DP9280G Barcode Scanner User Manual

Release v1.1.1

2026-09-02

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1 System Settings

1.1 Factory Default Settings

Scan the following Parameter Barcode to restore the product to factory default settings.

Restore Secondary Factory Defaults

1.2 Product User Configuration

Scan the following Parameter Barcode to save the current parameters as user configuration.

Save User Configuration

Scan the following Parameter Barcode to restore the saved user configuration.

Restore User Configuration

1.3 Firmware Version

Firmware Version

1.4 Buzzer Settings

Volume Level

Low Volume

* High Volume

Barcode Reader Power-On Beep Enable/Disable

Disable Barcode Reader Power-On Beep

* Enable Barcode Reader Power-On Beep

Good Read Beep Enable/Disable

Disable Good Read Beep

* Enable Good Read Beep

Good Read Beep Frequency (Tone)

* Good Read Beep Frequency 1

Good Read Beep Frequency 2

Decode Beep Frequency 3

Custom Decode Beep Frequency

Decode Beep Duration

* Decode Beep 1

Decode Beep 2

Error Alert Tone Frequency

Four consecutive error beeps sound when data transmission fails. A single error beep sounds when an unrecognized Parameter Barcode is scanned.

* Low Error Alert Tone Frequency

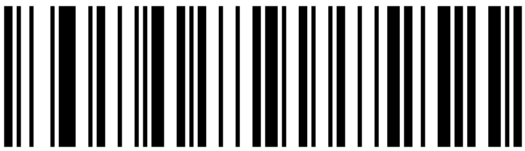
Medium Error Alert Tone Frequency

High Error Alert Tone Frequency

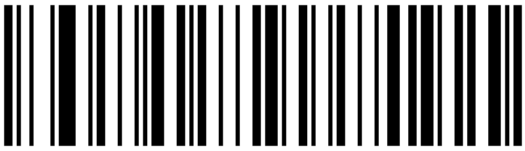
2 Device Feature Settings

2.1 Light Settings

LED Indicator



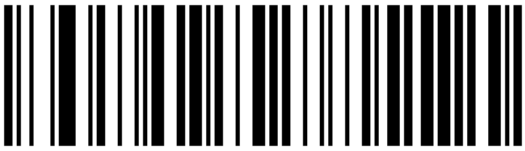
Disable Good Read LED Indicator



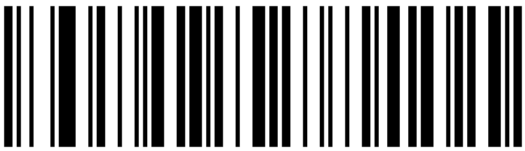
* Enable Good Read LED Indicator

2.2 Invoice function

Enable/Disable Invoice Function



* Disable Invoice Function

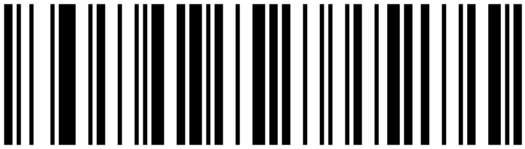


Enable Invoice Function

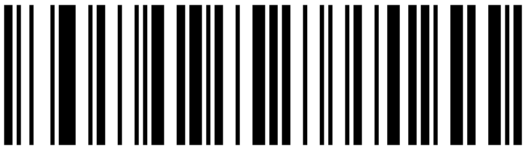
Important

Enabling the invoice function depends on correct Chinese character and encoding output settings. GBK encoding is recommended (Notepad/Excel). Also disable features such as Code ID, custom prefixes/suffixes, and start characters that modify the original barcode content.

Invoice Type Selection



* Special invoice



Ordinary invoice

3 Trigger Settings

3.1 Scan Mode

* Normal mode

1D Quick Scan Mode

Same Symbol Timeout

Used to configure the interval for decoding the same barcode. If the configured time has not elapsed, the same barcode will be decoded only once.

Same Symbol Timeout: 300 ms

* Same Symbol Timeout: 500 ms

Same Symbol Timeout: 750 ms

Same Symbol Timeout: 1 s

Same Symbol Timeout: 2 s

Same Symbol Timeout: 5 s

Same Symbol Timeout: 10 s

4 Interface Settings

This barcode reader supports USB HID Keyboard and USB COM interface modes.

4.1 USB HID Keyboard

Scan the parameter barcode below to configure the barcode reader for USB HID Keyboard.

USB HID Keyboard

4.2 USB COM

Scan the parameter barcode below to configure the barcode reader for USB COM. Install the required driver before using this mode.

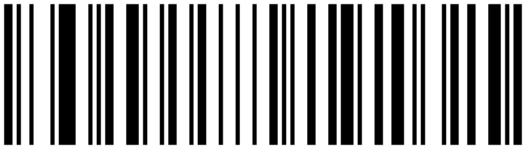
USB COM

5 Keyboard Settings

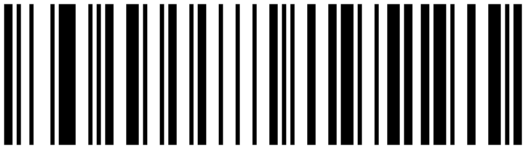
5.1 USB Keyboard Settings

Control Character Escape

Enable Control Character Escape 1



Enable Control Character Escape 2



Disable Control Character Escape

Handling of Carriage Return/Line Feed in Barcode Data (USB Keyboard)

Use Only 0A (LF) as Line Feed

* Use Only 0D (CR) as Line Feed

Use Both 0A (LF) and 0D (CR) as Line Feed

USB Keyboard Output Speed

Note

Used to configure the output speed in USB keyboard mode. If the host performance is limited, low speed is recommended to ensure reliable transmission.

* Low Output Speed

Medium Output Speed

High Output Speed

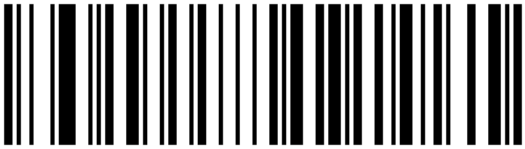
Custom Output Speed (2 ms to 50 ms)

USB Keyboard Letter Case Control

* Normal Output

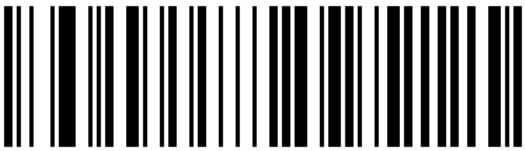
Invert Letter Case

all caps



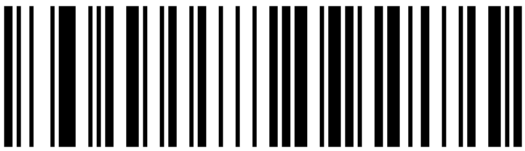
all lowercase

Keyboard Layout Selection

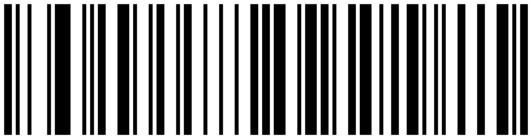


* English (United States)

French (France)

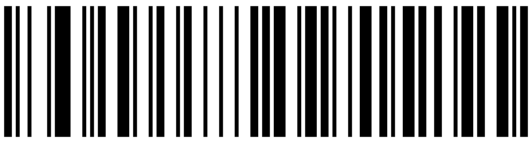


Italian (Italy)

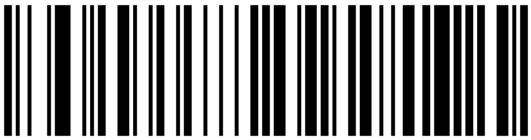


Italian 142 (Italy)

German (Germany)

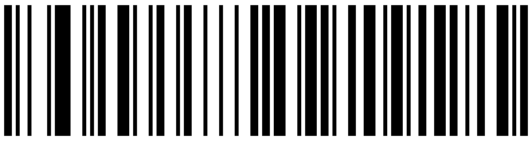


Spanish (Spain)

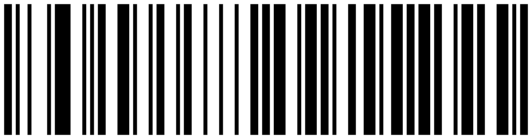


Spanish (Latin America)

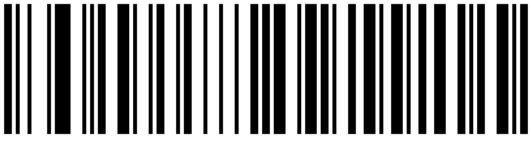
Finnish



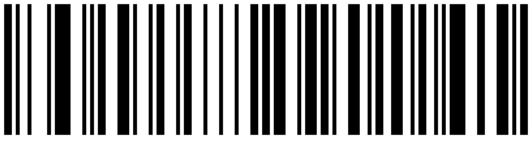
Japanese



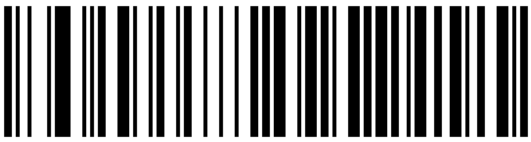
Russian (MS)



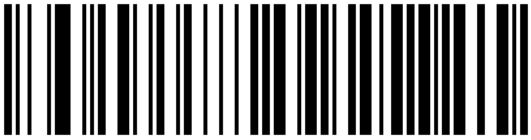
Russian (typewriter)



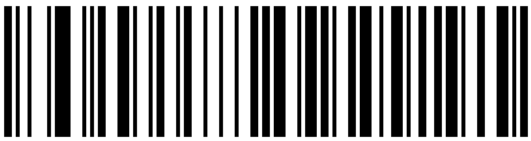
Arabic (101)



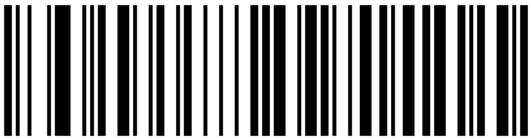
Irish



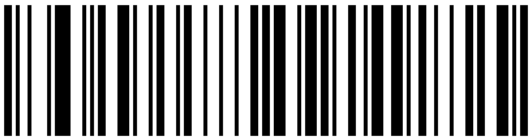
Polish (214)



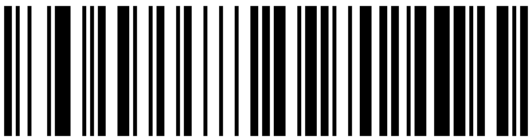
Polish (Programmers)



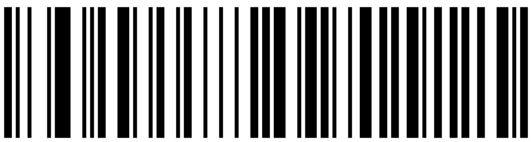
Dutch (Netherlands)



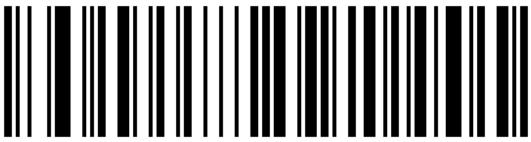
Czech (QWERTZ)



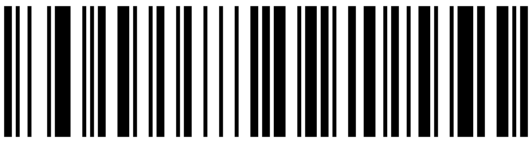
Portuguese (Portugal)



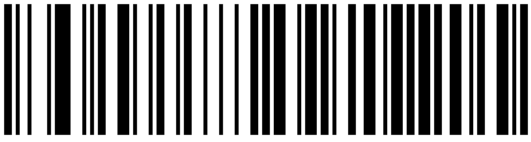
Portuguese (Brazil)



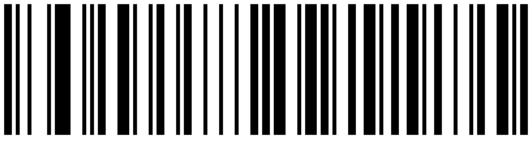
Swedish (Sweden)



Turkish Q

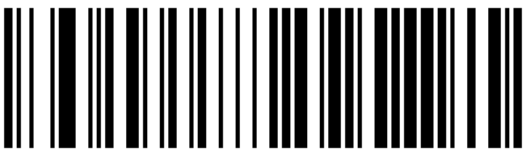


Turkish F



Greek (MS)

French (Belgium)



English (UK)

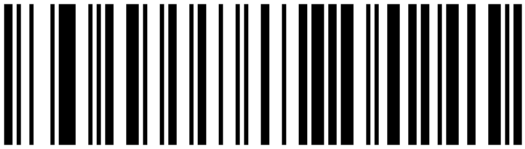
Virtual Keyboard

Mode 1: Characters between `0x20` and `0xFF` that are not supported in the current keyboard layout are output using the virtual keyboard. Characters between `0x00` and `0x1F` are output according to *Control Character Set (USB Keyboard Mode)*.

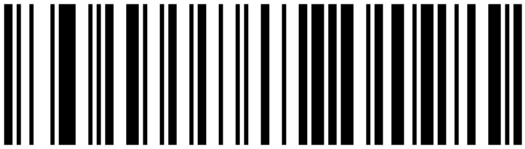
Mode 2: All characters between `0x20` and `0xFF` are output using the virtual keyboard. Characters between `0x00` and `0x1F` are output according to *Control Character Set (USB Keyboard Mode)*.

Mode 3: All characters used between `0x00` and `0xFF` are output using the virtual keyboard.

* Virtual Keyboard Disable



Virtual Keyboard Enable (Mode 1)



Virtual Keyboard Enable (Mode 2)

Virtual Keyboard Enable (Mode 3)

Host Operating System Selection in Virtual Keyboard Mode

* WINDOWS

MAC OS

LINUX

Output Encoding Format

To output correctly in the specified encoding format, configure the output encoding format accordingly. For example, use GBK for Simplified Chinese output in Notepad/Excel, and Unicode for output in Word.

When the output encoding format is set to English/Latin-1, USB keyboard output is affected by the virtual keyboard switch. When it is set to GBK or Unicode, USB keyboard output is forced to use the virtual keyboard.

* Native Keyboard Output

Chinese GBK Encoding (Notepad/Excel)

Unicode Encoding (Word)

6 Data Editing

6.1 Prefix and Suffix Settings

Prefix

* Do Not Use Prefix

Set Prefix to STX

Terminator

Do Not Use terminator

Set terminator to Carriage Return

Set terminator to Line Feed

* Set terminator to Carriage Return + Line Feed

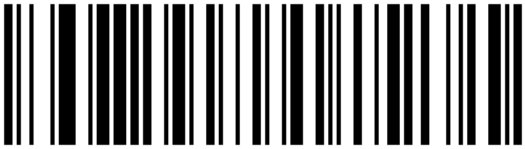
Set terminator to Tab

Set terminator to ETX

Custom Prefix

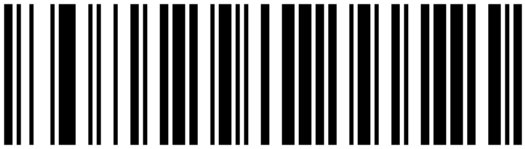
Output Options

Enable Custom Prefix Output

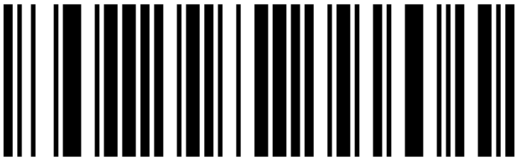


* Disable Custom Prefix Output

Edit



Clear All Custom Prefixes



Custom Prefix

See also

After scanning this Parameter Barcode, refer to *Barcode Type ID Table* and *Data and Editing Barcodes* to complete the remaining input.

Custom Suffix

Output Options

Enable Custom Suffix Output

* Disable Custom Suffix Output

Edit

Clear All Custom Suffixes

Custom Suffix

See also

After scanning this Parameter Barcode, refer to *Barcode Type ID Table* and *Data and Editing Barcodes* to complete the remaining input.

Code ID

Output Options

* Disable Code ID

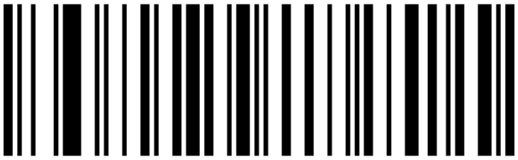
Enable Code ID Before Barcode Data

Enable Code ID After Barcode Data

Edit

Custom Code ID

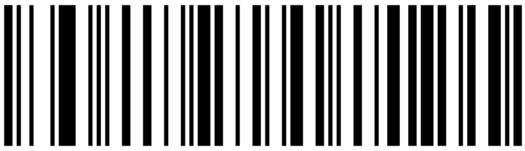
> **See also**
>
> After scanning this Parameter Barcode, refer to *Barcode Type ID Table* and *Data and Editing Barcodes* to complete the remaining input.



Clear All Custom Code IDs

AIM ID

* Disable AIM ID



Enable AIM ID Before Barcode Data

Enable AIM ID After Barcode Data

Barcode Prefix/Suffix Order Selection

Prefix

* Start Character + Code ID + AIM ID + Custom Prefix

Start Character + Custom Prefix + Code ID + AIM ID

Suffix

* Custom Suffix + Code ID + AIM ID + Terminator

Code ID + AIM ID + Custom Suffix + Terminator

6.2 Data Editing Field Settings

The data editing function can divide the complete Data field of the barcode content into the Start, Center, and End fields by configuring the Start/End field lengths. Configure the Start/End field lengths and transmission options as needed.

> **Note**
>
> Custom prefixes and suffixes, start characters, terminators, Code ID, AIM ID, and other content outside the barcode data itself are not affected by the data editing function.

Transmission Settings

* Transmit Complete Data Field

Transmit Start Field Only

Transmit Center Field Only

Transmit End Field Only

Field Length Settings

Set Start Field Length

Set End Field Length

Note

Field lengths are configured in bytes using decimal values.

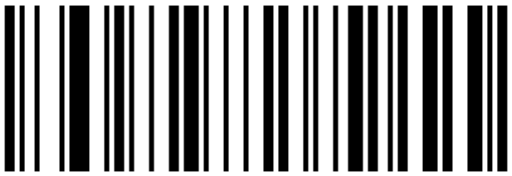
Example

Set the Start field length to 10 bytes:

1. Scan the “Set Start Field Length” Parameter Barcode.
2. Scan `1` and `0` in *Data and Editing Barcodes* in sequence.
3. Scan the “Save” Parameter Barcode.

7 Character Settings

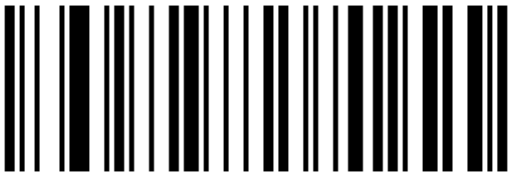
7.1 GS Control Character Replacement



* Do Not Replace

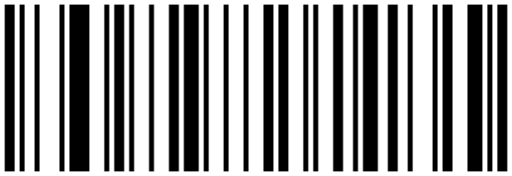
Important

To output the character “Ç”, first scan “Enable Virtual Keyboard (Mode 1)”, (Mode 2), or (Mode 3).

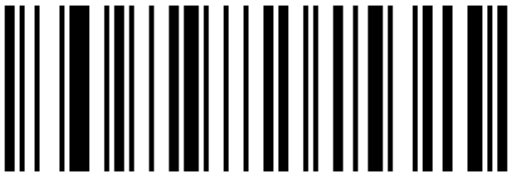


Replace with Ç

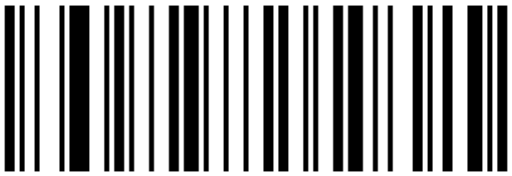
Replace with |



Replace with ^]



Replace with]



Replace with

7.2 Control Character Output

Do Not Output Control Characters in Barcode Data

* Output Control Characters in Barcode Data

8 Barcode Settings

8.1 Symbology Selection

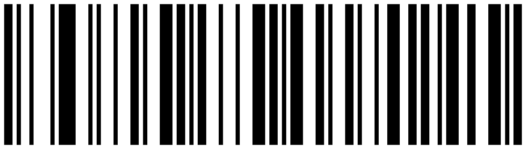
Enable/Disable All Barcodes

> **Note**
>
> Enabling all barcode types may reduce decoding speed. Enable only the required barcode types based on your application. All barcode types are enabled by default.

Enable All Barcode Types

Disable All Barcode Types

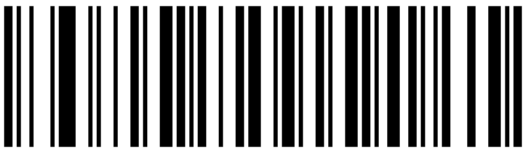
Enable/Disable All 1D Barcodes



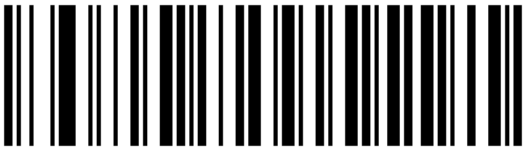
Enable All 1D Symbologies

Disable All 1D Symbologies

Enable/Disable All 2D Barcodes



Enable All 2D Symbologies



Disable All 2D Symbologies

Codabar

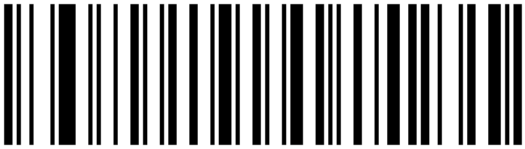
Enable/Disable Symbology

Codabar Enable

Codabar Disable

Codabar Start/Stop Characters

* Do Not Transmit Codabar Start/Stop Characters



Transmit Codabar Start/Stop Characters

Codabar Length Restriction Settings

> **Note**
>
> Length Range: `0-50 digits`.

Codabar Minimum Length Restriction

> **Note**
>
> Length Range: `0-50 digits`.

Codabar Maximum Length Restriction

Code 39

Enable/Disable Symbology

Code 39 Enable

Code 39 Disable

Code 39 Check Digit

* Disable Code 39 Check Digit

Enable Code 39 Check Digit Without Transmitting the Check Digit

Enable Code 39 Check Digit and Transmit the Check Digit

Code 39 Full ASCII

Enable Full ASCII

* Disable Full ASCII

Code 39 Start/Stop Characters

* Do Not Transmit Code 39 Start/Stop Characters

Transmit Code 39 Start/Stop Characters

Code 39 Length Limit Settings

> **Note**
>
> Length Range: `0-50 digits`.

Code 39 Minimum Length Limit

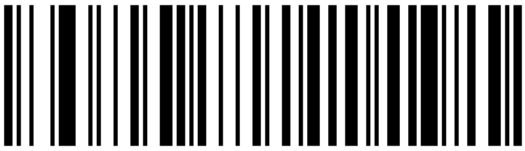
> **Note**
>
> Length Range: `0-50 digits`.

Code 39 Maximum Length Limit

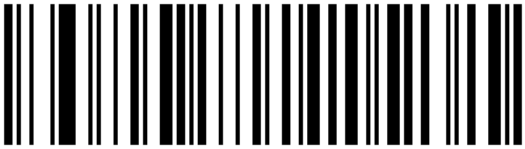
Code 32

> **Important**
>
> Enable Code 39 before using this function.

Enable/Disable Symbology



Code 32 Enable



Code 32 Disable

Code 32 prefix

Code 32 Prefix Enable

* Disable Code 32 Prefix

Interleaved 2 of 5 (ITF25)

Enable/Disable Symbology

ITF25 Enable

ITF25 Disable

Interleaved 2 of 5 (ITF25) Check Digit

* Disable ITF25 Check Digit

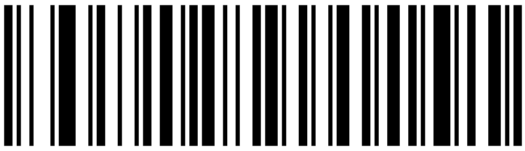
ITF25 Check Digit Enable Without Transmission

ITF25 Check Digit Enable and Transmit

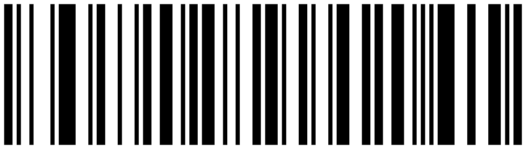
Interleaved 2 of 5 (ITF25) Length Selection

> **Note**
>
> Length range: `4-24 digits`.

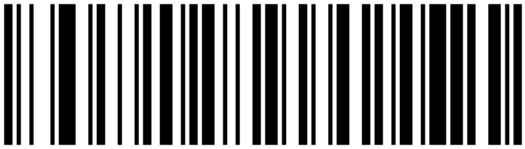
* ITF25 Any Length



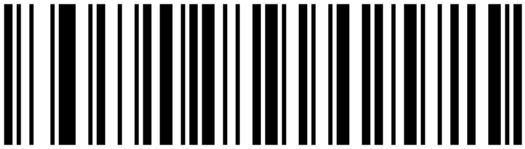
ITF25 6-Digit Length



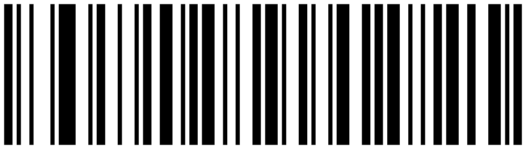
ITF25 8-Digit Length



ITF25 10-Digit Length



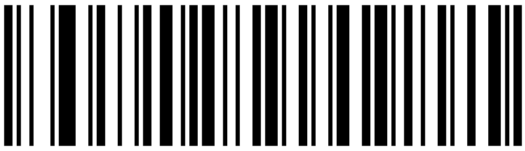
ITF25 12-Digit Length



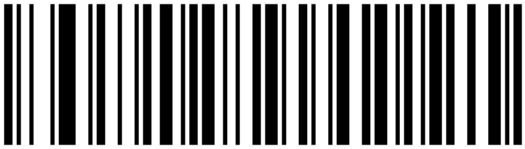
ITF25 14-Digit Length

ITF25 16-Digit Length

ITF25 18-Digit Length



ITF25 20-Digit Length



ITF25 22-Digit Length

ITF25 24-Digit Length

Interleaved 2 of 5 Length Limit Settings

> **Note**
>
> Length Range: `0-50 digits`.

Interleaved 2 of 5 Minimum Length Limit

> **Note**
>
> Length Range: `0-50 digits`.

Interleaved 2 of 5 Maximum Length Limit

Industrial 2 of 5 / IATA

Enable/Disable Symbology

Industrial 2 of 5 / IATA Enable

Industrial 2 of 5 / IATA Disable

Industrial 2 of 5 / IATA Length Limit Settings

> **Note**
>
> Length Range: `0-50 digits`.

Industrial 2 of 5 / IATA Minimum Length Limit

> **Note**
>
> Length Range: `0-50 digits`.

Industrial 2 of 5 / IATA Maximum Length Limit

Matrix 2 of 5

Note

Setting range: `4-24 digits`.

Enable/Disable Symbology

Matrix 2 of 5 Enable

Matrix 2 of 5 Disable

Matrix 2 of 5 Length Limit Settings

Note

Length Range: `0-50 digits`.

Matrix 2 of 5 Minimum Length Limit

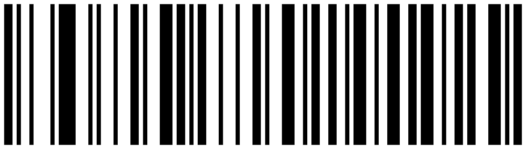
Note

Length Range: `0-50 digits`.

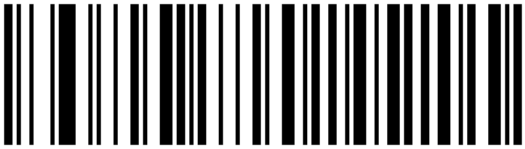
Matrix 2 of 5 Maximum Length Limit

Code 93

Enable/Disable Symbology



Code 93 Enable



Code 93 Disable

Code 93 Length Limit Settings

> **Note**
>
> Length Range: `0-50 digits`.

Code 93 Minimum Length Limit

> **Note**
>
> Length Range: `0-50 digits`.

Code 93 Maximum Length Limit

Code 11

Enable/Disable Symbology

Code 11 Enable

* Code 11 Disable

Code 11 Check Digit Output

Code 11 Check Digit Output Enable

* Disable Code 11 Check Digit Output

Code 11 Check Selection

* Disable Code 11 Check Digit

Code 11 1-Digit Check

Code 11 2-Digit Check

Code 11 Length Limit Settings

> **Note**
>
> Length Range: `0-50 digits`.

Code 11 Minimum Length Limit

> **Note**
>
> Length Range: `0-50 digits`.

Code 11 Maximum Length Limit

Code 128

Code 128 Enable

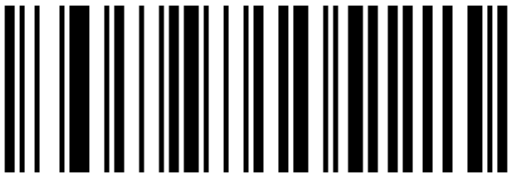
Code 128 Disable

GS1-128

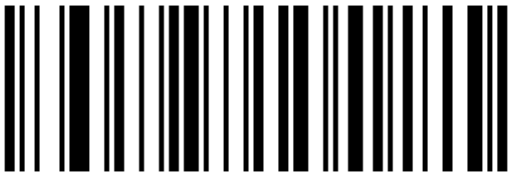
GS1-128 Enable

GS1-128 Disable

ISBT-128



ISBT 128 Disable



ISBT 128 Enable

Code 128 Length Limit Settings

> **Note**
>
> Length Range: `0-50 digits`.

Code 128 Minimum Length Limit

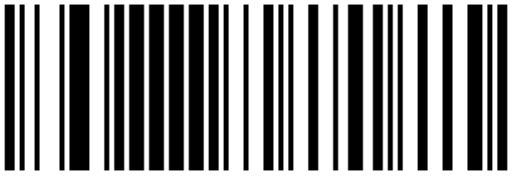
Note

Length Range: `0-50 digits`.

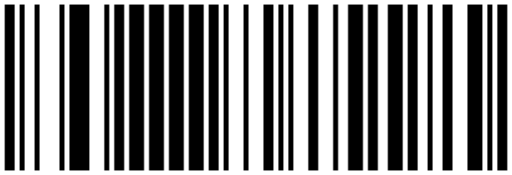
Code 128 Maximum Length Limit

UPC-A

Enable/Disable Symbology



* UPC-A Enable



UPC-A Disable

UPC-A Check Digit

* Transmit UPC-A Check Digit

Do Not Transmit UPC-A Check Digit

UPC-A Leading Character

(UPC-A to EAN-13) UPC-A Transmit Country Code + System Character

* UPC-A Transmit System Character

Do Not Transmit UPC-A Leading Character

UPC-E

Enable/Disable Symbology

* UPC-E Enable

UPC-E Disable

UPC-E Check Digit

* Transmit UPC-E Check Digit

Do Not Transmit UPC-E Check Digit

UPC-E Expand to UPC-A

Enable UPC-E Expand to UPC-A

* Disable UPC-E Expand to UPC-A

UPC-E Leading Character

UPC-E Transmit Country Code + System Character

* UPC-E Transmit System Character

Do Not Transmit UPC-E Leading Character

EAN/JAN-8

Enable/Disable Symbology

EAN/JAN-8 Enable

EAN/JAN-8 Disable

EAN-8 Convert to EAN-13

* Disable EAN-8 Convert to EAN-13

Enable EAN-8 Convert to EAN-13

EAN-8 Check Digit

* Transmit EAN-8 Check Digit

Do Not Transmit EAN-8 Check Digit

EAN/JAN-13

* EAN/JAN-13 Enable

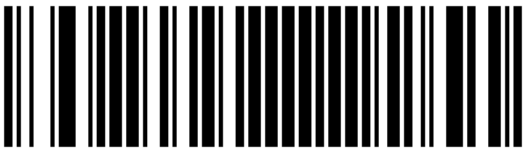
EAN/JAN-13 Disable

EAN-13 Check Digit

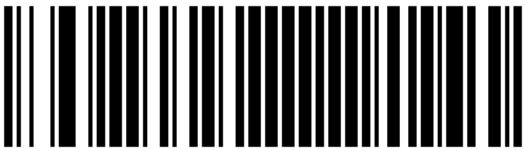
* Transmit EAN-13 Check Digit

Do Not Transmit EAN-13 Check Digit

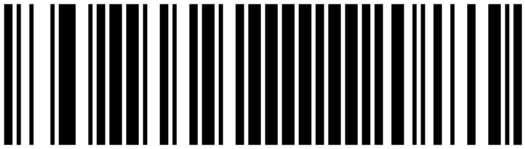
UPC/EAN/JAN Supplemental Code



* Ignore UPC/EAN/JAN Supplemental Code

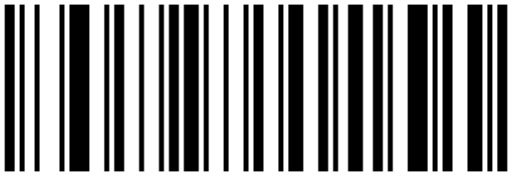


Decode UPC/EAN/JAN Supplemental Code

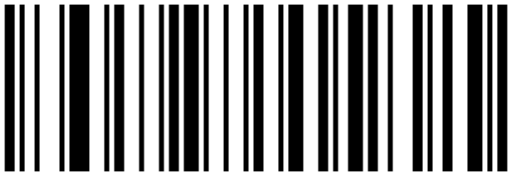


Adaptive UPC/EAN/JAN Supplemental Code

EAN-13 Convert to ISBN

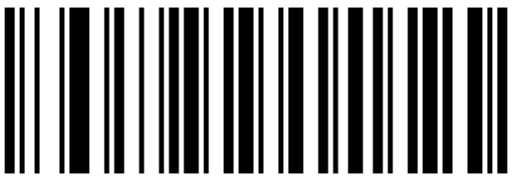


Enable EAN-13 to ISBN Conversion

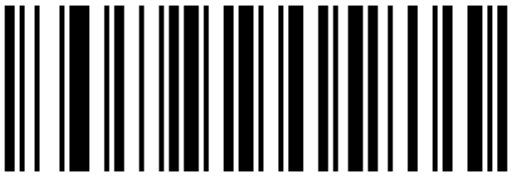


* Disable EAN-13 to ISBN Conversion

EAN-13 Convert to ISSN

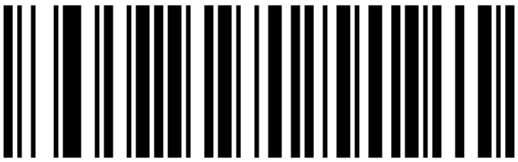


Enable EAN-13 to ISSN Conversion



* Disable EAN-13 to ISSN Conversion

GS1 DataBar (RSS14)



GS1 DataBar Enable

* GS1 DataBar Disable

GS1 DataBar Limited

GS1 DataBar Limited Enable

* GS1 DataBar Limited Disable

GS1 DataBar Expanded

GS1 DataBar Expanded Enable

* GS1 DataBar Expanded Disable

MSI

Enable/Disable MSI Symbology

MSI Enable

MSI Disable

MSI Check Digit Output

MSI Check Digit Output Enable

MSI Check Digit Output Disable

MSI Check Digit Selection

MSI 1-Digit Check Digit

MSI 2-Digit Check Digit

MSI 2-Digit Check Selection

MOD10/MOD10

MOD10/MOD11

MSI Length Limit Settings

> **Note**
>
> Length range: `0~50`.

MSI Minimum Length

> **Note**
>
> Length range: `0~50`.

MSI Maximum Length

Febraban

> **Important**
>
> Disable the AIM ID function before enabling the Febraban function.

Enable/Disable Febraban Symbology (ITF25)

Febraban (ITF25) Enable

* Febraban (ITF25) Disable

Enable/Disable Febraban Symbology (Code 128)

Febraban (Code 128) Enable

* Febraban (Code 128) Disable

Febraban Check

Febraban Check Enable

* Febraban Check Disable

PDF417

Enable/Disable PDF417

PDF417 Enable

PDF417 Disable

PDF417 Length Limit Settings

> **Note**
>
> Length range: `1~2750`.

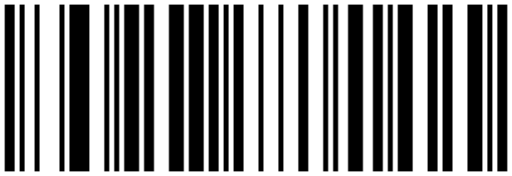
PDF417 Minimum Length Limit

> **Note**
>
> Length range: `1~2750`.

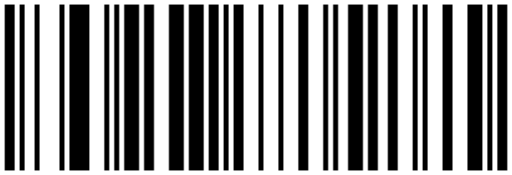
PDF417 Maximum Length Limit

MicroPDF417

Enable/Disable MicroPDF417



MicroPDF417 Enable



MicroPDF417 Disable

MicroPDF417 Length Limit Settings

> **Note**
>
> Length range: `1~366`.

MicroPDF417 Minimum Length Limit

> **Note**
>
> Length range: `1~366`.

MicroPDF417 Maximum Length Limit

QR Code

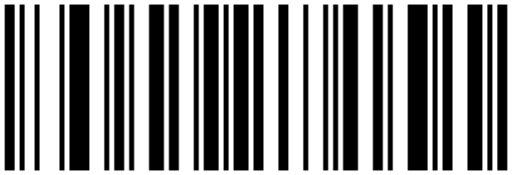
Enable/disable QR Code

QR Code Enable

QR Code Disable

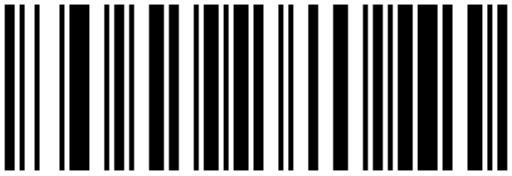
QR Code Length Limit Settings

> **Note**
>
> Length range: `1~7089`.



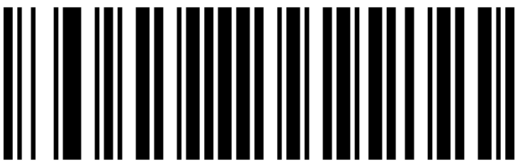
QR Code Minimum Length Limit

> **Note**
>
> Length range: `1~7089`.

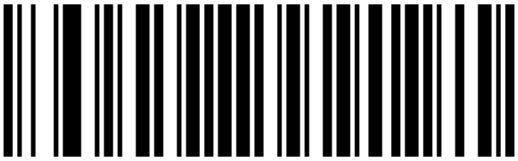


QR Code Maximum Length Limit

QR Code URL Link



QR Code URL Link Disable



QR Code URL Link Enable

Micro QR

Enable/Disable Micro QR

Micro QR Enable

Micro QR Disable

Micro QR Length Limit Settings

> **Note**
>
> Length range: `1~35`.

Micro QR Minimum Length Limit

> **Note**
>
> Length range: `1~35`.

Micro QR Maximum Length Limit

Data Matrix

Enable/Disable Data Matrix

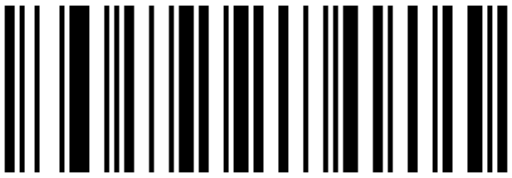
> **Note**
>
> Length range: `1~3116`.

Data Matrix Enable

Data Matrix Disable

Data Matrix Length Limit Settings

> **Note**
>
> Length range: `1~3116`.



Data Matrix Minimum Length Limit

> **Note**
>
> Length range: `1~3116`.

Data Matrix Maximum Length Limit

Aztec Code

Enable/Disable Aztec Code

Aztec Code Enable

Aztec Code Disable

Aztec Code Length Limit Settings

> **Note**
>
> Length range: `1~3832`.

Aztec Code Minimum Length Limit

> **Note**
>
> Length range: `1~3832`.

Aztec Code Maximum Length Limit

8.2 Decode Enhancement Options

Performance Demo Barcode

> **Note**
>
> This is a temporary setting and becomes invalid after restart.

Enable Performance Demo Mode

Inverse Barcode Decode Options

(For 1D barcodes / Data Matrix / Aztec Code)

* Decode Normal Barcodes Only

Decode Inverse Barcodes Only

Decode Both Normal and Inverse Barcodes

Non-standard Barcode Options

> **Warning**
>
> When non-standard barcode decoding is enabled, compatibility with some poorly printed barcodes is improved, but the probability of decoding errors also increases.

* Non-standard Barcode Decoding Disable

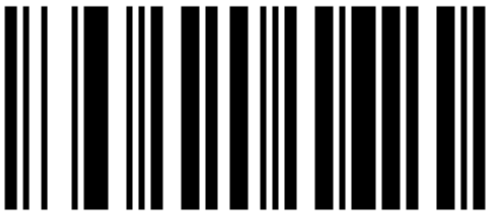
Non-standard Barcode Decoding Enable

9 Appendix

9.1 Data and Editing Barcodes

0

1

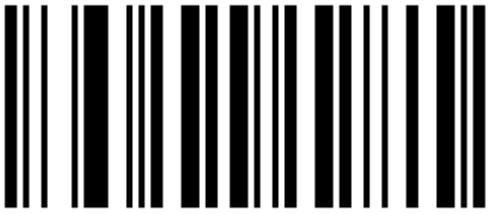


2

3

4

5



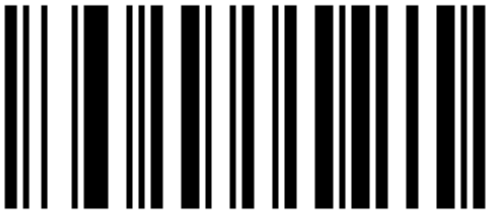
6

7

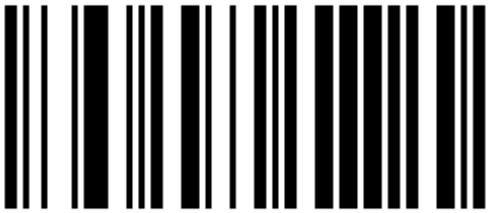
8

9

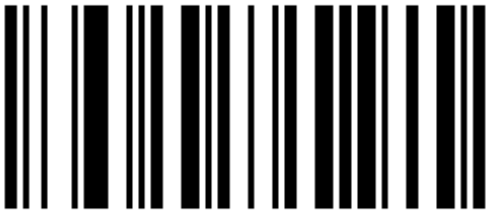
A



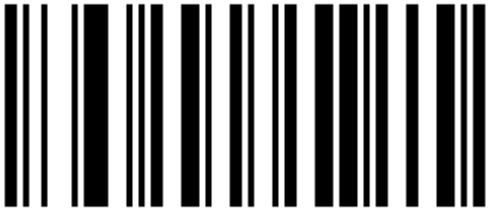
B



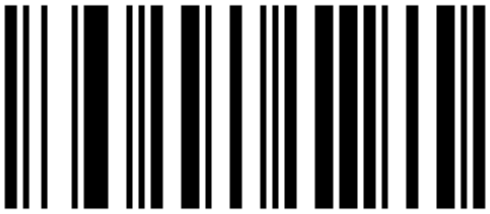
C



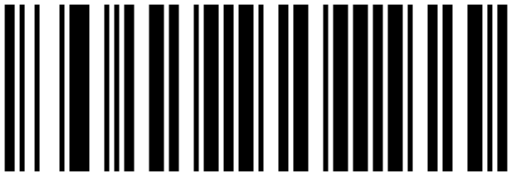
D



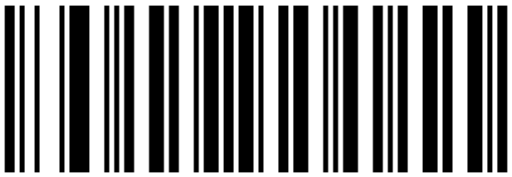
E



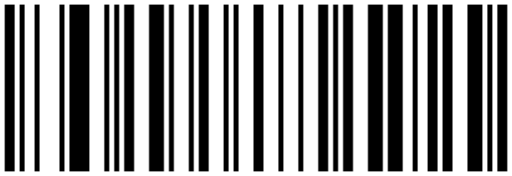
F



Cancel Current Setting



Cancel the Previously Scanned Data String



Cancel the Previously Scanned Data

Save

9.2 Barcode Type ID Table

Symbology Type	Hex Value	Default Code ID
All Symbologies	99	
Codabar	61	a
Code 128	6A	j
Code 32	3C	<
Code 93	69	i
Code 39	62	b
Code 11	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
Industrial 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
Data Matrix	75	u
PDF417	72	r
MicroPDF417	53	S
QR Code	51	Q
Micro QR	51	Q

9.3 AIM ID Table

Symbology Type	AIM ID	Description
Codabar	]Fm	m: 0~1
Code 128	]Cm	m: 0, 1, 2, 4
Code 32	]A0	
Code 93	]G0	
Code 39	]Am	m: 0, 1, 3, 4, 5, 7
Code 11	]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	
Industrial 2 of 5/IATA	]S0	
UPC-A/ UPC-E	]Em	m: 0, 3
ISBN	]X0	
ISSN	]X0	
MSI	]Mm	m: 0, 1
Aztec Code	]z0	
Data Matrix	]dm	m: 0~6
PDF417 / MicroPDF417	]Lm	m: 0~5
QR Code / Micro QR	]Qm	m: 0~6

9.4 Printable ASCII Table

Decimal	Hexadecimal	Character	Decimal	Hexadecimal	Character	Decimal	Hexadecimal	Character
32	20		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

continues on next page

Table 1 – continued from previous page

Decimal	Hexadecimal	Character	Decimal	Hexadecimal	Character	Decimal	Hexadecimal	Character
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	_			

9.5 Control Character Set (USB Keyboard Mode)

Decimal	Hexadecimal	Corresponding Key Value (Control Character Escape Disabled)	Corresponding Key Value (Control Character Escape 1)	Corresponding Key Value (Control Character Escape 2)
0	00	Reserved	Ctrl+@	Ctrl+@
1	01	Insert	Ctrl+A	Ctrl+A
2	02	Home	Ctrl+B	Ctrl+B
3	03	End	Ctrl+C	Ctrl+C
4	04	Delete	Ctrl+D	Ctrl+D
5	05	PageUp	Ctrl+E	Ctrl+E
6	06	PageDown	Ctrl+F	Ctrl+F
7	07	ESC	Ctrl+G	Ctrl+G
8	08	Backspace	Ctrl+H	Backspace
9	09	Tab	Ctrl+I	Tab
10	0A	Enter (Behavior depends on the CR/LF handling setting)	Ctrl+J	Enter
11	0B	Caps Lock	Ctrl+K	Ctrl+K
12	0C	Print Screen	Ctrl+L	Ctrl+L
13	0D	Enter (Behavior depends on the CR/LF handling setting)	Ctrl+M	Enter
14	0E	Scroll Lock	Ctrl+N	Ctrl+N
15	0F	Pause/Break	Ctrl+O	Ctrl+O
16	10	F11	Ctrl+P	Ctrl+P

continues on next page

Table 2 – continued from previous page

Decimal	Hexadecimal	Corresponding Key Value (Control Character Escape Disabled)	Corresponding Key Value (Control Character Escape 1)	Corresponding Key Value (Control Character Escape 2)
17	11	Arrow Key Up	Ctrl+Q	Ctrl+Q
18	12	Arrow Key Down	Ctrl+R	Ctrl+R
19	13	Arrow Key Left	Ctrl+S	Ctrl+S
20	14	Arrow Key Right	Ctrl+T	Ctrl+T
21	15	F12	Ctrl+U	Ctrl+U
22	16	F1	Ctrl+V	Ctrl+V
23	17	F2	Ctrl+W	Ctrl+W
24	18	F3	Ctrl+X	Ctrl+X
25	19	F4	Ctrl+Y	Ctrl+Y
26	1A	F5	Ctrl+Z	Ctrl+Z
27	1B	F6	Ctrl+[	Ctrl+[
28	1C	F7	Ctrl+\	Ctrl+\
29	1D	F8	Ctrl+]	Ctrl+]
30	1E	F9	Ctrl+^	Ctrl+^
31	1F	F10	Ctrl+_	Ctrl+_

9.6 Control Character Set (Serial Port and USB Virtual COM Port)

Decimal	Hexadecimal	Corresponding 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

continues on next page

Table 3 – continued from previous page

Decimal	Hexadecimal	Corresponding Character
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

9.7 Configuration Notes and Examples for Selected Functions

Custom Prefix/Suffix Configuration Examples

Note

Scan barcodes to configure barcode prefixes and suffixes. Each prefix or suffix can contain up to 10 characters. (To ensure custom prefixes and suffixes can be output, enable the custom prefix/suffix output option on the Barcode Reader.)

Example 1.1: Add the custom prefix XYZ to all barcode types

Look up *Barcode Type ID Table*: the hexadecimal value for all symbologies is `99`. Look up *Printable ASCII Table*: the hexadecimal values for XYZ are `58`, `59`, `5A`.

1. Scan the "Custom Prefix" Parameter Barcode. The Barcode Reader will emit two beep tones.
2. Scan `9`, `9`, `5`, `8`, `5`, `9`, `5`, and `A` in *Data and Editing Barcodes* in sequence.
3. Scan the "Save" Parameter Barcode.

Note

If you need to modify the scanned data before saving, scan Cancel the Last Scanned Data or Cancel the Previously Scanned Data String to reconfigure it. To abandon the current configuration midway, scan Cancel Current Setting directly.

Example 1.2: Add the custom prefix R to QR Code

Look up *Barcode Type ID Table*: the hexadecimal value for QR Code is `51`. Look up *Printable ASCII Table*: the hexadecimal value for R is `52`.

1. Scan the "Custom Prefix" Parameter Barcode.
2. Scan `5`, `1`, `5`, and `2` in *Data and Editing Barcodes* in sequence.
3. Scan the "Save" Parameter Barcode.

Example 1.3: Clear the custom prefix for QR Code

When configuring custom prefixes/suffixes, saving the barcode type characters without adding other characters clears the custom prefix/suffix for that barcode type.

1. Scan the "Custom Prefix" Parameter Barcode.
2. Scan `5` and `1` in *Data and Editing Barcodes* in sequence.
3. Scan the "Save" Parameter Barcode.

Note

If a prefix was previously configured for all barcodes, the QR Code prefix will revert to that all-barcode prefix after configuration.

To clear prefixes and suffixes configured for various barcode types, scan the Clear All Custom Prefixes and Clear All Custom Suffixes Parameter Barcodes.

Barcode Length Limit Configuration Examples

Important

When configuring the minimum barcode length, the configured minimum value must not be greater than the current maximum length, otherwise an error is prompted. Likewise, when configuring the maximum barcode length, the configured maximum value must not be less than the current minimum length.

Example 2.1: Set the Code 128 barcode length to 4-12 digits

1. Scan the "Code 128 Minimum Length Limit" Parameter Barcode.
2. Scan `4` in *Data and Editing Barcodes* in sequence.
3. Scan the "Save" Parameter Barcode.
4. Scan the "Code 128 Maximum Length Limit" Parameter Barcode.
5. Scan `1` and `2` in *Data and Editing Barcodes* in sequence.
6. Scan the "Save" Parameter Barcode.

Example 2.2: Set the Interleaved 2 of 5 barcode length to 14 digits

To set the Interleaved 2 of 5 barcode length to 14 digits, you can scan the Quick Parameter Barcode ITF25 14-Digit Length directly, or configure it through the minimum and maximum barcode lengths:

1. Scan the "Interleaved 2 of 5 Minimum Length Limit" Parameter Barcode.
2. Scan `1` and `4` in *Data and Editing Barcodes* in sequence.
3. Scan the "Save" Parameter Barcode.

4. Scan the “Interleaved 2 of 5 Maximum Length Limit” Parameter Barcode.
5. Scan `1` and `4` in *Data and Editing Barcodes* in sequence.
6. Scan the “Save” Parameter Barcode.

Example 2.3: Set the Code 39 barcode length to any supported length

1. Scan the “Code 39 Minimum Length Limit” Parameter Barcode.
2. Scan `0` in *Data and Editing Barcodes* in sequence.
3. Scan the “Save” Parameter Barcode.
4. Scan the “Code 39 Maximum Length Limit” Parameter Barcode.
5. Scan `0` in *Data and Editing Barcodes* in sequence.
6. Scan the “Save” Parameter Barcode.

USB Keyboard Output Speed Configuration Example

If the host performance is weak and transmission errors are likely to occur, customize the USB keyboard output speed to a slower value, such as 50 ms:

1. Scan the “Custom Output Speed” Parameter Barcode.
2. Scan `5` and `0` in *Data and Editing Barcodes* in sequence.
3. Scan the “Save” Parameter Barcode.

Custom Decode Beep Frequency

Set the decode beep frequency to 2K:

1. Scan the “Custom Decode Beep Frequency” Parameter Barcode. The Barcode Reader will emit two beep tones.
2. Scan `2`, `0`, `0`, and `0` in *Data and Editing Barcodes* in sequence.
3. Scan the “Save” Parameter Barcode.

Warning Beep

When data transmission is abnormal, the Barcode Reader emits four consecutive warning beeps. If this occurs, check whether the connection cable is normal.

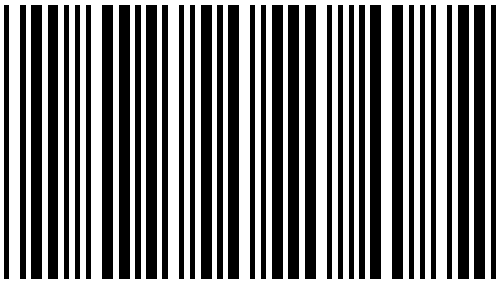
Tip

The following methods can help improve decoding success. For best results, aim the Barcode Reader beam at the center of the barcode, although the barcode can be read from any orientation.

Hold the Barcode Reader in front of the barcode, press the button, and aim the targeting beam at the center of the barcode.

The closer the Barcode Reader is to the barcode, the smaller the aiming beam becomes; the farther away it is, the larger the beam becomes. For small barcodes, hold the Barcode Reader closer. For larger barcodes, move the Barcode Reader slightly farther away for easier decoding.

If the barcode has high reflectivity (for example, a coated surface), you may need to tilt the Barcode Reader at a certain angle to scan it successfully.



Safety

Safety

Safety Notice

Warning

The illumination light is bright during Barcode Reader operation. Do not stare directly into it or point it at the eyes to avoid discomfort or injury.