transmit UPC-A Check Digits (default)



Do not Transmit UPC-A Check

Digits

Convert UPC-A to EAN-13



Enable Convert UPC-A to EAN-13



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

13.29 UPC-E



Enable UPC-E



Disable UPC-E

UPC-E Check Digit



Transmit UPC-E Check Digits (default)



Do Not Transmit UPC-E Check

Digit

Convert UPC-E to UPC-A



Enable Convert UPC-E to UPC-A



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

13.30 EAN/JAN-8



Enable EAN/JAN-8



Disable EAN/JAN-8

13.31 Convert EAN-8 to EAN-13



Disable Convert EAN-8 to EAN-13 (default)



Enable Convert EAN-8 to EAN-13

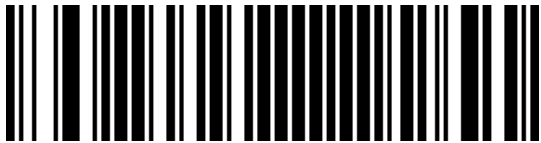
13.32 EAN/JAN-13



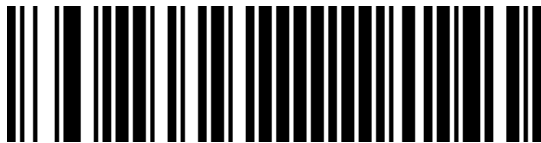
Enable EAN/JAN-13



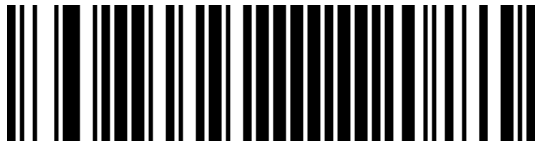
13.33 UPC/EAN/JAN Supplemental



Ignore UPC/EAN/JAN Supplemental



Decode UPC/EAN/JAN Supplemental



Autodiscriminate UPC/EAN/JAN Supplemental

Convert EAN13 to ISBN



Enable Convert EAN13 to ISBN



Disable Convert EAN13 to ISBN (default)

Convert EAN13 to ISSN



Enable Convert EAN13 to ISSN



Disable Convert EAN13 to ISSN (default)

13.34 GS1 DataBar (RSS14)



Enable GS1 DataBar



Disable GS1 DataBar

13.35 GS1 DataBar Limited



Enable GS1 DataBar Limited



Disable GS1 DataBar Limited

13.36 GS1 DataBar Expanded

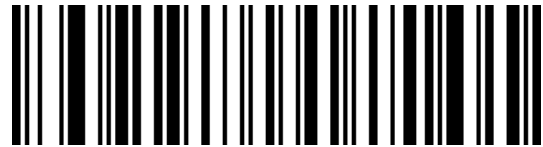


Enable GS1 DataBar Expanded



Disable GS1 DataBar Expanded

13.37 MSI

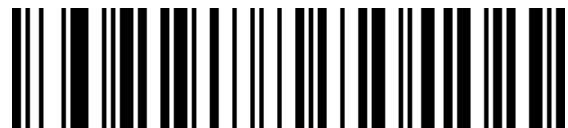


Enable MSI



Disable MSI (default)

MSI Check Digit Transmission



Transmit MSI Check Digit



Do Not Transmit MSI Check Digit (default)

MSI Check Digits



MSI 1 Check Digit (default)



MSI 2 Check Digits

MSI 2 Check Digit Option

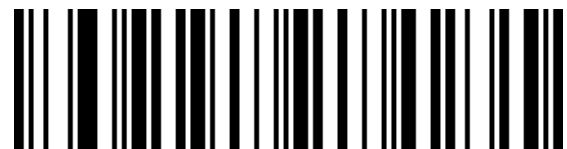


MOD10/MOD10 (default)



MOD10/MOD11

Set Length for MSI



Set the Minimum Length (0~50 digit

s)



Set the Maximum Length (0~50 digits)

13.38 Febraban

Note: Please disable AIM ID before enabling the Febraban



Enable Febraban (ITF25)



Disable Febraban (ITF25) (default)

Enable/Disable Febraban (CODE128)



Enable Febraban (CODE128)



Disable Febraban (CODE128) (default)

Febraban Check Digit



Enable Febraban Check Digit



Disable Febraban Check Digit (default)

13.39 PDF417



Enable PDF417

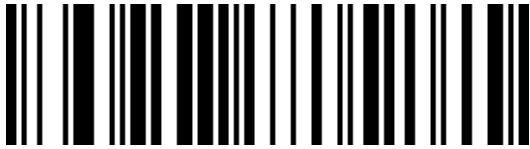


Disable PDF417

13.40 Micro PDF417



Enable Micro PDF417

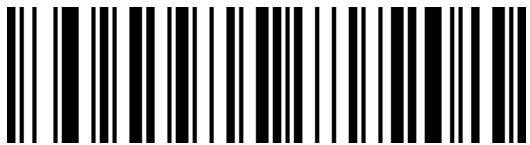


Disable Micro PDF417

13.41 QR Code



Enable QR



Disable QR

13.42 Micro QR



Enable Micro QR



Disable Micro QR

13.43 Data Matrix



Enable Data Matrix



Disable Data Matrix

9.33 Aztec Code



Enable Aztec



Disable Aztec

Appendix

Data and Digit Barcodes



0



1



2



3



4



5



6



7



8



9



A



B



C



D



E



F



Cancel Current Configuration



Cancel Last Strip Digits



Cancel Last Digit



Save

Barcode ID Table

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
GS1-128 (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

Symbolgoies	AIM ID	Description
Codabar	]Fm	m: 0~1
Code128	]Cm	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/IATA	]S0	
UPC-A/ UPC-E	]Em	m: 0, 3
ISBN	]X0	
ISSN	]X0	
MSI	]M1	
Aztec Code	]z0	
DataMatrix	]dm	m: 0~6
PDF417 / Micro PDF417	]Lm	m: 0~5
QR Code / Micro QR Code	]Qm	m: 0~6











Appendix 1 Control Character












Hex	ASCII	Character Set 0	Character Set 1	Character Set 2	Character Set 3	Character Set 4	Setup Barcode
1	SOH	NULL	Home	Ctrl+A	Alt+001	Enter- Keybad	
2	STX	Ctrl+B	End	Ctrl+B	Alt+002	Cap Lock	
3	ETX	Ctrl+C	Up Arrow	Ctrl+C	Alt+003	Right Arrow	
4	EOT	* Custom Keys 1	Down Arrow	Ctrl+D	Alt+004	Up Arrow	
5	ENQ	* Custom Keys 2	Left Arrow	Ctrl+E	Alt+005	NULL	
6	ACK	* Custom Keys 3	Right Arrow	Ctrl+F	Alt+006	NULL	
7	BEL	* Custom Keys 4	Shift+Tab	Ctrl+G	Alt+007	Enter	
8	BS	Back Space	Back Space	Back Space	Alt+008	Left Arrow	
9	HT	Tab	Tab	Tab	Alt+009	Tab	












10	LF	Enter	Enter	Ctrl+P	Alt+010	Down Arrow	
11	VT	NULL	NULL	Ctrl+Q	Alt+011	Tab	
12	FF	NULL	NULL	Ctrl+R	Alt+012	delete	
13	CR	Enter	Enter	Enter	Alt+013	Enter	
14	S0	F1	Page Up	Ctrl+N	Alt+014	Insert	
15	S1	F2	Page Down	Ctrl+O	Alt+015	Esc	
16	DLE	F3	F11	Ctrl+P	Alt+016	F11	
17	DC1	F4	NULL	Ctrl+Q	Alt+017	Home	
18	DC2	F5	NULL	Ctrl+R	Alt+018	Print Screen	
19	DC3	F6	NULL	Ctrl+S	Alt+019	Back Space	
20	DC4	F7	NULL	Ctrl+T	Alt+020	Shift tab	
21	NAK	F8	F12	Ctrl+U	Alt+021	F12	

22	SYN	F9	F1	Ctrl+V	Alt+022	F1	
23	TB	F10	F2	Ctrl+W	Alt+023	F2	
24	CAN	F11	F3	Ctrl+X	Alt+024	F3	
25	EM	F12	F4	Ctrl+Y	Alt+025	F4	
26	SUB	NULL	F5	Ctrl+Z	Alt+026	F5	
27	Esc	Esc	F6	Ctrl+[	Alt+027	F6	
28	FS	ALT+028	F7	Ctrl+\	Alt+028	F7	
29	GS	ALT+029	F8	Ctrl+]	Alt+029	F8	
30	RS	NULL	F9	Ctrl+^	Alt+030	F9	
31	US	NULL	F10	Ctrl+_	Alt+031	F10	


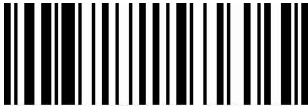
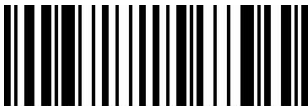








Appendix 2 Visible ASCII Character












Hexi	ASCII	Setting Barcode
32	Space	
33	!	
34	"	
35	#	
36	\$	
37	%	
38	&	
39	'	
40	(
41)	

42	*	
43	+	
44	,	
45	-	
46	.	
47	/	
48	0	
49	1	
50	2	
51	3	
52	4	












53	5	
54	6	
55	7	
56	8	
57	9	
58	:	
59	;	
60	<	
61	=	
62	>	
63	?	












64	@	
65	A	
66	B	
67	C	
68	D	
69	E	
70	F	
71	G	
72	H	
73	I	
74	J	

75	K	
76	L	
77	M	
78	N	
79	O	
80	P	
81	Q	
82	R	
83	S	
84	T	
85	U	

86	V	
87	W	
88	X	
89	Y	
90	Z	
91	[
92	\	
93]	
94	^	
95	-	
96	`	

97	a	
98	b	
99	c	
100	d	
101	e	
102	f	
103	g	
104	h	
105	i	
106	j	
107	k	

108	l	
109	m	
110	n	
111	o	
112	p	
113	q	
114	r	
115	s	
116	t	
117	u	
118	v	

119	w	
120	x	
121	y	
122	z	
123	{	
124	|	
125	}	
126	~	
127	DEL	
199	Ç	
231	ç	

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 valule for all symbologies;

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

Steps:

1. Scan Parameter Barcode **Set Custom Prefix**, Scanner will beep twice;
2. 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:

1. Scan Parameter Barcode Set Custom Prefix;
2. 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 for barcode

Example 2.1: Set length 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 for Interleaved 2 of 5 as 14 digits

Method 1 . Scan parameter barcode **Set length for ITF25 as 14 digits**

Method 2.

Step:

1. Scan parameter barcode **Set Minimum Length for Interleaved 2 of 5**
2. Scan parameter barcode **1, 4, save** in the appendix **Data and digital Barcodes**
3. Scan parameter barcode **Set Maximum Length for Interleaved 2 of 5**
4. 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 **o, Save** in the appendix **Data and Digital Barcodes**

3. Scan parameter barcode **Set Maximum Length for Code39**

4. Scan parameter barcode **o, Save** in the appendix **Data and Digital Barcodes**