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# HS7 User Manual

*Release v1.0.0*

2026-06-27

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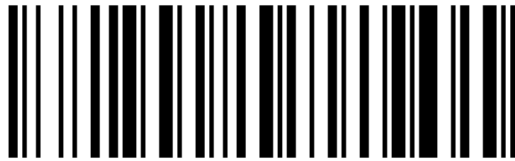
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# 1 System Settings

## 1.1 Read firmware version



Read firmware version

## 1.2 Restore Factory Defaults

### Note

If Write Custom Defaults has been performed, Restore Defaults restores those custom defaults; otherwise it restores factory defaults.

### Important

Set Factory Defaults clears all custom defaults and restores factory defaults.



Restore custom defaults



Write custom default values



Set factory defaults

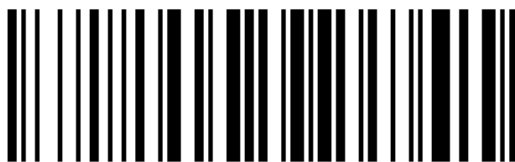
## 1.3 working mode

### Note

During the data upload process, if you scan the “data upload” command again, the current upload will be canceled or stopped.

**Note**

In wireless transmission mode, if automatic storage is turned on, barcodes that fail to be transmitted will be automatically saved, and the stored data can be read through “data upload” .



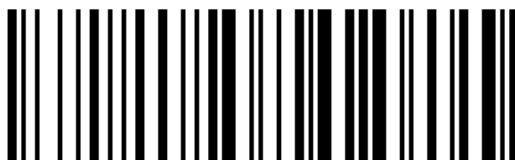
\* Normal mode



storage mode



Upload storage data



Read the total number of stored barcodes



Clear storage data after uploading



Read storage space usage



Clear stored barcode



\* Autosave mode off



Automatic storage mode is on

## 2 Power management

### 2.1 Read sleep time



Read sleep time

### 2.2 Set sleep time



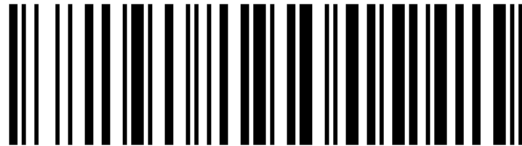
Hibernate now



Sleep after 1 minute



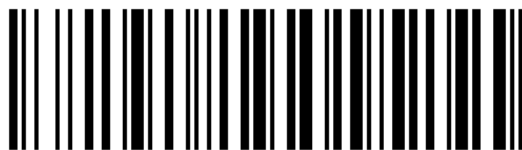
Sleep after 3 minutes (default)



Sleep after 5 minutes



Sleep after 10 minutes



Sleep after 30 minutes



Sleep after 1 hour



Sleep after 2 hours



never sleep

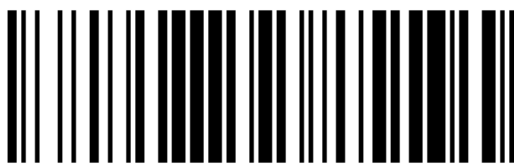
## 2.3 Get scanner battery level



Get battery level

## 3 Feedback Indicators

### 3.1 Buzzer control



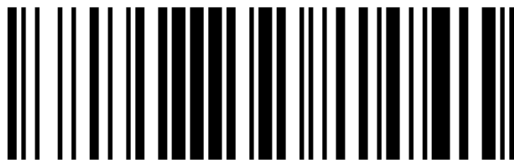
mute



\* high volume



medium volume



low volume

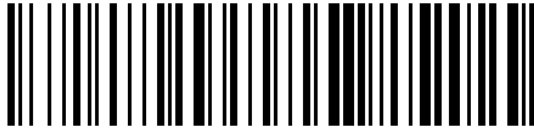


\* high pitch





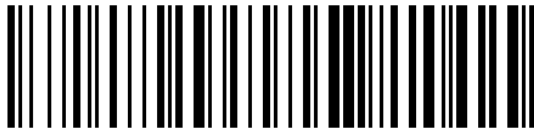
low pitch



\* SDK voice response off



SDK voice response enabled



Base connection buzzer prompt switch

## 3.2 Vibration motor control

### Note

The vibration motor works with a beep prompt, not all models support this feature.



Disable



Enable

### 3.3 Buzzer sound definition

| Type        | Sound                           | Description                                               | Audio file                        |
|-------------|---------------------------------|-----------------------------------------------------------|-----------------------------------|
| Beep        | Single tone (2 pitches)         | Storage mode decode; power-off prompt.                    | storage-mode.m4a, shutdown.m4a    |
| Beep        | Single tone (3 pitches)         | Power-on prompt; setting saved; upload complete.          | startup.m4a, wireless-setting.m4a |
| Beep        | Short single tone               | Successful decode.                                        | one-beeps.m4a                     |
| Beep        | 30-second continuous short tone | 2.4G pairing waits for the receiver; stops after pairing. | pair2.4G.m4a                      |
| Alarm sound | Two tones (same pitch)          | Low-battery alarm during decoding.                        | two-beeps.m4a                     |
| Alarm sound | Three tones (same pitch)        | Inventory storage error or capacity exceeded.             | three-beeps.m4a                   |
| Alarm sound | Transmission failure            | Alarm when barcode transmission fails.                    | No audio available                |
| Alarm sound | Five tones (same pitch)         | Boot failure caused by low battery.                       | five-beeps.m4a                    |

### 3.4 Indicator definition

| Indicator               | Status                                                                                                                                                                                              |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| red light / green light | When charging, the red light is on and the green light is off; when fully charged, the red light is off and the green light is on.                                                                  |
| blue light              | Following the buzzer action, the buzzer lights up when it sounds and goes out when it does not sound; models that support Bluetooth mode are also used to indicate the Bluetooth connection status. |

## 4 wired mode

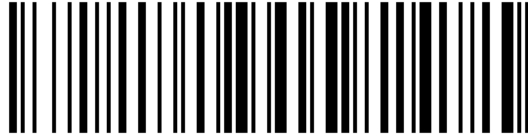
#### Note

Only applicable to scanners that support wired transmission.

### 4.1 USB transfer method



\* USB keyboard mode



USB virtual serial port mode

**Note**

After the automatic interface selection is turned on, the device will automatically switch between wired and wireless; when plugging in the USB cable, the wired mode will be used first. When the USB cable is not plugged in or USB is unavailable, the scanner works in 2.4G mode. Some models may not support this feature.



\* Wired/wireless automatic selection turns on



Wired/wireless automatic selection off

## 4.2 USB keyboard transfer speed

**Note**

This setting also affects the speed of RF and Bluetooth transmission of very long barcodes and stored data uploads.



\* top speed



top speed



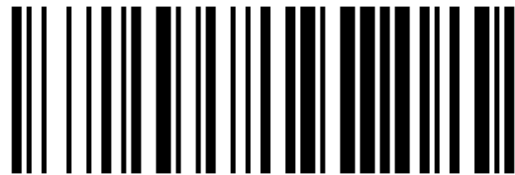
medium speed



medium speed



Read keyboard speed



Read keyboard speed

### 4.3 USB HID multi-key send settings

#### Note

The settings in this section are only applicable to Windows systems.



USB HID multi-key sending enabled



\* USB HID multi-key sending off

## 5 wireless mode

### Note

Only suitable for scanners that support 2.4G transmission.

### 5.1 Read Interface Settings

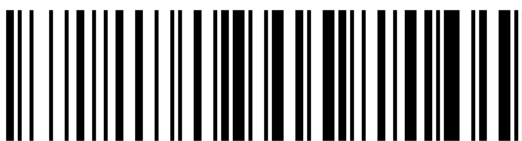


Current Interface Settings

### 5.2 Wireless transmission method

### Note

The blue light is always on or flashing to indicate that it is currently in Bluetooth mode; the blue light is off to indicate that it is currently in 2.4G mode or USB wired mode.



2.4G transmission mode

### 5.3 2.4G pairing

### Important

Only valid in wireless 2.4G mode.



Start 2.4G pairing



one-to-one pairing



One-to-one pairing

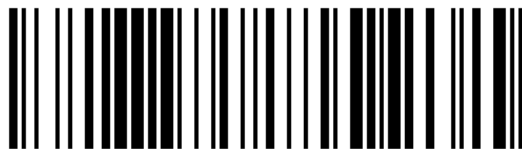
## 5.4 Receiver working mode

### Note

Composite device mode is only available on receivers running FWVerL or later. You can also use `ReceiverAddress.exe` to generate a pairing barcode and complete pairing by scanning it.



Receiver as composite device



Receiver as virtual serial port

### Note

This mode requires the virtual serial port driver to be installed.



receiver as keyboard

## Receiver keyboard transmission speed

### Note

The instructions in this section are only applicable to receivers of FWVerL and above. The transmission speeds of the scanner and receiver must match, otherwise errors may occur when transmitting long barcodes.

### Important

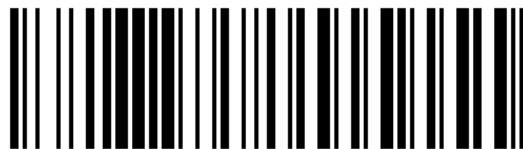
This command is only valid in wireless 2.4G mode and the receiver is connected normally.



Read keyboard speed

### Example

KB SP=2, 4 represents a USB keyboard speed of 2ms and a receiver keyboard speed of 4ms.



receiver keyboard high speed



Receiver Keyboard Medium Speed



Receiver Keyboard Low Speed

### Note

It is only valid in wireless 2.4G mode and the receiving end receives normally.

## 5.5 2.4G transmission cache

### **Note**

This command is only available on some scanners that support this feature. After scanning the setup code, two short beeps indicate disabled, and one three-tone beep indicates enabled.

When scanning ordinary barcodes, if the amount of barcode data is large and the scanning interval is short, and the data is not uploaded in time, you can use this setting barcode to turn on or off data caching.



SRAM cache switch

In normal mode, after data caching is turned on, if the device briefly leaves the communication distance and enters offline state, you can use this setting to choose to wait for connection before uploading the cached data, or to clear the cached data.



Offline caching switch

## 6 Bluetooth Mode

### **Note**

Only suitable for RF+BT scanners with Bluetooth function.

### 6.1 Read Interface Settings



Current Interface Settings

### 6.2 Bluetooth Transmission Mode



**Note**

The blue light is always on or flashing to indicate that it is currently in Bluetooth mode; the blue light is off to indicate that it is currently in 2.4G mode or USB wired mode.



Bluetooth Transmission

## 6.3 Bluetooth Operating Mode

**Note**

Valid only in Bluetooth mode.

**Note**

Before switching the Bluetooth working mode, you need to clear the pairing information between the host device and the scanner.



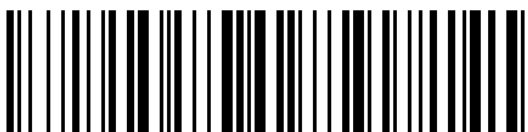
Bluetooth HID Keyboard (Default)



Bluetooth SPP Serial Port



Bluetooth BLE Serial Port



Bluetooth cradle transmission mode

#### Note

It is suitable for pairing with a Bluetooth cradle that has already been paired. When the barcode on the base is damaged, you can also use the gadget BluetoothAddress.exe to generate a pairing barcode.

## 6.4 Change Bluetooth Name

After entering the new Bluetooth name, scan the generated QR code to complete the setup. If the host has saved old pairing records after modification, please delete the old pairing first and search for connection again.

## 6.5 Clear Bluetooth HID Pairing

After scanning “Clear Pairing” in Bluetooth transmission mode, the scanner will disconnect the currently paired device and clear the pairing list, then wait for new devices to be paired. Historically paired devices need to be deleted and paired again.



Clear Bluetooth Pairing

## 6.6 System Keyboard Functions

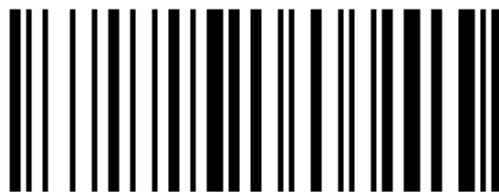
### iOS system pop-up keyboard function



iOS pop up/hide keyboard



Press and hold the trigger for 4 seconds to toggle the iOS on-screen keyboard



Double-press the trigger to toggle the iOS on-screen keyboard



Pop up iOS keyboard switch after sending

## Windows Caps Lock detection

### Note

This command is only available on some Bluetooth scanners. After scanning the setup code, two short beeps indicate disabled, and one three-tone beep indicates enabled.



Windows Caps Lock detection switch

## 6.7 Switch between Bluetooth and 2.4G by pressing and holding for 8 seconds

### Note

This command is only available on some RF+BT scanners (DS, C, RT). When enabled, press and hold the trigger for more than 8 seconds and release it to switch between RF and BT. If you hold it for more than 16 seconds, the scanner powers off and the mode does not switch. After scanning the setup code, two short beeps indicate disabled, and one three-tone beep indicates enabled.



Press and hold the trigger for 8 seconds to toggle RF/BT switching

## 6.8 Bluetooth keyboard transmission speed

### Note

Valid only in Bluetooth mode.



Read Bluetooth HID delay



High speed (2 ms)



High speed (6 ms)



\* Medium speed (10 ms)



Medium speed (18 ms)



Low speed (25 ms)



Low speed (30 ms)

## 6.9 Bluetooth connection status non-sleep setting

### **Note**

After scanning the setup code, two short beeps indicate disabled, and one three-tone beep indicates enabled.



Bluetooth connection status non-sleep switch

## 7 Keyboard Settings

### 7.1 HID Keyboard General Setting

HID common settings

### **Note**

The general HID mode settings in this section are applicable to USB keyboard, RF2.4G keyboard, and BT HID keyboard.

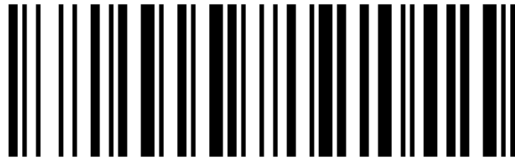
#### Ctrl key combination settings



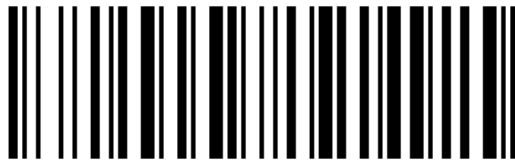
\\* Combine-Key Off



Ctrl+ Key Config1



Alt+ Key Config2



Normal-Key Config3



Ctrl+ Key Config4



Alt+ Key Config5

**Note**

only for ASCII <0x20 chars, Alt+ key only for Windows system.

## Case settings



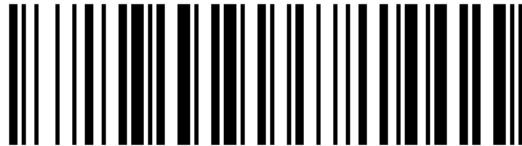
normal



Swap case



all caps



all lowercase

\*When set to ALT, TH keyboard language, the case setting does not apply.

### Num Lock Settings



Num Lock Settings



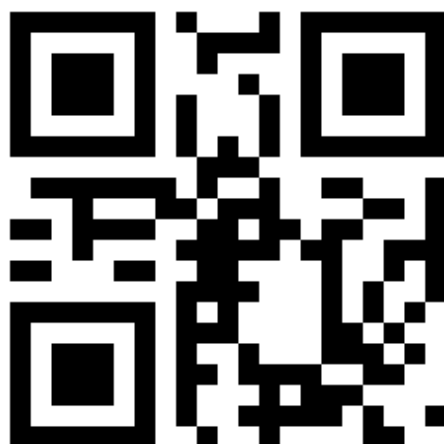
Num Lock on

\*When the receiving device is a mobile phone, you need to keep the Num Lock off setting, otherwise the numbers will not be displayed.

### Enter character set settings

#### Note

Applicable only to certain mod's of 2D scanners, this setting matches the 2D module's output character set.



Read the current character set settings

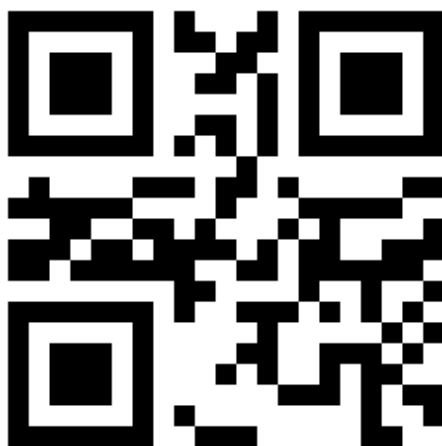


automatic





GBK / BIG5 / HANGUL / SJIS



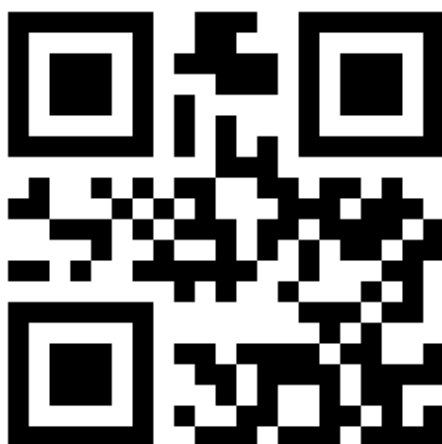
ISO/IEC 8859



UTF8 (Word)



UTF8 (Txt)



Normal mode

illustrate:

| model        | Applicable scenarios                                                                                                        | Code scan engine<br>output character set | limit                                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------|
| Auto         | Automatically select the input character set as UTF8 or ISO/IEC 8859; Word or Txt output is based on the last UTF8 setting. | primitive type                           | none                                                    |
| GBK          | Windows Notepad, Excel Chinese input.                                                                                       | GBK (GB2312) or original type            | Applies to Windows systems only.                        |
| UTF8 (Word)  | Word, QQ Chinese input.                                                                                                     | UTF8 or primitive type                   | Applies to Windows systems only.                        |
| ISO/IEC 8859 | European single-byte special characters ( $\geq C0H$ ), applicable to FR, GE, TR, PT, ES, CS, IT, UK, HU, SK.               | primitive type                           | Languages not listed need to be added by customization. |
| UTF8 (Txt)   | To input special characters in Windows Notepad, you need to install the Unicode plug-in.                                    | UTF8 or primitive type                   | Applies to Windows systems only.                        |
| Normal       | Multi-language special characters, suitable for characters on FR, GE, TR, PT, ES, CS, IT, UK, HU, SK keyboards.             | UTF8 or primitive type                   | Languages not listed need to be added by customization. |

## Receiving device selection

**Note**

This section is used to set the way different receiving devices input ASCII characters (0x20 to 0x7F) and needs to be used in conjunction with [Keyboard Language Settings](#).



Read the current receiving device settings



Windows device



iPhone/iPad/Mac devices



Android device

\*IOS/MAC devices are currently valid: FR, DE, TR, PT, ES, CS, IT, UK, HU, SK. Please refer to the document “MAC iphone ipad keyboard layout for barcode scanner.docx”

\*It is recommended to install Google Gboard input method uniformly on Android devices. Please refer to the document “Android device keyboard layout for barcode scanner.docx”

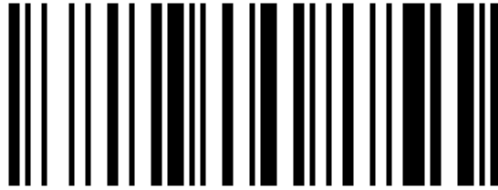
## 7.2 Keyboard language settings

**See also**

Keyboard language settings have been split into a separate page: [Keyboard Language Settings](#).

## 8 Keyboard Language

### 8.1 Read the current keyboard layout



Read the current keyboard layout

**L1 \*ENUSA EN key**



\* US English keyboard

**L2 FR France French key**



French French keyboard

**L3 DE Germany key**



german german keyboard

**L4 IT Italy Italy key**



Italian keyboard

**L5 PT Portugal Portugal key**



Portuguese keyboard

**L6 ES Spain Spain key**



spanish keyboard

**L7 TR Turkey Turkey key**



Turkish Q keyboard



Turkish F keyboard

**L8 ENUK UK key**



British English keyboard

**L9 CS Czech Czech key**



Czech keyboard



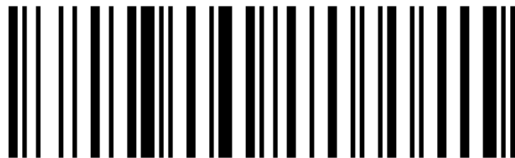
Czech standard keyboard

**L10 HU Hungary Hungary key**



Hungarian keyboard

**L11 FR Belgium (French) Belgium FR Key**



Belgian French keyboard

**L12 PT Brazil (Portuguese) Brazil PT Key**



Brazilian Portuguese keyboard

**L13 FR Canadian French (Traditional) Canadian FR Key**



Canadian French (traditional) keyboard

**L14 HRCroatia Key**



Croatian keyboard

**L15 SK Slovak Key**



Slovak QWERTY keyboard



Slovak keyboard

**L16 DA Denmark Denmark Key**



Danish keyboard

**L17 FI Finland Key**



Finnish keyboard

**L18 ES Latin America (Spanish) Latin-America ES Key**



Latin American Spanish keyboard

**L19 NL Netherlands Netherlands Key**





Dutch keyboard

**L20 NO Norway Norway Key**



Norwegian keyboard

**L21 PL Poland Poland Key**



Polish keyboard

**L22 SR Serbia (Latin) Serbia Key**



Serbian Latin keyboard

**L23 SL Slovenia Key**



Slovenian keyboard

**L24 SV Sweden Sweden Key**



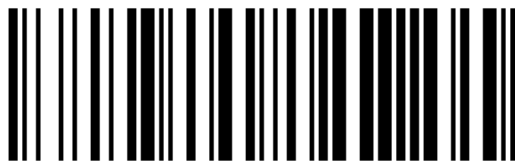
Swedish keyboard

#### **L25 DE Switzerland (German) Swiss DE Key**



Swiss German keyboard

#### **L26 JP Japanese Japanese Key**



Japanese keyboard

#### **L27 TH Thai Thailand Key**

##### **Note**

When using a Thai keyboard, the code scan engine also needs to be set to TH output.



Thai keyboard

##### **See also**

Reference file: RF2.4G, Bluetooth Settings\_Chinese, Thai, Korean.docx.

#### **L28 ALT International Keyboard ALT Global Key**

##### **Note**

The ALT international keyboard layout is only available on Windows systems. It is not affected by the host keyboard layout, but it reduces transmission speed.



ALT international keyboard

## L29 ALT Single Byte Special Keyboard ALT Single Byte Special Key



ALT single-byte special character keyboard

### Note

Languages not listed in this section need to be customized to be supported.

## 9 Data Editing

### 9.1 Standard Data Editing Settings

This section describes how to configure common output rules such as prefixes, suffixes, and hidden characters by scanning setup codes.

#### Prefix/Suffix and Hidden Character Settings

You can add up to 10 prefixes and/or 10 suffixes to the output data. To configure them, scan the two-digit hexadecimal numeric setup codes that correspond to the required ASCII value (that is, two barcodes per character).

#### See also

For character values, please refer to *ASCII Function Key Character Reference Table* and *ASCII Character Reference Table*; for parameters that require input of numerical values, please scan *Numeric Setup Codes*; for specific procedures, see *Add a Prefix or Suffix*.

Can be set to hide the first, middle or last characters of the barcode. After scanning the corresponding hidden setting barcode, scan the two-digit hexadecimal setting barcode corresponding to the length of the characters to be hidden (00~FF, for example, scan 0 and 4 in sequence when hiding 4 characters).

#### See also

See *Steps to Hide the First/Middle/Tail Characters of a Barcode* for the hidden character process.

Operation Code



Add Prefix



Add Suffix



Clear all prefixes



Clear all suffixes



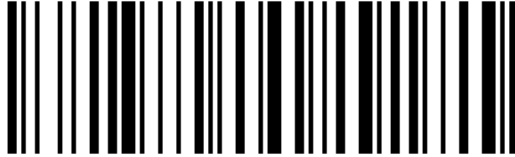
Hide Leading Characters



Hide Middle Section Start Position



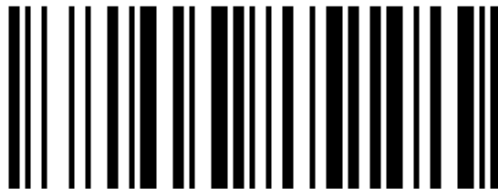
Hide Middle Section Length



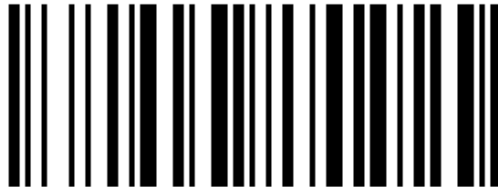
Hide Trailing Characters

## Numeric Setup Codes

For parameters that require a numeric value, scan the corresponding numeric setup codes.



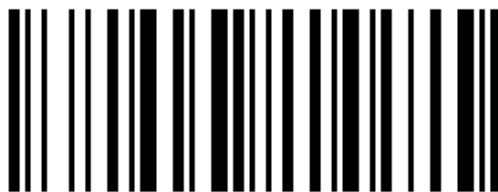
Numeric Setup Code 0



Numeric Setup Code 1



Numeric Setup Code 2



Numeric Setup Code 3



Numeric Setup Code 4



Numeric Setup Code 5



Numeric Setup Code 6



Numeric Setup Code 7



Numeric Setup Code 8



Numeric Setup Code 9



Numeric Setup Code A



Numeric Setup Code B



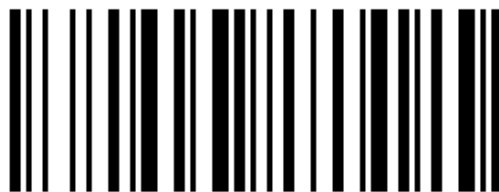
Numeric Setup Code C



Numeric Setup Code D



Numeric Setup Code E



Numeric Setup Code F

## Output Format Settings

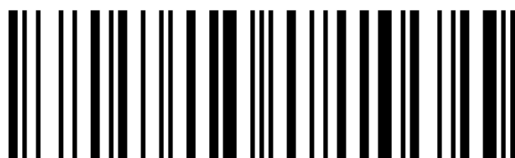
To change the output data format, scan the corresponding setup barcode below.



Default Output Format



Allow Suffix Output



Allow Prefix Output

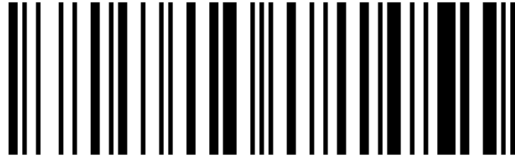


Allow Hiding Leading Data



Allow Hiding Middle Data





Allow Hiding Trailing Data

## Procedure Examples

### Add a Prefix or Suffix

1. If prefix and suffix output has not been enabled, please scan the corresponding output formatting code first.
2. The new characters will be appended to the existing suffixes; if you want to abandon the original suffixes, please scan “Clear all prefixes/suffixes” and then reset them.
3. Scan the “Add Prefix” or “Add Suffix” setting barcode.
4. Determines the hexadecimal value of the prefix or suffix to be entered based on *ASCII Function Key Character Reference Table* or *ASCII Character Reference Table*.
5. Scan the corresponding two-digit hexadecimal setting barcode.
6. To continue adding characters, repeat steps 4 and 5.

#### Example

If you need to add `Ctrl+A` as a prefix, scan “Add Prefix” “9” “7” “4” “1” in sequence.

#### Example

If you need to add `Ctrl+Alt+A` as a suffix, scan “Add suffix” “9” “7” “9” “9” “4” “1” in sequence.

### Steps to Hide the First/Middle/Tail Characters of a Barcode

1. Scan the setting barcode that hides the header, middle starting bit, middle length or trailing characters of the barcode.
2. Determine the hexadecimal value corresponding to the character length to be hidden (for example, hide 4 characters scan 0, 4; hide 12 characters scan 0, C).
3. Scan the corresponding two-digit hexadecimal setting barcode.
4. Enable or disable the hidden character function through the output formatting code.

## 9.2 Extended Data Editing Settings

This section lets you generate data editing setup codes from complete commands in one step. It is intended for batch configuration, remote serial-command delivery, or character replacement.

# Online One-Code Setup Generator

**Note**

The online generator is shown only in the HTML manual. After generating a setup code, scan the generated barcode to complete the setting, or send the command by serial command using the format below.

Add Prefix

Add Suffix

Hide Leading Barcode Characters

Hide Middle Barcode Characters

Hide Trailing Barcode Characters

Character Replacement

One-Code Setup Command Format

Edit format:

\$DATA#ncllxx#

**n**

1 suffix; 2 prefix; 3 hides the tail content of the barcode; 4 hides the middle content of the barcode; 5 hides the first content of the barcode; 7 replaces characters.

**c**

Code ID currently supports only 0, which indicates all symbologies.

**ll**

Length, hexadecimal value: 01~0A, hide 01~FF, replace 01~05.

**xx**

ASCII value. Hexadecimal can be represented by \x plus two characters, and the character range is 0~9, A~F.

Table 1: One-Code Setup Examples

| Command                | Description                                                        |
|------------------------|--------------------------------------------------------------------|
| \$DATA#1005abcd\x03#   | Add 0x05 suffixes: abcd + 0x03.                                    |
| \$DATA#200ANETUM12345# | Add 0x0A prefix NETUM12345.                                        |
| \$DATA#3008#           | Hide the last 0x08 characters of the barcode.                      |
| \$DATA#40050A#         | Hides the 0x0A characters after the 0x05 character in the barcode. |
| \$DATA#5011#           | Hide barcode header 0x11 bytes.                                    |
| \$DATA#7001\x1D02GS#   | Replace GS (0x1D) characters with GS.                              |
| \$DATA#7002NT01Z#      | Replace NT with Z.                                                 |

## Character replacement operation

Format: \$DATA#70 + replaced character length + replaced characters + replacement data length + replacement data #

The sum of the lengths of the replaced characters and the replacement characters is  $\leq 6$ , supporting 1~6 characters being replaced by 5~0 characters.



Read replacement settings



Clear replacement settings

### Example

\$DATA#7001\x1D02GS# means replacing the non-displayable character GS (0x1D) with GS for display.



Character replacement operation: GS to text GS

### Example

\$DATA#7001\x0A01\x0D# means replacing LF (0x0A) with CR (0x0D).



Character replacement operation: LF to CR

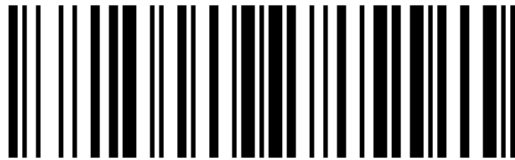
### Example

\$DATA#7006ABCDEF00# means replacing the string ABCDEF with an empty string, that is, not displaying it.

## 9.3 Terminal character settings

**Note**

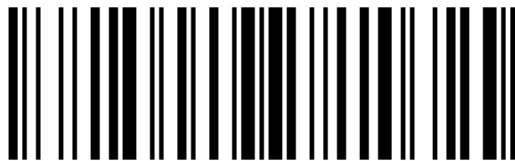
This terminal character is independent of the scan engine suffix and wireless suffix, which facilitates quick setting when the scan engine has no suffix.



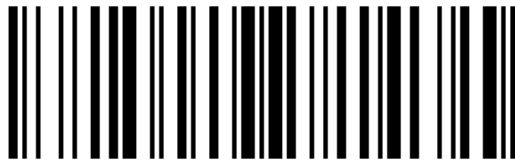
None (Default)



Carriage Return CR



Tab TAB



Carriage Return + Line Feed CRLF



Line Feed LF

## 9.4 GS1 AI field bracket settings

**Note**

Only some AI fields are applicable and require special version support.



Raw Format (Default)



Add Parentheses



Add brackets and separate with CR



Add brackets and separate them with TAB

## 10 Scan Mode

### 10.1 Barcode Decode Mode



Key scan mode (default)



Continuous scan mode

**Note**

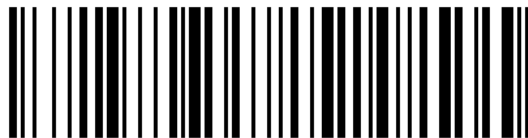
Continuous Scan Mode is suitable for high-volume scanning workflows. Press the Trigger button once to start or stop scanning.



Key pulse scan mode

**Note**

Scanning starts when a key-level change is detected and maintained for about 30 ms. Scanning stops when another key-level change is detected, or when a decode succeeds or times out.



Host trigger mode (only applicable to some customized models)

**Note**

Host trigger mode is only applicable to some customized models.



Batch scanning mode (only applicable to some customized models)

## Decoding timeout

This parameter sets the maximum time that decoding processing lasts during a scan attempt. Default: 3000ms, range: 0500-9999ms.



3 seconds (default)



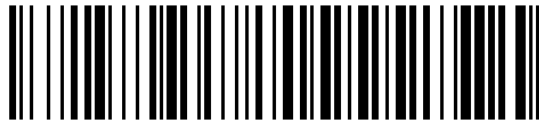
6 seconds

## Scan Interval

The interval between two readings in continuous mode. Default: 500ms, range: 0100-9999ms.



0.5 seconds (default)



1 second

## 11 Module Settings

### 11.1 Engine Output Format

#### Add carriage return suffix to All Symbolologies

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



Add carriage return suffix to All Symbolologies

#### Add newline suffix to all encoding systems

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





Add newline suffix to all encodings

### Add carriage return and line feed suffix to All Symbolologies

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



Add carriage return and line feed suffix to All Symbolologies

## 11.2 Barcode Settings

### Symbology

#### All Symbolologies

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 code systems 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 code system 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 code system to 10 and the minimum reading length to 6.

## One-dimensional coding system

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



\* All 1D symbologies enabled



All one-dimensional code systems disabled

## QR code system

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



\* All QR code systems 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

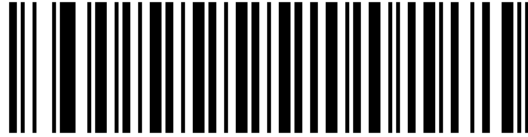
Codabar supports barcode concatenation. When cascading is enabled, the barcode reading device looks for a Codabar barcode with a “D” start character that is adjacent to a barcode with a “D” stop character. In this case, the two barcodes are concatenated into one, omitting all “D” characters.

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

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



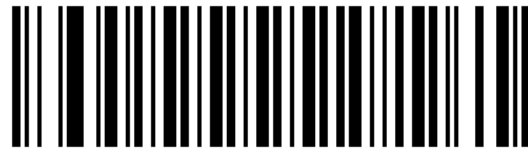
need



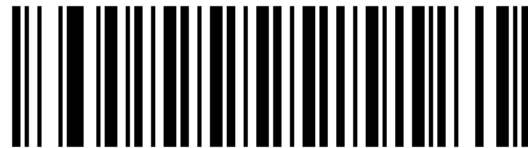
\* Disable

## 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



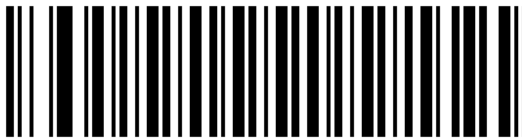
Disable

### 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

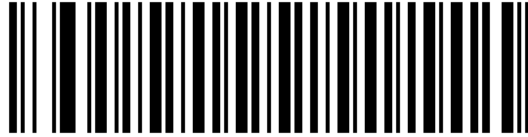
No check characters means that the barcode reading device will read and transmit all barcodes with or without check characters. (When scanning a barcode with check characters at this time, the check characters are transmitted together)

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.

### **i** 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



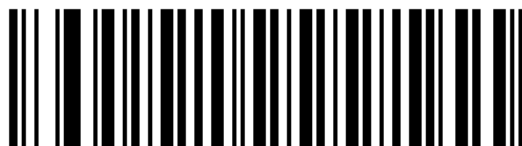
\* FULL ASCII disabled



## 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

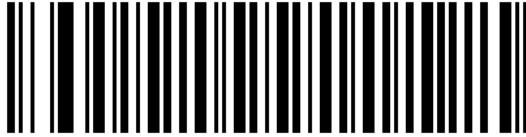
No check characters means that the barcode reading device will read and transmit all barcodes with or without check characters. (When scanning a barcode with check characters at this time, the check characters are transmitted together)

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.

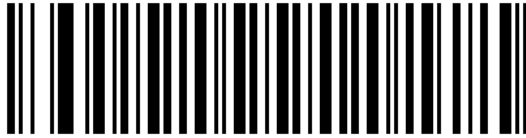
When “Check Character” is set to “Enable, transmit check character”, the code reading device will verify based on the last digit of the barcode. If the verification passes, the check character will be transmitted together with the last digit of normal data. If the verification fails, the barcode content 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



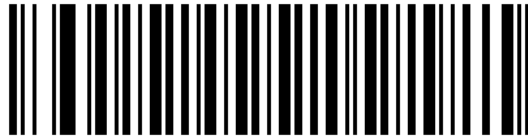
Disable

## Check character

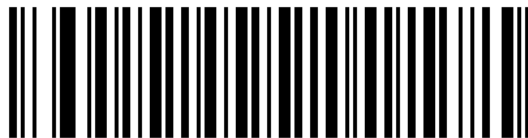
No check characters means that the barcode reading device will read and transmit all barcodes with or without check characters. (When scanning a barcode with check characters at this time, the check characters are transmitted together)

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

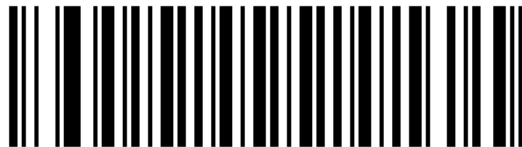
## Reading length

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

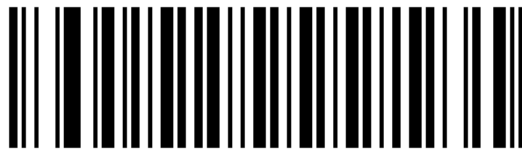


Maximum reading length

## 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



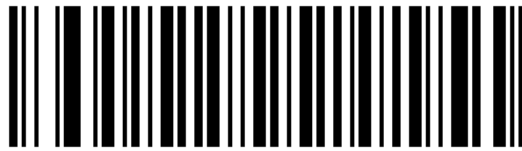
Enable



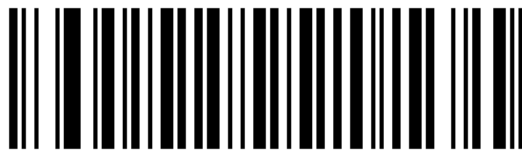
\* Disable

## 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

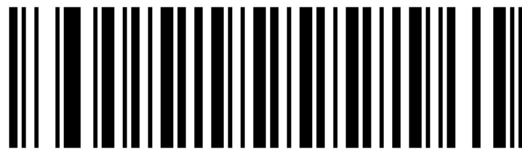


Maximum reading length

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

### Note

Restore Straight 2 of 5 IATA default settings

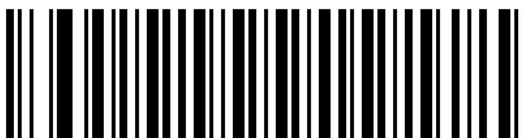


Restore Straight 2 of 5 IATA default settings

## 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



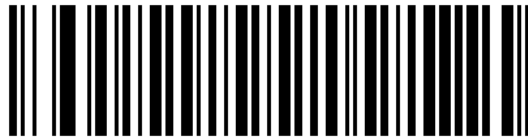
Restore Code 11 default settings



## 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



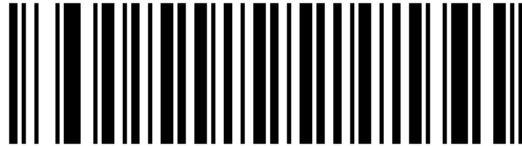
\* Two check digits

## 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

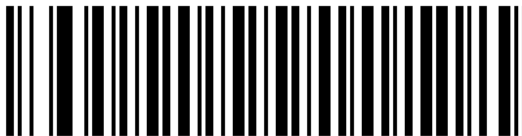
### Note

Default all Code 128 settings



Restore Code 128 default settings

## Enable/disable



\* Enable



Disable

## ISBT 128 cascade



ISBT 128 Enable



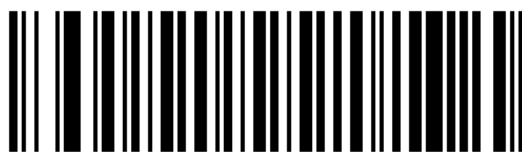
\* ISBT 128 disabled

## 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



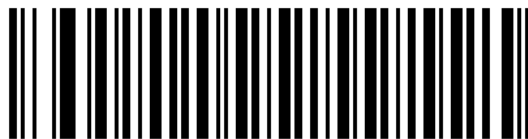
Disable

## Check Digit

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



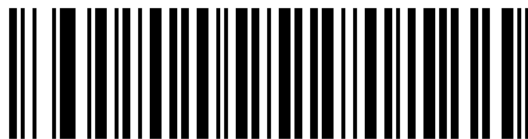
\* Enable



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.

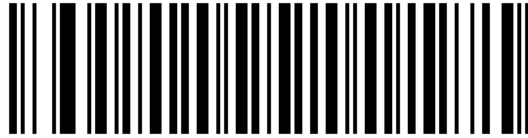
Default=2/5 digit add-on code disabled.



2-digit add-on code enabled



\* 2-digit appendix disabled



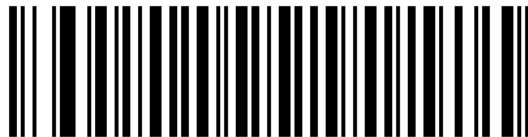
5-digit add-on code enabled



\* 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

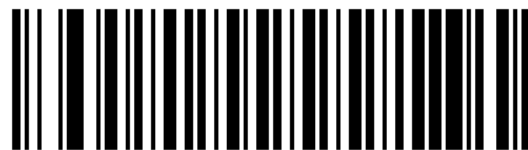


change

## UPC-E0

**Note**

Default all UPC-E settings



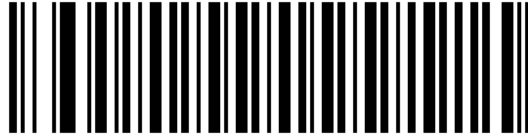
Restore UPC-E default settings

## 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.



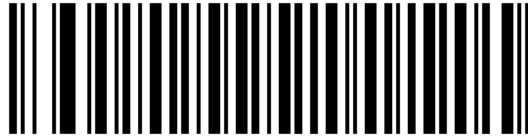
\* UPC-E0 enabled



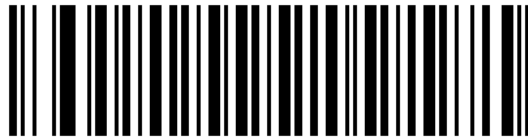
UPC-E0 disabled

### 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

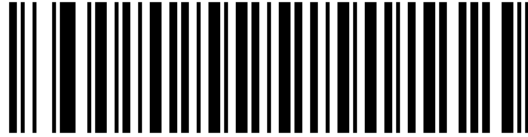


\* unnecessary

### 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.



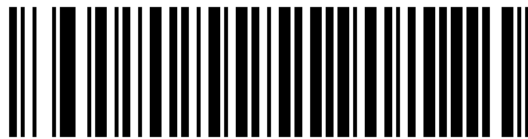
\* Enable



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.



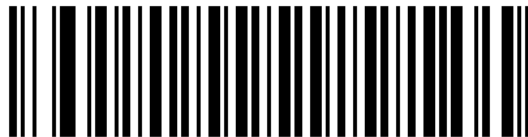
2-digit add-on code enabled



\* 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

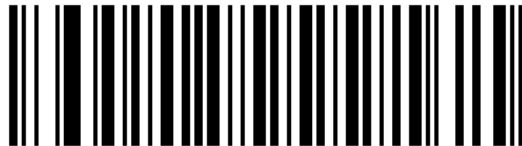


\*UPC-E1 disabled

## EAN/JAN-13

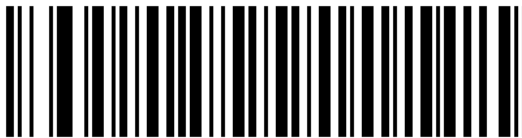
### Note

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.

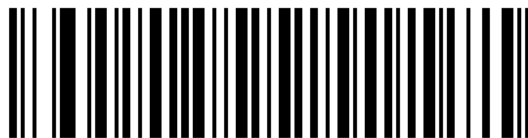
Default=2/5 digit add-on code disabled.



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



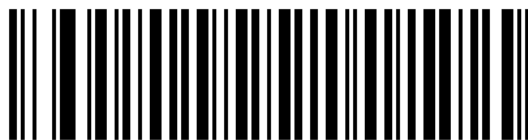
\* Enable



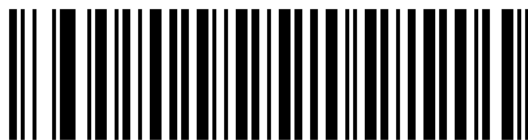
Disable

## Check character

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



\* Enable



Disable

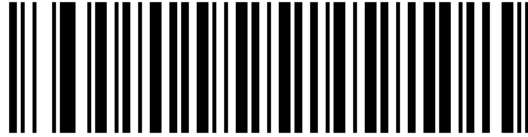
## Additional code

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

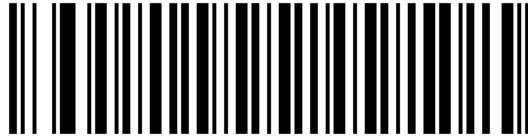
Default=2/5 digit add-on code disabled



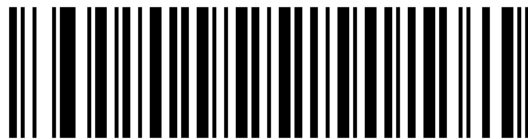
2-digit add-on code enabled



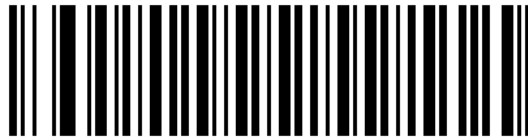
\* 2-digit appendix disabled



5-digit add-on code enabled



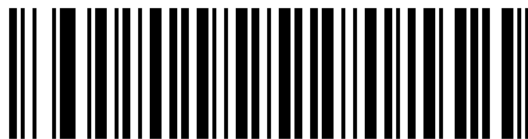
5-digit add-on code enabled



\* 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.



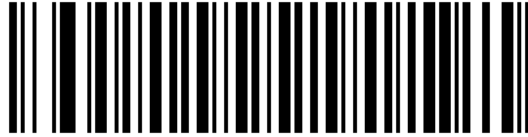
need



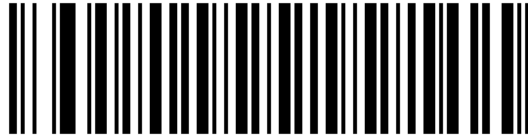
\* unnecessary

### 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

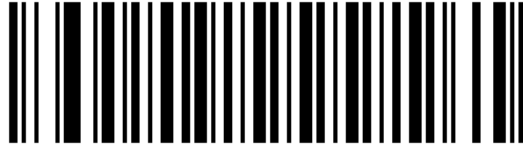


Maximum reading length

## GS1 DataBar Omnidirectional

**Note**

Defaults to all GS1 DataBar Omnidirectional settings

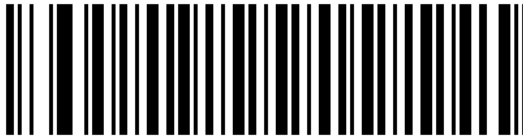


Restore GS1 DataBar Omnidirectional default settings

**Enable/disable**



\* Enable



Disable

**GS1 DataBar Limited**

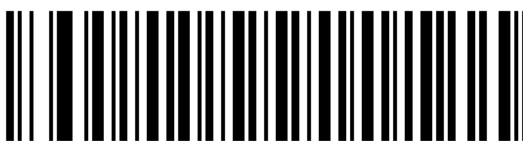
**Note**

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



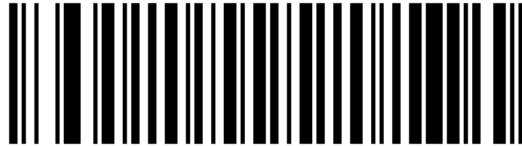
Disable

## 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



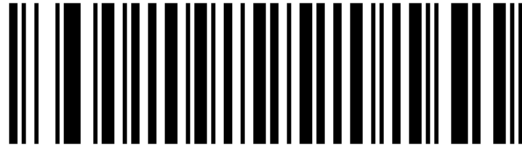
Disable

## 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

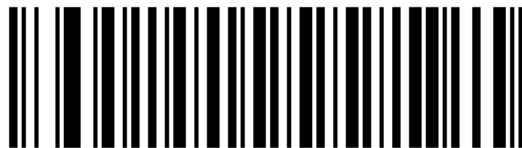


Maximum reading length

## Aztec Code

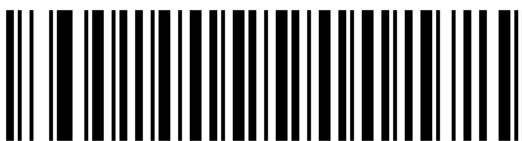
### Note

Default all Aztec Code settings



Restore Aztec Code default settings

## Enable/disable



\* Enable



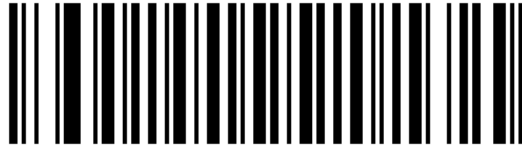
Disable

## 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)

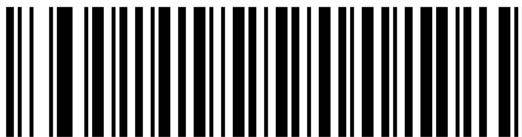
### Note

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



Restore China Post default settings

## Enable/disable



Enable



\* Disable

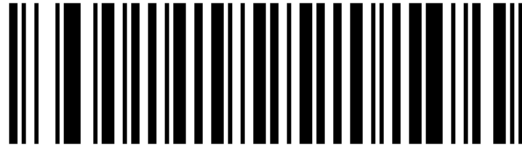
## Reading length

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

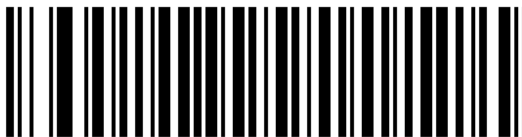
### Note

Default all settings



Restore Korea Post default settings

## Enable/disable



Enable



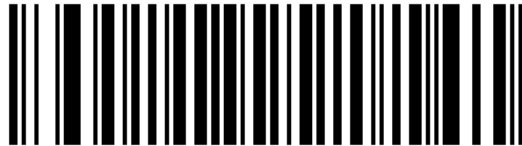
\* Disable

## 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



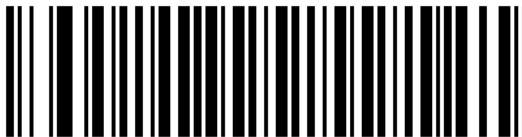
Maximum reading length

## 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

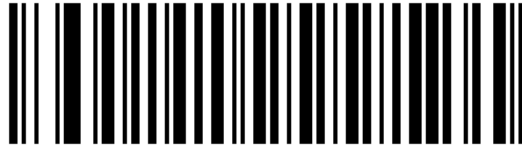
### Enable/disable



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

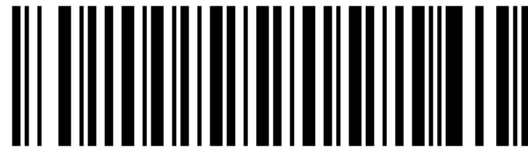


Restore MaxiCode default settings

## 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



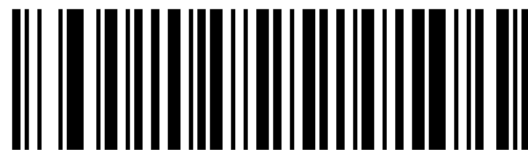
Enable



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

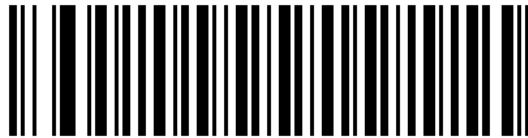


Restore GS1 Composite Code default settings

## Enable/disable



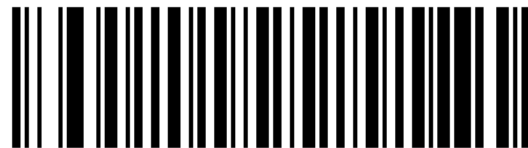
Enable



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



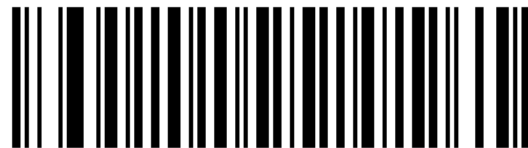
Enable



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



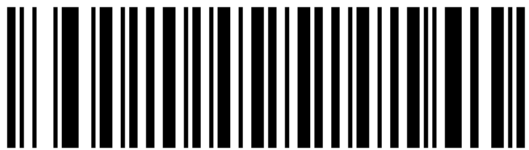
Enable



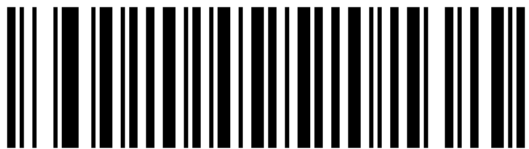
Disable

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

11.3 Engine code tabulation

1D Symbologies

| Symbology       | AIM | HS7                   |    |     |
|-----------------|-----|-----------------------|----|-----|
|                 | ID  | Possible Modifiers(m) | ID | Hex |
| All Symbologies |     |                       |    | 99  |
| Codabar         | ]Fm | 0-1                   | a  | 61  |
| Code 11         | ]H3 |                       | h  | 68  |
| Code 128        | ]Cm | 0, 1, 2, 4            | j  | 6A  |

continues on next page



Table 2 – continued from previous page

| Symbology                          | AIM | HS7                      |   |    |
|------------------------------------|-----|--------------------------|---|----|
| Code 32 Pharmaceutical (PARAF)     | JX0 |                          | < | 3C |
| Code 39 (supports Full ASCII mode) | JAm | 0, 1, 3, 4,5,7           | b | 62 |
| TCIF Linked Code 39 (TLC39)        | JL2 |                          | T | 54 |
| Code 93 and 93i                    | JGm | 0-9, A-Z, a-m            | i | 69 |
| EAN                                | JEm | 0, 1, 3, 4               | d | 64 |
| 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 |

continues on next page

Table 2 – continued from previous page

| Symbology           | AIM | HS7  |
|---------------------|-----|------|
| UPC-E with Add-On   | ]E3 | E 45 |
| UPC-E1              | ]X0 | E 45 |
| Add HS7 Code ID     |     | 5C80 |
| Add AIM Code ID     |     | 5C81 |
| Add Backslash       |     | 5C5C |
| Batch Mode Quantity |     | 5 35 |

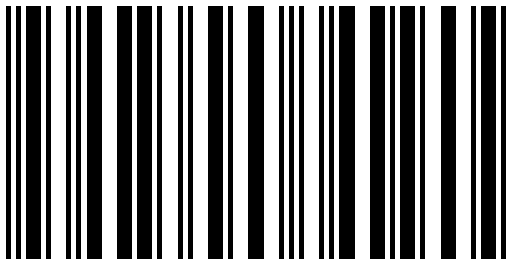
## 2D Symbologies

| Symbology                            | AIM | HS7                   | ID | Hex |
|--------------------------------------|-----|-----------------------|----|-----|
|                                      | 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  |

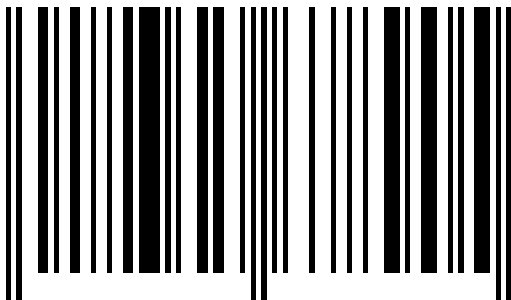
Postal Code

| 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  |

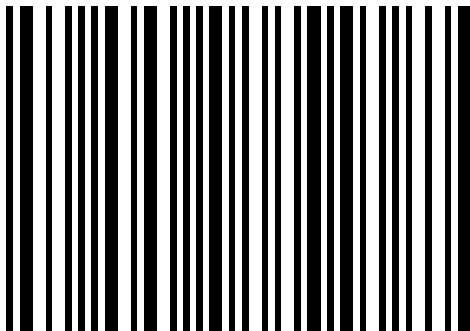
Barcode example



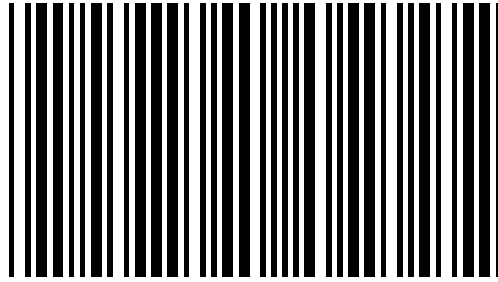
Example content: 1234567890



Example content: 0012345678905



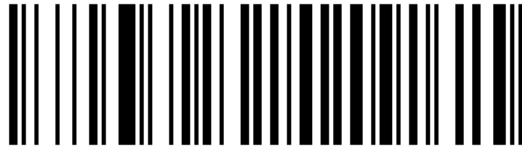
Example content: A13579B



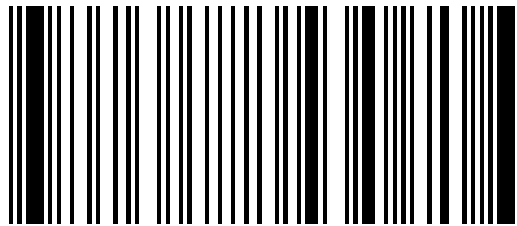
Example content: BC321



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

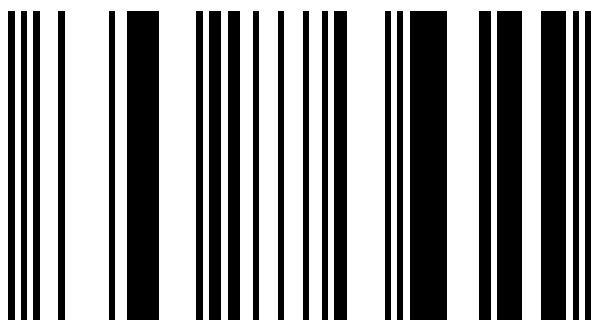
Barcode example picture

## Straight 2 of 5 Industrial



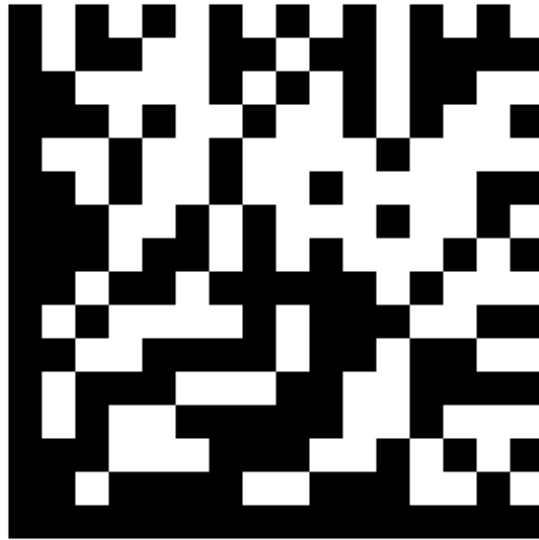
123456

Barcode example picture



---

Example content: (01)00123456789012



Example content: Test Symbol

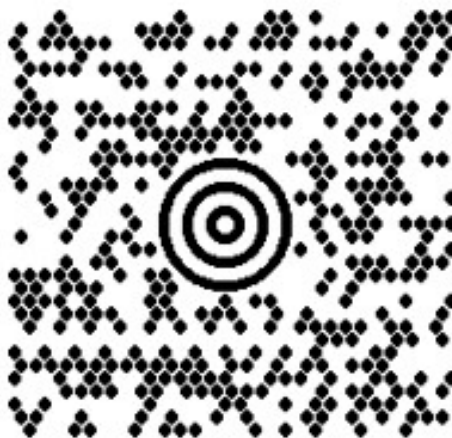
## Micro PDF417



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

## 11.4 engine character table

### 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)     |

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Table 3 – continued from previous page

| Hexadecimal | decimal | character                       |
|-------------|---------|---------------------------------|
| 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)                       |
| 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                               |

continues on next page



Table 3 – continued from previous page

| Hexadecimal | decimal | character                   |
|-------------|---------|-----------------------------|
| 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)              |
| 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                           |

continues on next page

Table 3 – continued from previous page

| Hexadecimal | decimal | character               |
|-------------|---------|-------------------------|
| 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)            |

## 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+  |                      |

11.5 Engine setting barcode

Appendix Charts



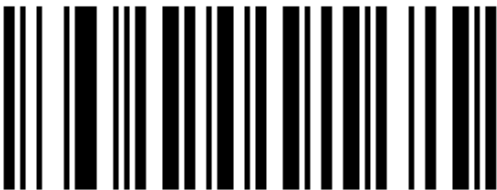
0



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.

## 12 Appendix

### 12.1 Character Reference Table

#### ASCII Function Key Character Reference Table

##### 0FH

| HEX | CODE | *Config0  | Config3   | Con-fig1 | Con-fig4 | Config2 Win-dows | Config5 Win-dows |
|-----|------|-----------|-----------|----------|----------|------------------|------------------|
| 00H | NUL  | NUL       | NUL       | Ctrl+@   | Ctrl+@   | ALT+000          | ALT+000          |
| 01H | SOH  | NUL       | NUL       | Ctrl+A   | Ctrl+A   | ALT+001          | ALT+001          |
| 02H | STX  | NUL       | NUL       | Ctrl+B   | Ctrl+B   | ALT+002          | ALT+002          |
| 03H | ETX  | NUL       | NUL       | Ctrl+C   | Ctrl+C   | ALT+003          | ALT+003          |
| 04H | EOT  | NUL       | NUL       | Ctrl+D   | Ctrl+D   | ALT+004          | ALT+004          |
| 05H | ENQ  | NUL       | NUL       | Ctrl+E   | Ctrl+E   | ALT+005          | ALT+005          |
| 06H | ACK  | NUL       | NUL       | Ctrl+F   | Ctrl+F   | ALT+006          | ALT+006          |
| 07H | BEL  | NUL       | NUL       | Ctrl+G   | Ctrl+G   | ALT+007          | ALT+007          |
| 08H | BS   | Backspace | Backspace | Ctrl+H   | Ctrl+H   | ALT+008          | ALT+008          |
| 09H | HT   | TAB       | TAB       | TAB      | Ctrl+I   | ALT+009          | ALT+009          |
| 0AH | LF   | NUL       | Enter     | Ctrl+J   | Ctrl+J   | ALT+010          | ALT+010          |
| 0BH | VT   | TAB       | TAB       | Ctrl+K   | Ctrl+K   | ALT+011          | ALT+011          |
| 0CH | FF   | NUL       | NUL       | Ctrl+L   | Ctrl+L   | ALT+012          | ALT+012          |
| 0DH | CR   | Enter     | Enter     | Enter    | Ctrl+M   | Enter            | ALT+013          |
| 0EH | SO   | NUL       | NUL       | Ctrl+N   | Ctrl+N   | ALT+014          | ALT+014          |
| 0FH | SI   | NUL       | NUL       | Ctrl+O   | Ctrl+O   | ALT+015          | ALT+015          |

##### 1FH

| HEX | CODE | *Config0/3 | Config1/4 | Config2/5 Windows |
|-----|------|------------|-----------|-------------------|
| 10H | DLE  | NUL        | Ctrl+P    | ALT+016           |
| 11H | DC1  | NUL        | Ctrl+Q    | ALT+017           |
| 12H | DC2  | NUL        | Ctrl+R    | ALT+018           |
| 13H | DC3  | NUL        | Ctrl+S    | ALT+019           |
| 14H | DC4  | NUL        | Ctrl+T    | ALT+020           |
| 15H | NAK  | NUL        | Ctrl+U    | ALT+021           |
| 16H | SYN  | NUL        | Ctrl+V    | ALT+022           |
| 17H | ETB  | NUL        | Ctrl+W    | ALT+023           |
| 18H | CAN  | NUL        | Ctrl+X    | ALT+024           |
| 19H | EM   | NUL        | Ctrl+Y    | ALT+025           |
| 1AH | SUB  | NUL        | Ctrl+Z    | ALT+026           |
| 1BH | ESC  | ESC        | Ctrl+[    | ALT+027           |
| 1CH | FS   | NUL        | Ctrl+\    | ALT+028           |
| 1DH | GS   | NUL        | Ctrl+]    | ALT+029           |
| 1EH | RS   | NUL        | Ctrl+^    | ALT+030           |
| 1FH | US   | NUL        | Ctrl+-    | ALT+031           |

**Note**

On Mac systems, the Ctrl key corresponds to the Command key.

**ASCII Character Reference Table****5FH**

| HEX | ASCII | HEX | ASCII | HEX | ASCII | HEX | ASCII |
|-----|-------|-----|-------|-----|-------|-----|-------|
| 20H | Space | 30H | 0     | 40H | @     | 50H | P     |
| 21H | !     | 31H | 1     | 41H | A     | 51H | Q     |
| 22H | "     | 32H | 2     | 42H | B     | 52H | R     |
| 23H | #     | 33H | 3     | 43H | C     | 53H | S     |
| 24H | \$    | 34H | 4     | 44H | D     | 54H | T     |
| 25H | %     | 35H | 5     | 45H | E     | 55H | U     |
| 26H | &     | 36H | 6     | 46H | F     | 56H | V     |
| 27H | '     | 37H | 7     | 47H | G     | 57H | W     |
| 28H | (     | 38H | 8     | 48H | H     | 58H | X     |
| 29H | )     | 39H | 9     | 49H | I     | 59H | Y     |
| 2AH | *     | 3AH | :     | 4AH | J     | 5AH | Z     |
| 2BH | +     | 3BH | ;     | 4BH | K     | 5BH | [     |
| 2CH | ,     | 3CH | <     | 4CH | L     | 5CH | \     |
| 2DH | -     | 3DH | =     | 4DH | M     | 5DH | ]     |
| 2EH | .     | 3EH | >     | 4EH | N     | 5EH | ^     |
| 2FH | /     | 3FH | ?     | 4FH | O     | 5FH | _     |

**9DH**

| HEX | ASCII | HEX | ASCII | HEX | Fun Key | HEX | Fun Key      |
|-----|-------|-----|-------|-----|---------|-----|--------------|
| 60H | `     | 70H | p     | 80H | F1      | 90H | End          |
| 61H | a     | 71H | q     | 81H | F2      | 91H | Page Down    |
| 62H | b     | 72H | r     | 82H | F3      | 92H | Right Arrow  |
| 63H | c     | 73H | s     | 83H | F4      | 93H | Left Arrow   |
| 64H | d     | 74H | t     | 84H | F5      | 94H | Down Arrow   |
| 65H | e     | 75H | u     | 85H | F6      | 95H | Up Arrow     |
| 66H | f     | 76H | v     | 86H | F7      | 96H | Print Screen |
| 67H | g     | 77H | w     | 87H | F8      | 97H | *Ctrl        |
| 68H | h     | 78H | x     | 88H | F9      | 98H | *Shift       |
| 69H | i     | 79H | y     | 89H | F10     | 99H | *Left Alt    |
| 6AH | j     | 7AH | z     | 8AH | F11     | 9AH | *Right Alt   |
| 6BH | k     | 7BH | {     | 8BH | F12     | 9BH | 1s Delay     |
| 6CH | l     | 7CH |       | 8CH | Insert  | 9CH | *Win-GUI     |
| 6DH | m     | 7DH | }     | 8DH | Home    | 9DH | *Keystroke   |
| 6EH | n     | 7EH | ~     | 8EH | Page Up |     |              |
| 6FH | o     | 7FH | DEL   | 8FH | Delete  |     |              |



 **Note**

When Ctrl, Shift, Alt, GUI are set as prefix or suffix, they will be output in combination with the next character (not supported when set to ALT, TH keyboard). The character after Keystroke is directly output as the key value.