
HS7 User Manual

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1 System Settings

1.1 Input/output settings

Introduction

This chapter mainly introduces the configuration of the buzzer and LED when the code reading device is powered on, decoded, and button triggered.

Power on beeper setting

Power-on prompt sound, that is, after the code reading device is successfully powered on, it can sound a buzzer to prompt it to enter the working state. According to the needs of the scene, it can also be configured to have no prompt sound. Default value = there will be a prompt sound when power on successfully.



No beep after successful power-on



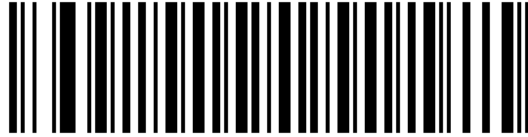
* There will be a beeper after successful power-on.

Trigger decoding sound settings

After triggering the decoding switch, regardless of whether it is decoded or not, the code reading device can emit a tone to indicate that the switch has been triggered. Default value = no beep when triggering decoding switch



* No beep when triggering decoding switch



There is a sound when triggering the decoding switch.

Setting the beeper after successful decoding

Decoding success beeper response setting

After the decoding is successful, the buzzer will sound to indicate that the decoding is successful. If a prompt sound is not required, it can be configured to have no prompt sound after the decoding is successful. Default value = prompt sound after successful decoding.



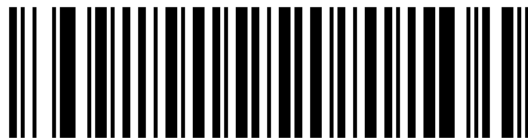
No beep after successful decoding



* There will be a prompt sound after successful decoding.

Decoding success sound volume setting

Scan the following barcode to modify the beep volume of the code reading device after successful decoding. Default = high.



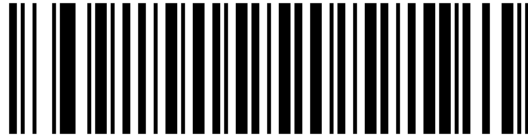
Low



Medium



* High



Disable

Decoding success beeper frequency setting

Scan the following barcode to modify the beep frequency of the code reading device after successful decoding. The default value is medium.



* Medium (2400 Hz)



Low (1600 Hz)



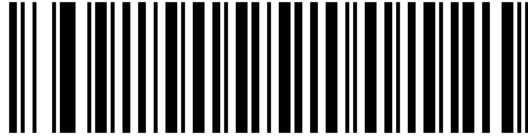
High (4200 Hz)

Decoding success prompt sound duration setting

Scan the following barcode to modify the beep duration of the code reading device after successful decoding. Default=Normal.



*Normal beep



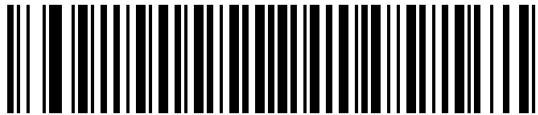
short beep

Decoding failure beeper frequency setting

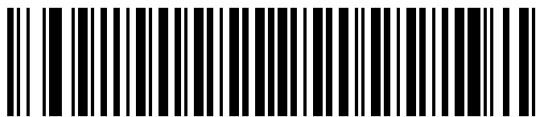
Scan the following barcode to modify the beep frequency of the code reading device after decoding failure. Default=Razz.



* Razz (250 Hz)



Medium (3250 Hz)



High (4200 Hz)

code reading delay

Scan the following barcode to set the time interval between the barcode reading device reading one barcode and then reading the next barcode. Default=750 ms.



No delay



* Short delay (750 ms)



Medium latency (1,000 ms)

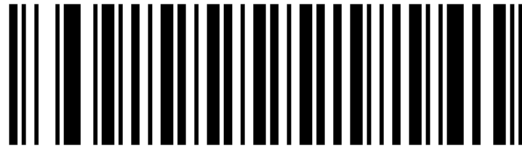


Long delay (1,500 ms)

1.2 Common functions

Factory Default Settings

If you want to apply default settings to your code reading device, scan the “Load Factory Default Settings” barcode below to reset your code reading device to factory default settings.



Load factory default settings

Firmware version display

Scanning the following barcode will output the current firmware version, unit serial number and other product information.



Show version information

2 Interface Settings

2.1 Interface type

Introduction

This chapter introduces the two interface types, USB and RS232, and lists their related configurations.

RS232

To connect to the RS232 interface, you need to scan the “RS232” barcode. The default serial port related configuration is: 115200 baud rate, 8 data bits, no check bit, 1 stop bit, and a carriage return and line feed are added by default.



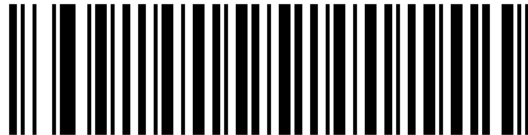
RS232

RS232 baud rate

The baud rate sends data from the code reading device to the host at a specified rate. The host must be set to the same baud rate as the code reading device for normal communication. Default=115200.



300



600



1200



2400



4800



9600



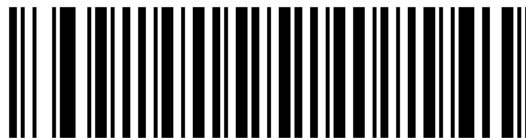
19200



38400



57,600



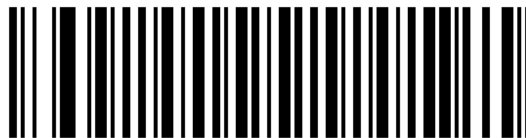
* 115,200

RS232 word length: data bits, stop bits and parity

Data bits: You can choose to transmit 7 or 8 data bits. The host must be set to the same data bits as the code reading device for normal communication. Default=8.

Stop bit: The stop bit can be set to 1 or 2. The host must be set to the same stop bit as the code reading device for normal communication. Default=1.

Parity check: A method of checking the character bit pattern. The host must be set to the same parity bit as the code reading device for normal communication. Default=None.



7 data bits, 1 stop character, even parity bit



7 data bits, 1 stop character, no parity bit



7 data bits, 1 stop character, odd parity bit



7 data bits, 2 stop characters, even parity bits



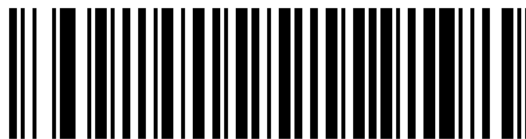
7 data bits, 2 stop characters, no parity



8 data bits, 1 stop character, even parity bit



8 data bits, 1 stop character, odd parity bit



7 data bits, 2 stop characters, odd parity bit



* 8 data bits, 1 stop character, no parity bit

USB

USB PC

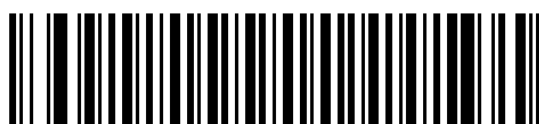
Scan the following barcode to configure the code reading device into USB PC Keyboard mode. Carriage returns and line feeds are added by default.



USB Keyboard (PC)

USB COM

Scan the following barcode to configure the code reading device into USB COM mode, simulating a regular RS232-based COM port. If you are using a Microsoft® Windows® PC, you need to download the driver. If you are using an Apple® Macintosh, the computer will recognize the code reading device as a USB CDC class device.



USB COM

Note

No additional configuration (such as baud rate, etc.) is required.

3 Data Editing

3.1 Introduction

After the code reading device decodes successfully, it will obtain a string of data. This string of data can be numbers, English, symbols, etc., and it can also be Chinese characters for QR codes. This string of data is the data information contained in the barcode. In practical applications, you may not only need the data information of the barcode, but you may also need to know which type of barcode the string of data information obtained comes from, or you need to know on which day the barcode information was scanned, or you may need to automatically wrap the text of the barcode and enter after reading a barcode. These requirements may not be included in the data information of the barcode.

Adding these contents during coding will inevitably increase the length of the barcode data and lack flexibility. Artificially add some content before or after the barcode data information, and these added contents can be changed in real time according to needs, and you can choose to add or block them. This is the suffix of the barcode data information. By adding suffixes and suffixes, the requirements are met without modifying the content of the barcode information.

- You can add or remove prefix or suffix characters for one Symbology or for All Symbologies.
- Use [ASCII Conversion Table](#) to add any prefix or suffix
- Add prefix or suffix characters in the order they appear in the output.

- When configuring a specific code system (or All Symbolologies), add prefix or suffix characters to the code system corresponding to the serial number of the specific barcode type.
- The maximum size of a prefix or suffix configuration is 200 characters.

3.2 Prefix/suffix addition

1. Scan the “Add Prefix” or “Add Suffix” barcode.
2. Determine the symbology to be prefixed or suffixed, determining the 2-digit hexadecimal value from *ID Symbolologies*. For example, for Code 11, the barcode type sequence number is “h” and the Hex ID is 68.
3. Scan 2 hexadecimal digits in *Appendix Charts*, or scan 9, 9 to apply to all barcodes.
4. Determine the hexadecimal value of the prefix/suffix from *ASCII Conversion Table*.
5. Scan *Appendix Charts* for a 2-digit hexadecimal value.
6. Repeat steps 4 and 5 for each prefix/suffix character.
7. To add a barcode serial number, please scan 5, C, 8, 0.

To add AIM I.D., scan 5, C, 8, 1.

To add a backslash (), scan 5, C, 5, C.

Note

To add the backslash () in step 7, 5C must be scanned twice - once to create the leading backslash, and then to create the backslash itself.

8. Scan the “Save” barcode to exit and save, or scan the “Discard” barcode to exit without saving. Repeat steps 1-6 to add prefixes or suffixes to other Symbolologies.



Add Prefix



Add Suffix



Save



give up

i Example

Add suffix to specific Symbology

Add CR (carriage return) suffix to Code 128.

step:

1. Scan the “Add Suffix” barcode.
2. Determine the 2-digit hexadecimal value of Code 128 from *ID Symbologies*: 6A.
3. Scan the “6” , “A” barcodes from *Appendix Charts*.
4. Determine the hexadecimal value of the carriage return suffix from *ASCII Conversion Table*: 0D.
5. Scan the “0” , “D” barcode in *Appendix Charts*.
6. Scan the “Save” barcode, or scan the “Abandon” barcode to exit without saving.



Add Suffix



6



A



0



D



Save

3.3 Add carriage return suffix to All Symbologies

To add a carriage return suffix to all symbologies, please scan the following barcode. This operation first clears all current suffixes, and then adds carriage return suffixes to All Symbologies.



Add carriage return suffix to All Symbologies

3.4 Add newline suffix to all encoding systems

To add a carriage return and line feed suffix to All Symbologies, please scan the following barcode. This operation first clears all current suffixes, and then adds carriage return and line feed suffixes to All Symbologies.



Add newline suffix to all encodings

3.5 Add carriage return and line feed suffix to All Symbologies

To add a carriage return and line feed suffix to All Symbologies, please scan the following barcode. This operation first clears all current suffixes, and then adds carriage return and line feed suffixes to All Symbologies.



Add carriage return and line feed suffix to All Symbologies

3.6 Keyboard operation

You can configure the keyboard to perform different operations when decoding the output, such as performing automatic saving after decoding the output.

1. Determine the 2-digit hexadecimal value corresponding to the keyboard operation to be performed from *Keyboard operation ASCII conversion*, and determine the 2-digit hexadecimal value of the encoding system that needs to be set.
2. First scan the “Add Keyboard Action” barcode.
3. Then determine the order of keyboard operation and barcode output. If the keyboard operation comes first, scan the “Add Prefix” barcode. If the keyboard operation follows, scan the “Add Suffix” barcode.
4. Scan the corresponding 4-digit hexadecimal value in *Appendix Charts* according to the corresponding value (including Symbology and corresponding keyboard operation)
5. Scan the “Save” barcode.
6. Scan “End adding keyboard action”



Start adding keyboard actions



End adding keyboard operation

Example

Add the operation of saving after decoding output for All Symbologies

First confirm the operation to be performed: save after the barcode is output, that is, add a suffix after the output barcode. Then determine the corresponding hexadecimal value according to the table in the appendix. All Symbologies correspond to “9” and “9”, and the saving operation corresponds to “1” and “3”.

After confirmation, scan the “Add Keyboard Operation” barcode, “Add Suffix” barcode, “9”, “9”, “1”, “3”, and finally scan the “Save” barcode.

(“9” and “9” correspond to All Symbologies, and “1” and “3” correspond to decoding and outputting before saving)

3.7 Prefix/suffix clear

Can clear the prefix/suffix of a Symbology. If a prefix/suffix of a Symbology has been added, you can scan “Clear prefix/suffix of a symbology” barcode removes all prefix/suffix characters from this symbology. Scan “Clear all Symbology prefixes/suffixes” to delete all Symbology prefixes/suffixes.

1. Scan the “Clear Prefix of a Symbol” or “Clear the Suffix of a Symbol” barcode.
2. Determine the 2-digit hexadecimal value to clear the prefix/suffix symbology from *ID Symbologies*.
3. Scan the 2-digit hexadecimal value in *Appendix Charts*; for example, scan “9”, the “9” barcode applies to All Symbologies.
4. Scan the “Save” barcode.



Clear the prefix of a Symbology



Clear the suffix of a Symbology



Save

Prefix selection



Add Prefix



Clear all code prefixes



Clear the prefix of a Symbology

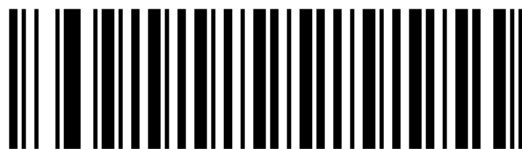
Suffix selection



Add Suffix



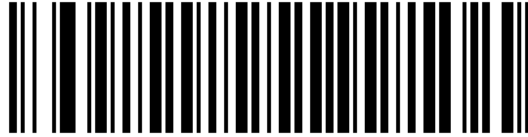
Clear all code suffixes



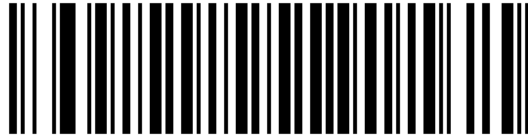
Clear the suffix of a Symbology

3.8 Function code transmission

When function code transmission is enabled and the output data contains function codes, the code reading device will transmit the function code data to the host. Default = disabled.



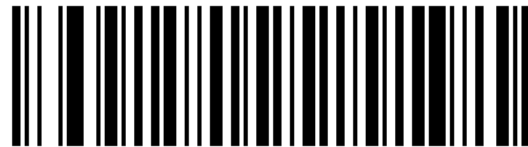
* Disable



Enable

3.9 Delayed transmission of barcode

Delays of up to 5000 ms (in 5 ms increments) can be set for each barcode transmission. Scan the following barcode, then scan [Appendix Charts](#) for the amount of 5 ms delay, then scan the “Save” barcode.



barcode delay

To eliminate barcode transmission delays, scan the “Barcode Delay” barcode and set the delay number to 0. Use [Appendix Charts](#) and scan the “Save” barcode.

i Example

Set a 100 ms delay for transmitting barcodes:

First scan the “Barcode Delay”, then scan [Appendix Charts](#) “2” “0” ($100 \text{ ms} / 5 \text{ ms} = 20$), then scan the “Save” barcode to set the 100 ms transmission barcode delay.

4 Barcode Settings

4.1 Symbology

All Symbologies

If the code reading device needs to read all symbologies, please scan the “All symbologies enabled” barcode. To only read a specific symbology, please scan the “All symbologies disabled” barcode, and then scan the enable barcode for that specific symbology.



All encodings enabled



All encodings disabled

Note

After scanning the “All symbologies enabled” barcode, 2D postal codes are not enabled by default. 2D postal codes must be enabled separately.

Reading length description

The effective reading length of certain Symbologies can be set. If the length of the barcode data read does not match the effective reading length, the code reading device will issue an error tone. Setting the minimum and maximum length to the same value will force the barcode reading device to read fixed-length barcodes. This helps reduce misreadings.

Example

Only barcodes with a length of 6-10 characters are read.

Minimum length=06. Maximum length=10

1. Select the Symbology for which you want to set the maximum and minimum reading length, scan the “Minimum Reading Length” barcode under its directory, scan the number “6” barcode and the “Save” barcode from [Appendix Charts](#).
2. Scan the “Maximum read length” barcode, scan the digits “1”, “0” and “Save” barcodes from [Appendix Charts](#).

The above steps will set the maximum reading length of the selected Symbology to 10 and the minimum reading length to 6.

1D Symbologies

If the code reading device needs to read all 1D barcodes, please scan the “All 1D barcodes enabled” barcode. Only certain Symbologies can be read, please scan the “All 1D Symbologies disabled” barcode.



* All 1D symbologies enabled



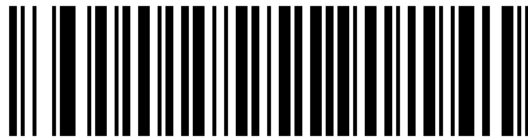
All one-dimensional Symbologies disabled

2D Symbologies

If the code reading device needs to read all barcode systems, please scan the “All QR Symbologies enabled” barcode. Only certain Symbologies can be read, please scan the “All QR Symbologies Disabled” barcode.



* All QR Symbologies enabled

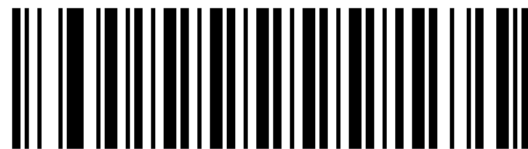


All QR codes are disabled

Codabar

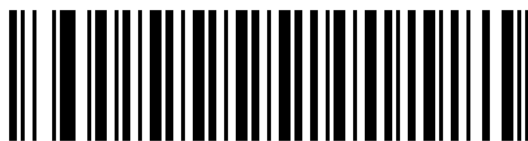
Note

Default all Codabar settings



Restore Codabar default settings

Enable/disable



* Enable



Disable

start/stop characters

“Start/Stop” character output is located at the leading and trailing ends of the barcode. Configurable to transmit or not transmit Start/Stop characters. Default = no transmission.



transmission



* Do not transmit

Check character

No check characters means that the barcode reading device will read and transmit all barcodes with or without check characters. (When scanning a barcode with check characters at this time, the check characters are transmitted together)

When “Check Character” is set to “Enable, do not transmit check characters”, the code reading device will verify based on the last digit of the barcode. If the verification passes, normal data except the last check character will be transmitted. If the verification fails, the barcode content will not be sent.

When “Check Character” is set to “Enable, transmit check character”, the code reading device will verify based on the last digit of the barcode. If the verification passes, the check character will be transmitted together with the last digit of normal data. If the verification fails, the barcode content will not be sent.



* No check character



Enable, do not transmit check characters



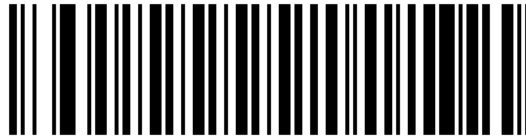
Enable, transmit check characters

cascade

Codabar supports barcode concatenation. When cascading is enabled, the barcode reading device looks for a Codabar barcode with a “D” start character that is adjacent to a barcode with a “D” stop character. In this case, the two barcodes are concatenated into one, omitting all “D” characters.

A 1 2 3 4 D D 5 6 7 8A

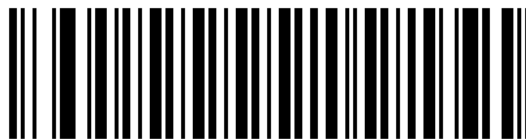
Scan the “Require” barcode to prevent barcode reading devices from decoding a single “D” Codabar barcode without an adjacent “D” starting character for the Codabar barcode. This selection has no effect on Codabar without stop/start D characters.



Enable



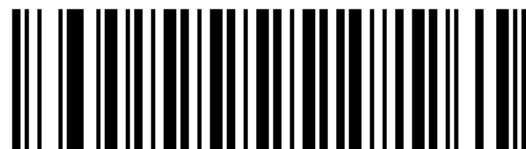
need



* Disable

Reading length

Scan the barcode below to change the reading length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 2-60. Minimum default value=4, maximum default value=60. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

Code 39

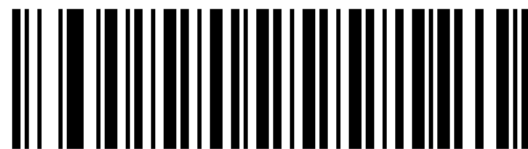
Enable/disable



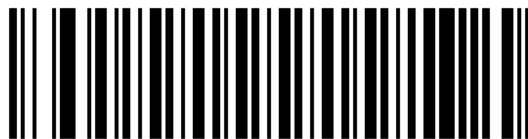
* Enable

Note

Default Code 39 configuration



Restore Code 39 default settings



Disable

start/stop characters

“Start/stop characters” are located at the beginning and end of the barcode. Configurable to transmit or not transmit “start/stop characters” . Default = no transmission.



transmission



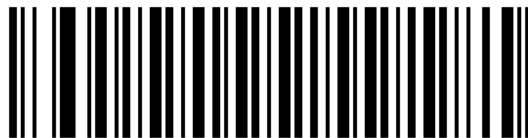
* Do not transmit

Check character

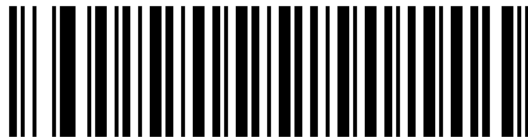
No check characters means that the barcode reading device will read and transmit all barcodes with or without check characters. (When scanning a barcode with check characters at this time, the check characters are transmitted together)

When “Check Character” is set to “Enable, do not transmit check characters”, the code reading device will verify based on the last digit of the barcode. If the verification passes, normal data except the last check character will be transmitted. If the verification fails, the barcode content will not be sent.

When “Check Character” is set to “Enable, transmit check character”, the code reading device will verify based on the last digit of the barcode. If the verification passes, the check character will be transmitted together with the last digit of normal data. If the verification fails, the barcode content will not be sent.



* No check character



Enable, do not transmit check characters



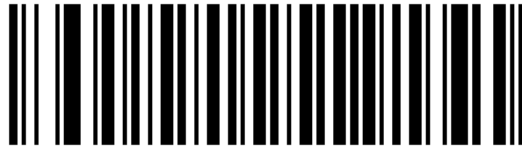
Enable, transmit check characters

Reading length

Scan the barcode below to change the reading length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 0-48. Minimum default value=0, maximum default value=48. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length

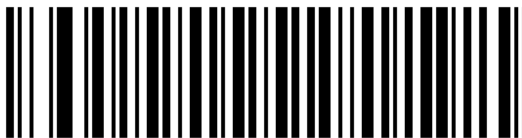


Maximum reading length

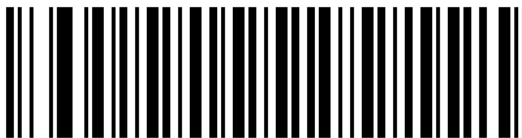
Code 32 Pharmaceutical (PARAF)

Code 32 Pharmaceutical is a form of the Code 39 barcode used in Italian pharmacies. When configuring Code 32, you need to enable Code 39 before configuring it.

This encoding is also called PARAF.



Enable



* Disable

FULL ASCII

If Code 39 Full ASCII decoding is enabled, some characters in the barcode will be decoded into single characters.

Example

\$V will be decoded to the ASCII character SYN and /C will be decoded to the ASCII character #. Default = disabled.

NUL%U	DLE \$P	SP SPACE	0/P	@%V	P P	'%W	p+P
SOH\$A	DC1 \$Q	!/A	1/Q	A A	Q Q	a+A	q+Q
STX\$B	DC2 \$R	"/B	2/R	B B	R R	b+B	r+R
ETX\$C	DC3\$S	# /C	3/S	C C	S S	c+C	s+S
EOT \$D	DC4 \$T	\$ /D	4/T	D D	T T	d+D	t+T
ENQ \$E	NAK \$U	% /E	5/U	E E	U U	e+E	u+U
ACK \$F	SYN\$V	& /F	6/V	F F	V V	f+F	v+V
BEL\$G	ETB \$W	'/G	7/W	G G	W W	g+G	w+W
BS\$H	CAN\$X	(/H	8/X	H H	X	h+H	x+X
HT \$I	EM\$Y	) /I	9/Y	I I	Y Y	i+I	y+Y
LF\$J	SUB\$Z	* /J	:/Z	J J	Z Z	j+J	z+Z
VT\$K	ESC %A	+ /K	; %F	K K	[%K	k+K	{ %P
FF\$L	FS%B	, /L	< %G	L L	\ %L	l+L	%Q
CR\$M	GS%C	-/M	=%H	M M	] %M	m+M	} %R
SO\$N	RS %D	./N	> %I	N N	^%N	n+N	~%S
SI\$O	US%E	/ /O	?%J	O O	_ %O	o +O	DEL%T

The character pairs /M and /N are decoded as a minus sign and a period respectively. Character pairs /P to /Y are decoded as 0 to 9.



FULL ASCII enabled



* FULL ASCII disabled

Interleaved 2 of 5

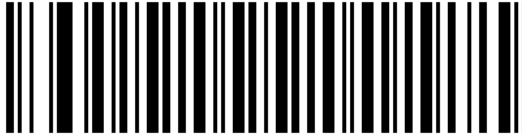
Note

Default all Interleaved 2 of 5 settings

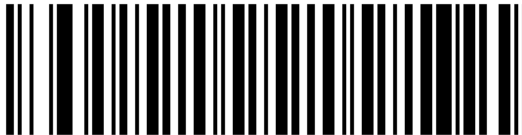


Restore Interleaved 2 of 5 default settings

Enable/disable



* Enable



Disable

Check character

No check characters means that the barcode reading device will read and transmit all barcodes with or without check characters. (When scanning a barcode with check characters at this time, the check characters are transmitted together)

When “Check Character” is set to “Enable, do not transmit check characters”, the code reading device will verify based on the last digit of the barcode. If the verification passes, normal data except the last check character will be transmitted. If the verification fails, the barcode content will not be sent.

When “Check Character” is set to “Enable, transmit check character”, the code reading device will verify based on the last digit of the barcode. If the verification passes, the check character will be transmitted together with the last digit of normal data. If the verification fails, the barcode content will not be sent.



* No check character



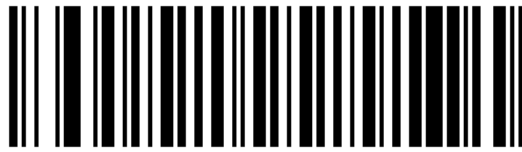
Enable, do not transmit check characters



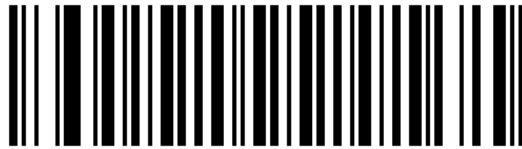
Enable, transmit check characters

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 2-80. Minimum default value=4, maximum default value=80. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

NEC 2of5

Enable/disable

Note

Default all NEC 2 of 5 settings



Restore NEC 2 of 5 default settings



* Enable



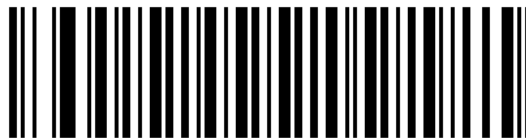
Disable

Check character

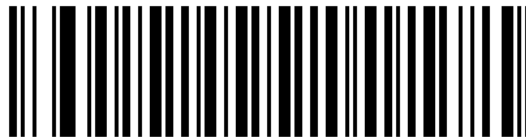
No check characters means that the barcode reading device will read and transmit all barcodes with or without check characters. (When scanning a barcode with check characters at this time, the check characters are transmitted together)

When “Check Character” is set to “Enable, do not transmit check characters”, the code reading device will verify based on the last digit of the barcode. If the verification passes, normal data except the last check character will be transmitted. If the verification fails, the barcode content will not be sent.

When “Check Character” is set to “Enable, transmit check character”, the code reading device will verify based on the last digit of the barcode. If the verification passes, the check character will be transmitted together with the last digit of normal data. If the verification fails, the barcode content will not be sent.



* No check character



Enable, do not transmit check characters



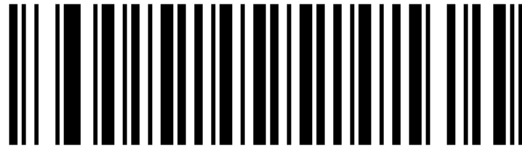
Enable, transmit check characters

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 2-80. Minimum default value=4, maximum default value=80. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length

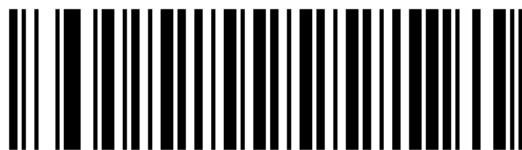


Maximum reading length

Code 93

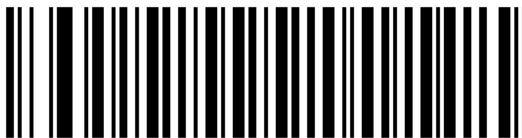
Note

Default all Code 93 settings

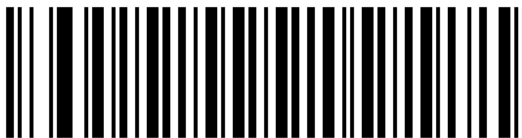


Restore Code 93 default settings

Enable/disable



* Enable



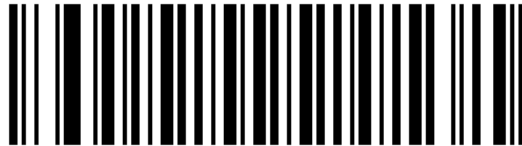
Disable

Reading length

Scan the barcode to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 0-80. Minimum default value=0, maximum default value=80. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length

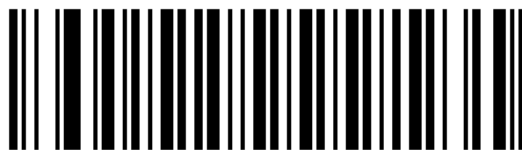


Maximum reading length

Straight 2 of 5 Industrial (three-bar start/stop)

Note

Restore Straight 2 of 5 Industrial default settings



Restore Straight 2 of 5 Industrial default settings

Enable/disable



Enable



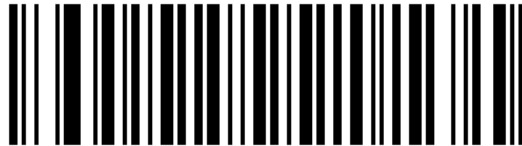
* Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 1-48. Minimum default value=4, maximum default value=48. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length

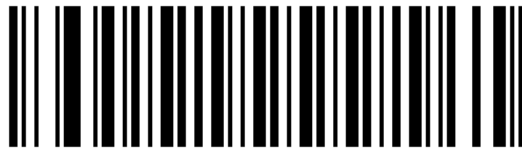


Maximum reading length

Straight 2 of 5 IATA (two-bar start/stop)

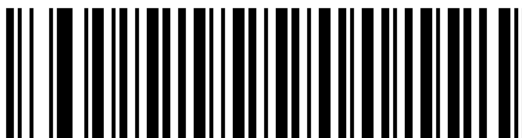
Note

Restore Straight 2 of 5 IATA default settings

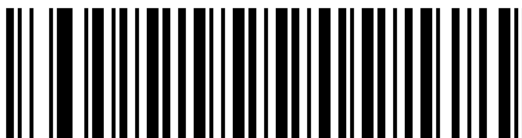


Restore Straight 2 of 5 IATA default settings

Enable/disable



Enable



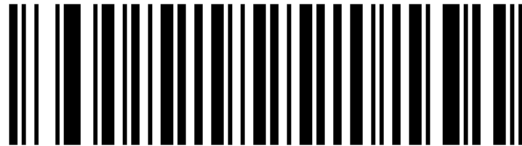
* Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 1-48. Minimum default value=4, maximum default value=48. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length

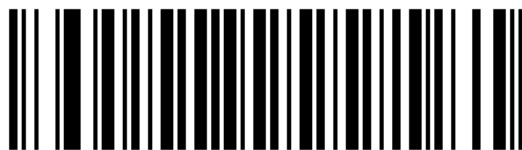


Maximum reading length

Matrix 2 of 5

Note

Defaults to all Matrix 2 of 5 settings



Restore Matrix 2 of 5 default settings

Enable/disable



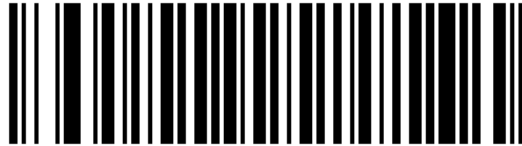
Enable



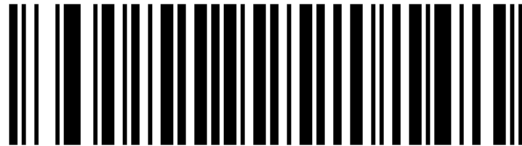
* Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 1-80. Minimum default value=4, maximum default value=80. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



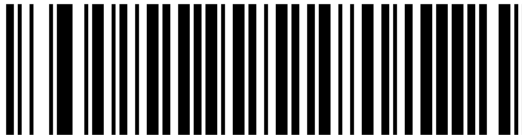
Minimum reading length



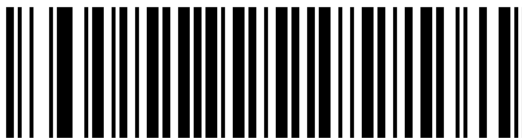
Maximum reading length

Check

This option sets the enabling and disabling of the Matrix 2 of 5 code verification function.



Enable verification



* Disable validation

Code 11

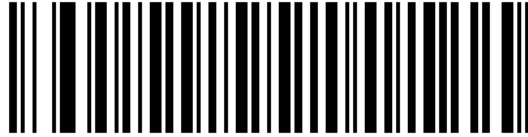
Note

Default all settings

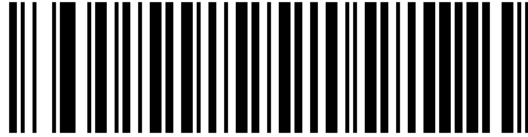


Restore Code 11 default settings

Enable/disable



Enable



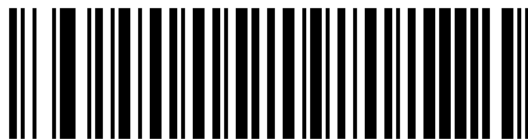
* Disable

Check Digit

This option sets 1 or 2 check digits for Code 11 barcodes. Default = two check digits.



a check digit



* Two check digits

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 1-80. Minimum default value=4, maximum default value=80. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

Code 128

Note

Default all Code 128 settings



Restore Code 128 default settings

Enable/disable



* Enable



Disable

ISBT 128 cascade



ISBT 128 Enable



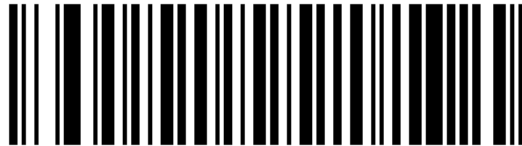
* ISBT 128 disabled

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 0-80. Minimum default value=0, maximum default value=80. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length

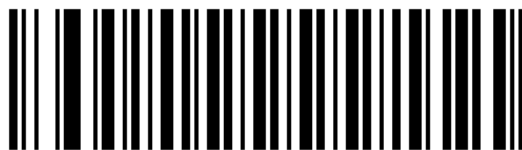


* Maximum reading length

GS1-128

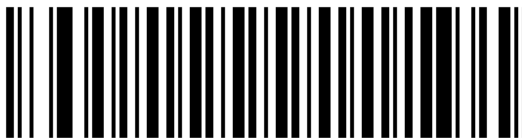
Note

Default all GS1-128 settings

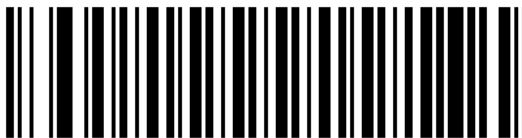


Restore GS1-128 default settings

Enable/disable



* Enable



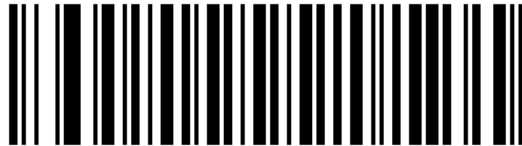
Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 1-80. Minimum default value=1, maximum default value=80. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length

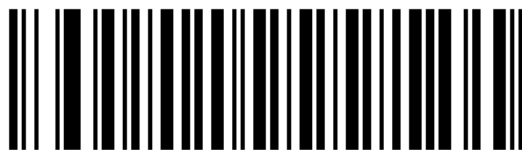


Maximum reading length

UPC-A

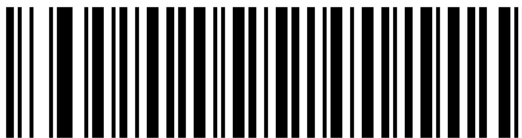
Note

Default all UPC-A settings

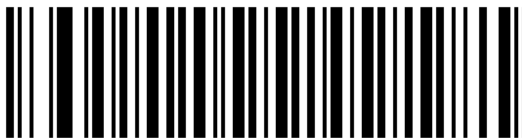


Restore UPC-A default settings

Enable/disable



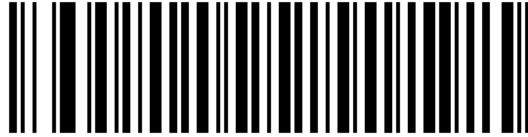
* Enable



Disable

Check Digit

The following configures whether a check digit should be transmitted at the end of the output data. Default = enabled.



* Enable



Disable

digital system

UPC numeric system characters are usually transmitted at the beginning of the output data, default = enabled.



* Enable



Disable

Additional code

This setting adds a two-digit or five-digit additional code to the end of all read UPC-A data.

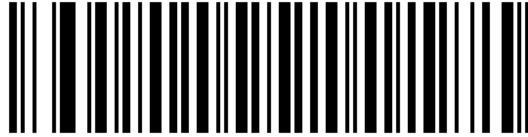
Default=2/5 digit add-on code disabled.



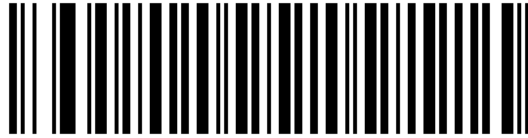
2-digit add-on code enabled



* 2-digit appendix disabled



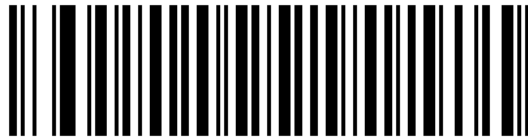
5-digit add-on code enabled



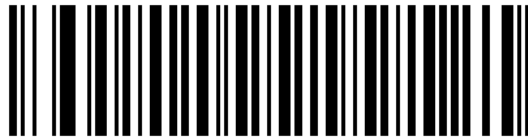
* 5-digit appendix disabled

Required add-on code

When “Required” is scanned, the barcode reading device will only read UPC-A barcodes with the add-on code. Then, you must enable the 2 or 5 digit add-on code. Default=not required.



need



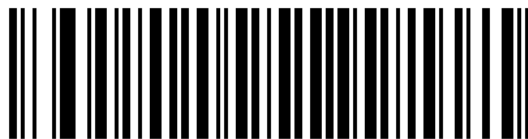
* unnecessary

Additional code separator

When this function is enabled, there will be a space separating the barcode and the additional code. When disabled, no space separation occurs. Default = enabled.



* Enable



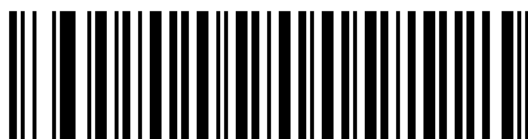
Disable

Note

UPC-A can be converted to EAN-13 with the following setup code



Not turning



change

UPC-E0

Note

Default all UPC-E settings



Restore UPC-E default settings

Enable/disable

Most UPC barcodes start with the 0 digit system. To read these barcodes, scan the “*UPC-E0 Enabled” barcode. If you need to read barcodes using the 1 digit system, please scan “UPC-E1 Enable”. Default=UPC-E0 enabled.



* UPC-E0 enabled



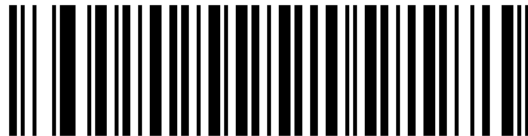
UPC-E0 disabled

barcode extension

UPC-E Expand expands UPC-E barcodes into 12-digit UPC-A format. Default = disabled.



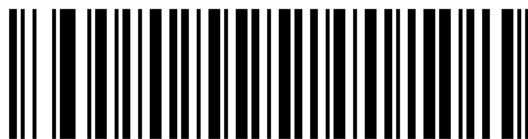
Enable



* Disable

Required add-on code

When “Required” is scanned, the barcode reading device will only read UPC-E barcodes with additional codes. Default = Not required.



need



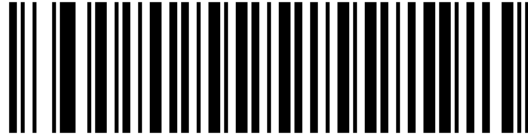
* unnecessary

Additional code separator

When this function is enabled, there will be a space separating the barcode and the additional code. When disabled, no space separation occurs. Default = enabled.



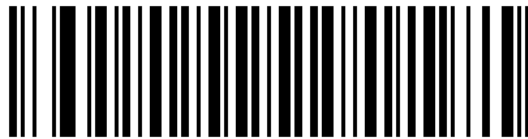
* Enable



Disable

Check Digit

The following configures whether a check digit should be transmitted at the end of the output data. Default = enabled.



* Enable



Disable

digital system

The numeric system characters of UPC are usually transmitted at the beginning of the output data. Default = enabled.



* Enable



Disable

Additional code

This setting adds a 2/5-digit additional code to the end of all read UPC-E data. Default=2/5 digit add-on code disabled.



2-digit add-on code enabled



* 2-digit appendix disabled



5-digit add-on code enabled



* 5-digit appendix disabled

UPC-E1

Most UPC barcodes start with the 0 digit system. To read these barcodes, scan the “*UPC-E0 Enabled” barcode. If you need to read barcodes using the 1 digit system, please scan “UPC-E1 Enable”. Default=UPC-E1 disabled.



UPC-E1 enabled

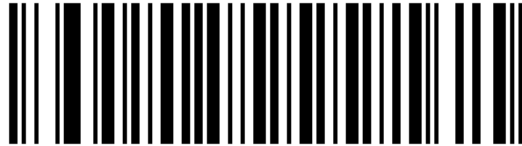


*UPC-E1 disabled

EAN/JAN-13

Note

Default all EAN/JAN settings



Restore EAN/JAN-13 default settings

Enable/disable



* Enable



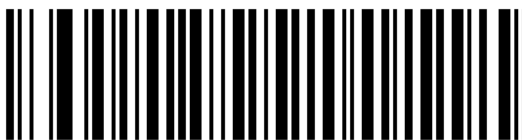
Disable

Note

If you want to convert a UPC-A barcode to EAN-13 format, scan the UPC-A disabled barcode.

Check Digit

The following configures whether a check digit should be transmitted at the end of the output data. Default = enabled.



* Enable



Disable

Additional code

This setting adds a 2/5-digit additional code to the end of all read EAN/JAN-13 data.

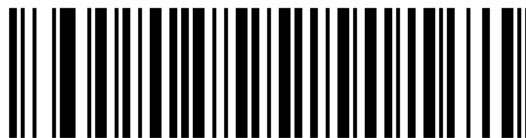
Default=2/5 digit add-on code disabled.



2-digit add-on code enabled



* 2-digit appendix disabled



5-digit add-on code enabled



* 5-digit appendix disabled

Required add-on code

When scanning “Required”, the code reading device will only read EAN/JAN-13 barcodes with additional codes. Default=not required.



need



* unnecessary

Additional code separator

When this function is enabled, there will be a space separating the barcode and the additional code. When disabled, no space separation occurs. Default = enabled.



* Enable



Disable

ISBN Translate

When set to be transmitted in ISBN symbols, EAN-13 Bookland symbols will be converted to the equivalent ISBN symbol format. Default = disabled.



Enable



* Disable

EAN/JAN-8

Note

Default all EAN/JAN-8 settings



Restore EAN/JAN-8 default settings

Enable/disable



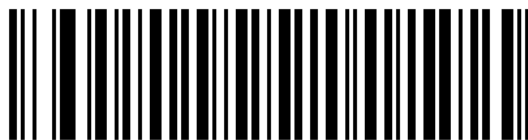
* Enable



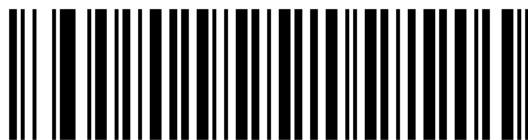
Disable

Check character

The following configures whether a check character should be transmitted at the end of the output data.
Default = enabled.



* Enable



Disable

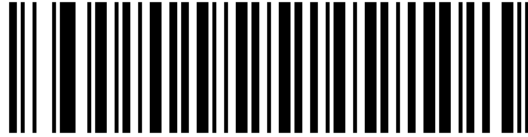
Additional code

This setting adds a 2/5-digit additional code to the end of all read EAN/JAN-13 data.

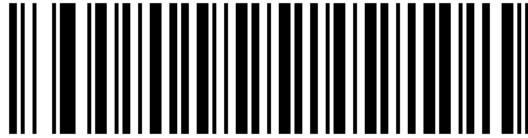
Default=2/5 digit add-on code disabled



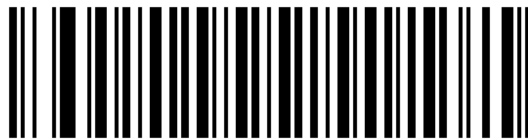
2-digit add-on code enabled



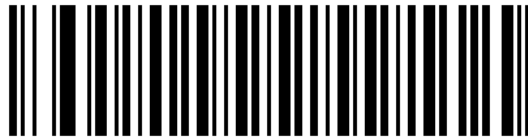
* 2-digit appendix disabled



5-digit add-on code enabled



5-digit add-on code enabled



* 5-digit appendix disabled

Required add-on code

When scanning “Required”, the code reading device will only read EAN/JAN-8 barcodes with additional codes. Default=not required.



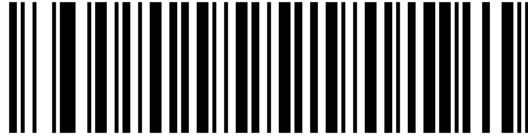
need



* unnecessary

Additional code separator

When this function is enabled, there will be a space separating the barcode and the additional code. When disabled, no space separation occurs. Default = enabled.



* Enable



Disable

MSI

Note

Default all MSI settings



Restore MSI default settings

Enable/disable



Enable



* Disable

Check character

MSI barcodes use different types of check characters. You can configure your barcode reading device to read MSI barcodes using check characters. Default = MOD10 enabled, but no transmission.

When “Check Character” is set to “Enable MOD10 and Transmit” , the barcode reading device will only read and use MSI barcodes printed with the specified type of check characters, and will transmit the characters at the end of the output data.

When “Check Character” is set to “Enable MOD10, but do not transmit”, the device will only read and use MSI barcodes printed with the specified type of check characters, but will not transmit scanned check characters.



* Enable MOD10, but do not transmit



Enable MOD10 and transmit



Disable MSI check characters

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 4-48. Minimum default value=4, maximum default value=48. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

GS1 DataBar Omnidirectional



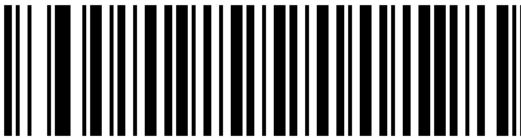
Note

Defaults to all GS1 DataBar Omnidirectional settings

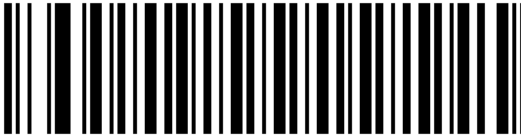


Restore GS1 DataBar Omnidirectional default settings

Enable/disable



* Enable



Disable

GS1 DataBar Limited

Note

Defaults to all GS1 DataBar Limited settings



Restore GS1 DataBar Limited default settings

Enable/disable



* Enable

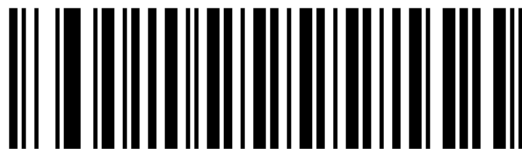


Disable

GS1 DataBar Expanded

Note

Default all settings



Restore GS1 DataBar Expanded default settings

Enable/disable



* Enable



Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 4-74. Minimum default value=4, maximum default value=74. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length

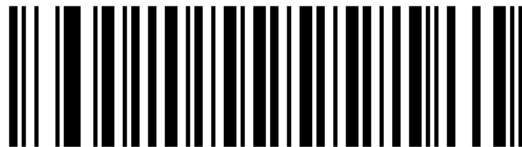


Maximum reading length

PDF417

Note

Default all PDF417 settings



Restore PDF417 default settings

Enable/disable



* Enable



Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 1-2750. Minimum default value=1, maximum default value=2750. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length

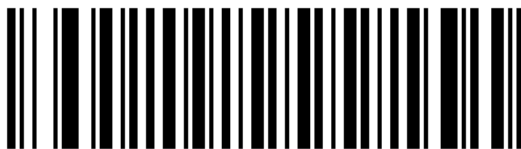


Maximum reading length

QR Code

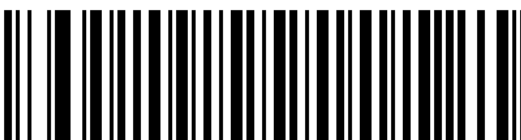
Note

Default all QR Code settings



Restore QR Code and Micro QR Code default settings

Enable/disable



* Enable



Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). The minimum and maximum lengths are 1-7089. Minimum default value=1, maximum default value=7089. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

Data Matrix

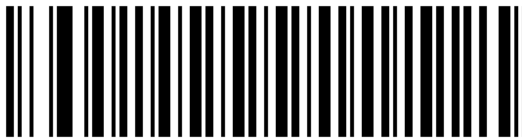
Note

Default all Data Matrix settings



Restore Data Matrix default settings

Enable/disable



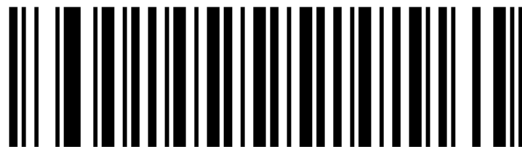
* Enable



Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). The minimum and maximum length are 1-3116. Minimum default value=1, maximum default value=3116. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Maximum reading length

Minimum reading length



Maximum reading length

Aztec Code

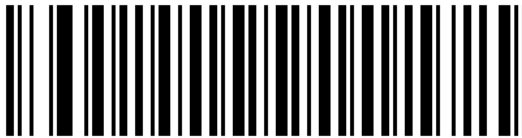
Note

Default all Aztec Code settings



Restore Aztec Code default settings

Enable/disable



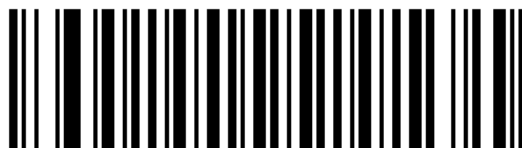
* Enable



Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). The minimum and maximum lengths are 1-3832. Minimum default value=1, maximum default value=3832. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

China Post (Hong Kong 2 of 5)

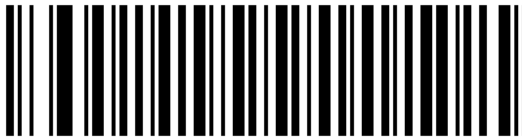
Note

Defaults to all China Post (Hong Kong 2 of 5) settings



Restore China Post default settings

Enable/disable



Enable



* Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 2-80. Minimum default value=4, maximum default value=80. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

Korea Post

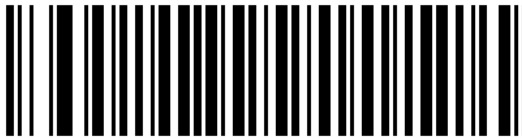
Note

Default all settings



Restore Korea Post default settings

Enable/disable



Enable



* Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 2-80. Minimum default value=4, maximum default value=48. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

Check Digit

Scan the following barcode to determine whether a check digit should be transmitted at the end of the output data. Default = disabled.



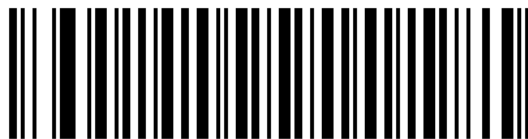
Enable



* Disable

Han Xin Code

Enable/disable



Enable

Note

Default all Han Xin settings



Restore Han Xin Code default settings



* Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 1-1000. Minimum default value=1, maximum default value=1000. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

MaxiCode

Note

Default all MaxiCode settings



Restore MaxiCode default settings

Enable/disable



Enable



Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 1-150. Minimum default value=1, maximum default value=150. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

Micropdf

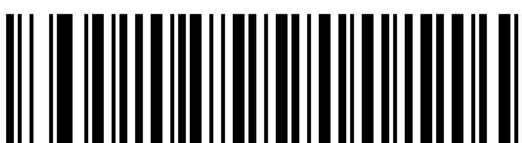
Note

Default all micropdf settings



Restore MicroPDF417 default settings

Enable/disable



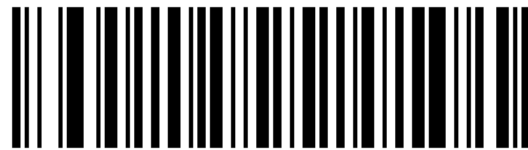
Enable



Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). The minimum and maximum length are 1-366. Minimum default value=1, maximum default value=366. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

GS1 Composite Code

Note

Default settings for all composites



Restore GS1 Composite Code default settings

Enable/disable



Enable



Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). The minimum and maximum lengths are 1-2435. Minimum default value=1, maximum default value=2435. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

Codablock A

Note

Default settings for all composites



Restore Codablock A default settings

Enable/disable



Enable



Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). Minimum and maximum lengths are 1-600. Minimum default value=1, maximum default value=600. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

Codablock F

Note

Default settings for all composites



Restore Codablock F default settings

Enable/disable



Enable



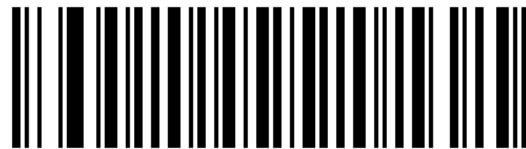
Disable

Reading length

Scan the barcode below to change the read length. For additional information, see [Reading length description](#). The minimum and maximum lengths are 1-2048. Minimum default value=1, maximum default value=2048. (Note: After scanning the “minimum reading length” and “maximum reading length”, you need to scan the specified reading length and save the barcode, please refer to [Reading length description](#))



Minimum reading length



Maximum reading length

5 Appendix

5.1 1D Symbolologies

Symbology	AIM	HS7		
	ID	Possible Modifiers(m)	ID	Hex
All Symbolologies				99
Codabar	]Fm	0-1	a	61
Code 11	]H3		h	68
Code 128	]Cm	0, 1, 2, 4	j	6A
Code 32 Pharmaceutical (PARAF)	]X0		<	3C
Code 39 (supports Full ASCII mode)	]Am	0, 1, 3, 4,5,7	b	62
TCIF Linked Code 39 (TLC39)	]L2		T	54
Code 93 and 93i	]Gm	0-9, A-Z, a-m	i	69
EAN	]Em	0, 1, 3, 4	d	64

continues on next page

Table 1 – continued from previous page

Symbology	AIM	HS7		
EAN-13 (including Bookland EAN)	JE0		d	64
EAN-13 with Add-On	JE3		d	64
EAN-13 with Extended Coupon Code	JE3		d	64
EAN-8	JE4		D	44
EAN-8 with Add-On	JE3		D	44
GS1				
GS1 DataBar	jem	0	y	79
GS1 DataBar Limited	jem		{	7B
GS1 DataBar Expanded	jem		}	7D
GS1-128	JC1		I	49
2 of 5				
China Post (Hong Kong 2 of 5)	JX0		Q	51
Interleaved 2 of 5	JIm	0, 1, 3	e	65
Matrix 2 of 5	JX0		m	6D
NEC 2 of 5	JX0		Y	59
Straight 2 of 5	JRm	0, 1, 3	f	66
IATA				
Straight 2 of 5 Industrial	JS0		f	66
MSI	JMm	0, 1	g	67
Telepen	JBm		t	74
UPC		0, 1, 2, 3, 8, 9, A, B, C		
UPC-A	JE0		c	63
UPC-A with Add-On	JE3		c	63
UPC-A with Extended Coupon Code	JE3		c	63
UPC-E	JE0		E	45
UPC-E with Add-On	JE3		E	45
UPC-E1	JX0		E	45
Add HS7 Code ID				5C80
Add AIM Code ID				5C81
Add Backslash				5C5C

continues on next page

Table 1 – continued from previous page

Symbology	AIM	HS7
Batch Mode	5	35
Quantity		

5.2 2D Symbologies

Symbology	AIM	HS7		
	ID	Possible Modifiers(m)	ID	Hex
All Symbologies				99
Aztec Code	]zm	0-9, A-C	z	7A
Chinese Sensible Code (Han Xin Code)	]X0		H	48
Codablock A	]O6	0, 1, 4, 5, 6	V	56
Codablock F	]Om	0, 1, 4, 5, 6	q	71
Code 49	]Tm	0, 1, 2, 4	l	6C
Data Matrix	]dm	0-6	w	77
GS1	]em	0-3	y	79
GS1 Composite	]em	0-3	y	79
GS1DataBar Omnidirectional	]em	0-3	y	79
MaxiCode	]Um	0-3	x	78
PDF417	]Lm	0-2	r	72
MicroPDF417	]Lm	0-5	R	52
QR Code	]Qm	0-6	s	73
Micro QR	]Qm		s	73

5.3 Postal Code

Symbology	AIM	HS7		
	ID	Possible Modifiers(m)	ID	Hex
All Symbologies				99
Australian Post	]X0		A	41
British Post	]X0		B	42
Canadian Post	]X0		C	43
China Post	]X0		Q	51
InfoMail	]X0		,	2c
Intelligent Mail Bar Code	]X0		M	4D
Japanese Post	]X0		J	4A
KIX (Netherlands) Post	]X0		K	4B
Korea Post	]X0		?	3F
Planet Code	]X0		L	4C
Postal-4i	]X0		N	4E
Postnet	]X0		P	50

5.4 ASCII Conversion Table

Hexadecimal	decimal	character
00	0	NUL (Null char.)
01	1	SOH (Start of Header)
02	2	STX (Start of Text)
03	3	ETX (End of Text)
04	4	EOT (End of Transmission)
05	5	ENQ (Inquiry)
06	6	ACK (Acknowledgment)
07	7	BEL (Bell)
08	8	BS (Backspace)
09	9	HT (Horizontal Tab)
0a	10	LF (Line Feed)
0b	11	VT (Vertical Tab)
0c	12	FF (Form Feed)
0d	13	CR (Carriage Return)
0e	14	SO (Shift Out)
0f	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)
1a	26	SUB (Substitute)
1b	27	ESC (Escape)
1c	28	FS (File Separator)
1d	29	GS (Group Separator)
1e	30	RS (Request to Send)
1f	31	US (Unit Separator)
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	\$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	((Right / Closing Parenthesis)
29	41	) (Right / Closing Parenthesis)
2a	42	*(Asterisk)
2b	43	+ (Plus)
2c	44	, (Comma)

continues on next page

Table 2 – continued from previous page

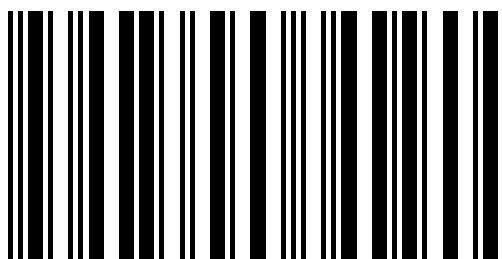
Hexadecimal	decimal	character
2d	45	- (Minus / Dash)
2e	46	. (Dot)
2f	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3a	58	:(Colon)
3b	59	;(Semi-colon)
3c	60	< (Less Than)
3d	61	= (Equal Sign)
3e	62	> (Greater Than)
3f	63	? (Question Mark)
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4a	74	J
4b	75	K
4c	76	L
4d	77	M
4e	78	N
4f	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5a	90	Z
5b	91	[(Left/Opening Bracket)
5c	92	\ (Back Slash)

continues on next page

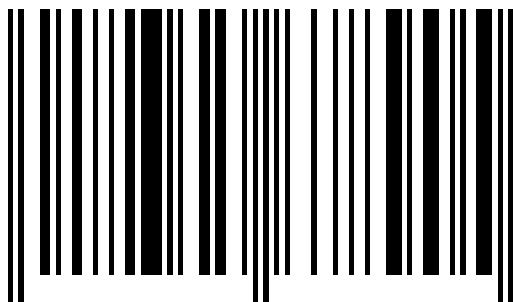
Table 2 – continued from previous page

Hexadecimal	decimal	character
5d	93	] (Right / Closing Bracket)
5e	94	^ (Caret/Circumflex)
5f	95	_ (Underscore)
60	96	` (Grave Accent)
61	97	a
62	98	b
63	99	c
64	100	d
65	101	e
66	102	f
67	103	g
68	104	h
69	105	i
6a	106	j
6b	107	k
6c	108	l
6d	109	m
6e	110	n
6f	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7a	122	z
7b	123	{ (Left/Opening Brace)
7c	124	(Vertical Bar)
7d	125	} (Right/Closing Brace)
7e	126	~ (Tilde)
7f	127	DEL (Delete)

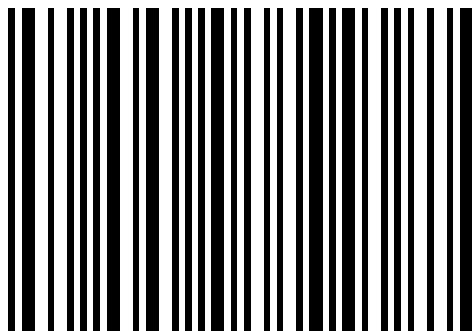
5.5 Barcode example



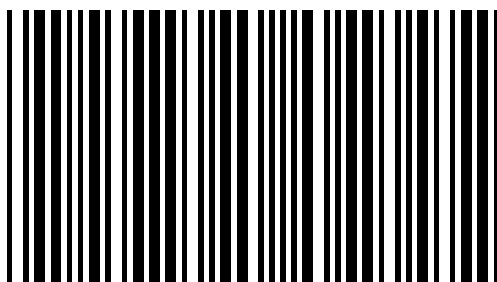
Example content: 1234567890



Example content: 0012345678905



Example content: A13579B



Example content: BC321



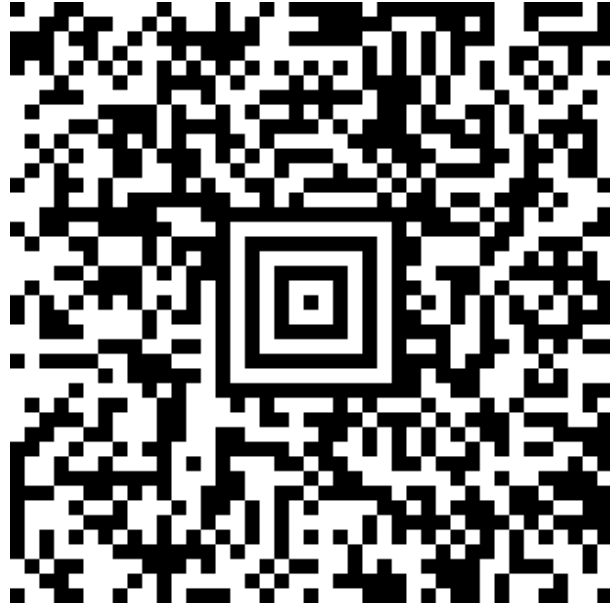
Example content: 9780330290951



Example content: Code 128



Example content: 123456-9\$



Example content: Package #98765-43210<CR><LF>Ship To:<CR><LF>Jane Doe<CR><LF>123 Main
Street<CR><LF>Anywhere, NY 12345<SUB>



Example content: 01234567

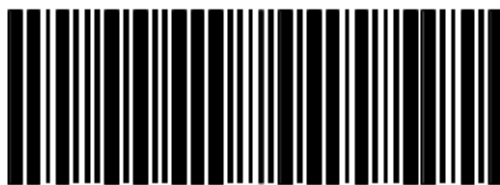
Matrix 2 of 5



6543210

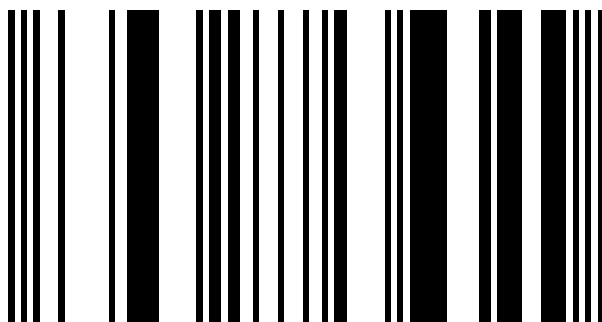
Barcode example picture

Straight 2 of 5 Industrial

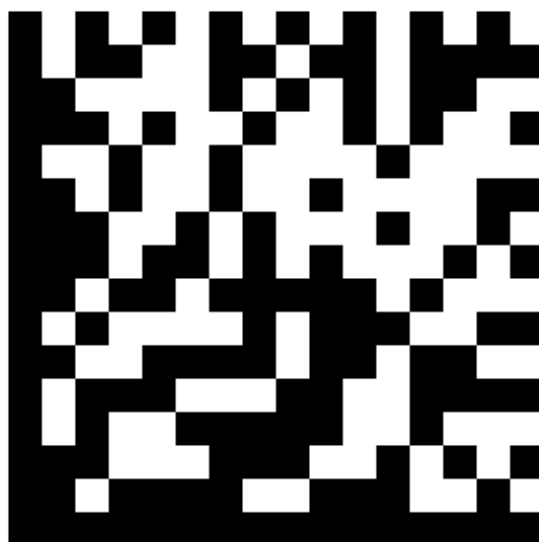


123456

Barcode example picture



Example content: (01) 00123456789012



Example content: Test Symbol

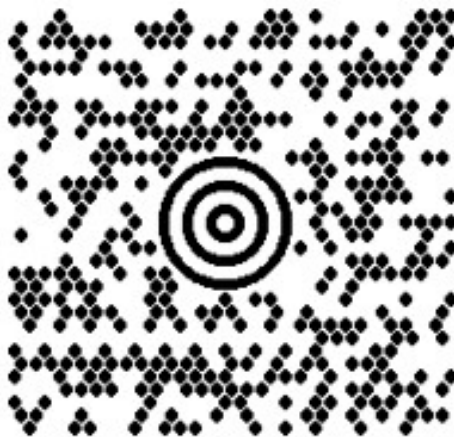
Micro PDF417



Test Message

Barcode example picture

MaxiCode



Test Message

Barcode example picture



Example content: 1998 Chev Blazer<CR>123437486089J672<CR>Reg PAN 123 ABC Dec 1999

5.6 Appendix Charts



0



1



2



3



4



5



6



7



8



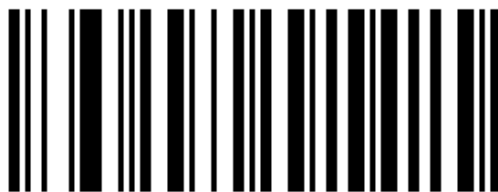
9



A



B



C



D



E



F



Save



give up

Note

If an error occurs while scanning letters or numbers (before scanning the Save barcode), scan the Abandon barcode, rescan the correct letters or numbers, and then scan the Save barcode.

5.7 Keyboard operation ASCII conversion

Hexadecimal	decimal	CTRL+X	Description
00	0	CTRL+@	
01	1	CTRL+A	Select all
02	2	CTRL+B	Bold
03	3	CTRL+C	copy
04	4	CTRL+D	Font format
05	5	CTRL+E	center alignment
06	6	CTRL+F	Find
07	7	CTRL+G	position
08	8	CTRL+H	replace
09	9	CTRL+I	italics
0a	10	CTRL+J	Justify
0b	11	CTRL+K	hyperlink
0c	12	CTRL+L	left aligned
0d	13	CTRL+M	left indent
0e	14	CTRL+N	New
0f	15	CTRL+O	Enable
10	16	CTRL+P	Print
11	17	CTRL+Q	
12	18	CTRL+R	Align right
13	19	CTRL+S	Save
14	20	CTRL+T	First line indent
15	21	CTRL+U	Underline F12
16	22	CTRL+V	Paste F1
17	23	CTRL+W	Write disk closed F2
18	24	CTRL+X	cut F3
19	25	CTRL+Y	repeat F4
1a	26	CTRL+Z	Cancel F5
1b	27	CTRL+[	F6
1c	28	CTRL+\	F7
1d	29	CTRL+]	F8
1e	30	CTRL+^	F9
1f	31	CTRL+-	F10
7f	32	CTRL+	