



NT-1202W User Manual

Jun 22, 2026

Contents

1	System Settings	4
1.1	Read firmware version	4
1.2	Restore Factory Defaults	4
1.3	working mode	4
2	Power management	6
2.1	Read sleep time	6
2.2	Set sleep time	6
2.3	Get scanner battery level	8
3	Feedback Indicators	8
3.1	Buzzer control	8
3.2	Vibration motor control	9
3.3	Buzzer sound definition	10
3.4	Indicator definition	10
4	wired mode	10
4.1	USB transfer method	10
4.2	USB keyboard transfer speed	11
4.3	USB HID multi-key send settings	12
5	wireless mode	13
5.1	Read Interface Settings	13
5.2	Wireless transmission method	13
5.3	2.4G pairing	14
5.4	Receiver working mode	14
5.5	2.4G transmission cache	16
6	Bluetooth Mode	17
6.1	Read Interface Settings	17
6.2	Bluetooth Transmission Mode	17
6.3	Bluetooth Operating Mode	17
6.4	Change Bluetooth Name	18
6.5	Clear Bluetooth HID Pairing	18
6.6	System Keyboard Functions	19
6.7	Switch between Bluetooth and 2.4G by pressing and holding for 8 seconds	20
6.8	Bluetooth keyboard transmission speed	20
6.9	Bluetooth connection status non-sleep setting	22
7	Keyboard Settings	22
7.1	HID Keyboard General Setting	22
7.2	Keyboard language settings	29
8	Keyboard Language	30
8.1	Read the current keyboard layout	30
9	Data Editing	36
9.1	Standard Data Editing Settings	36
9.2	Extended Data Editing Settings	43

9.3	Terminal character settings	45
9.4	GS1 AI field bracket settings	46
10	Scan Mode	48
10.1	Barcode Decode Mode	48
11	Module Settings	51
11.1	Device Feature Settings	51
11.2	Trigger Settings	52
11.3	Engine Code ID	55
11.4	Engine output format	57
11.5	Barcode Settings	58
11.6	Engine setting barcode	93
11.7	Engine Character Table	95
12	Appendix	113
12.1	Character Reference Table	113

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



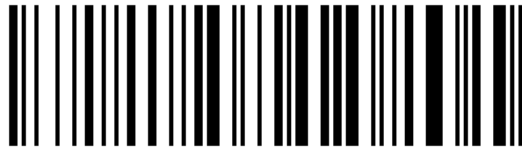
Upload storage data



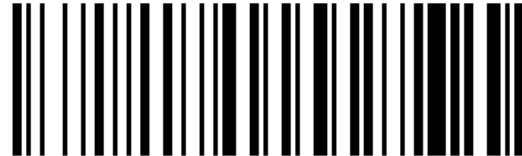
Read the total number of stored barcodes



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



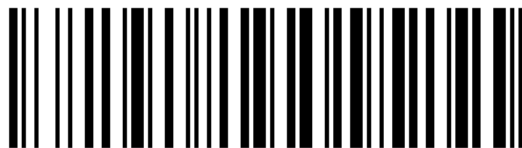
Sleep after 3 minutes (default)



Sleep after 5 minutes



Sleep after 10 minutes



Sleep after 30 minutes



Sleep after 1 hour

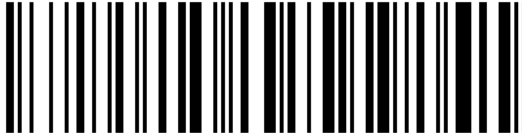


Sleep after 2 hours



never sleep

2.3 Get scanner battery level



Get battery level

3 Feedback Indicators

3.1 Buzzer control



mute



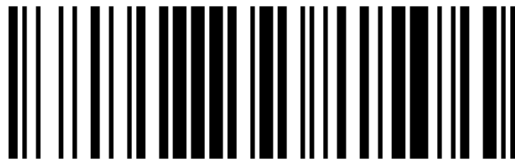
* high volume



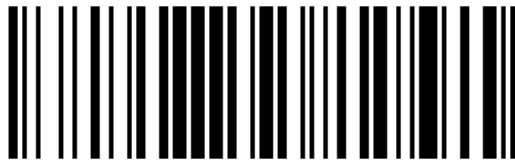
medium volume



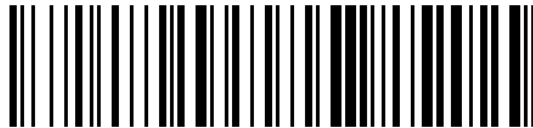
low volume



* 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

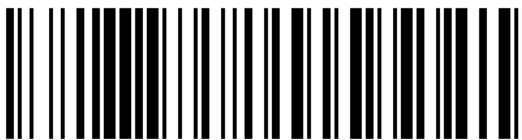


One-to-one pairing

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.



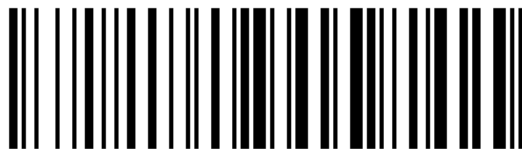
Offline caching switch

6 Bluetooth Mode

i Note

Only suitable for RF+BT scanners with Bluetooth function.

6.1 Read Interface Settings



Current Interface Settings

6.2 Bluetooth Transmission Mode

i 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

i Note

Valid only in Bluetooth mode.

i 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

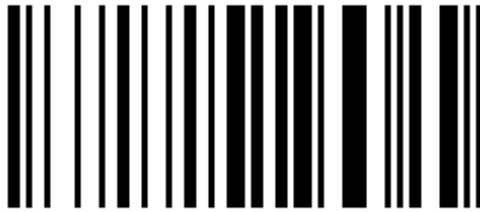
After scanning “Clear Pairing” in Bluetooth transmission mode, the scanner will disconnect the currently paired device and clear the pairing list, then wait for new devices to be paired. Historically paired devices need to be deleted and paired again.



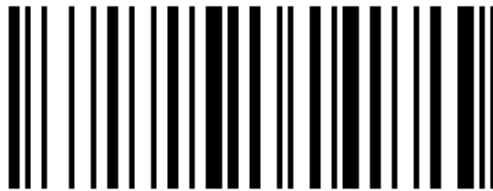
Clear Bluetooth Pairing

6.6 System Keyboard Functions

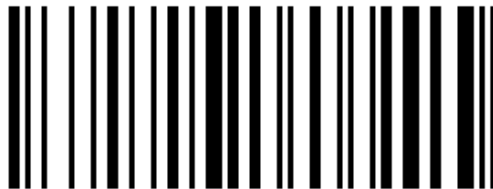
iOS system pop-up keyboard function



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)

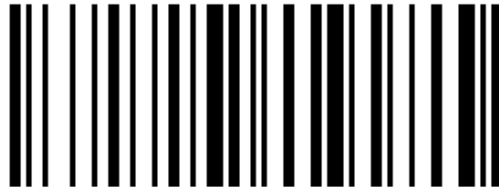


Low speed (30 ms)

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.

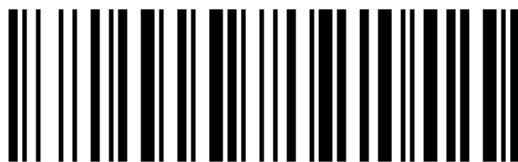
Ctrl key combination settings



* Combine-Key Off



Ctrl+ Key Config1



Alt+ Key Config2



Normal-Key Config3



Ctrl+ Key Config4



Alt+ Key Config5

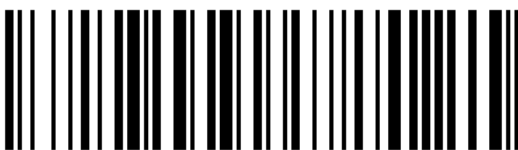
Note

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

Case settings



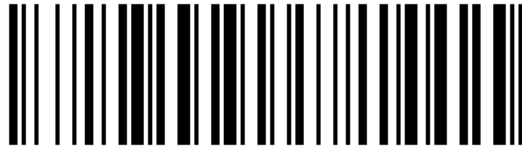
normal



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



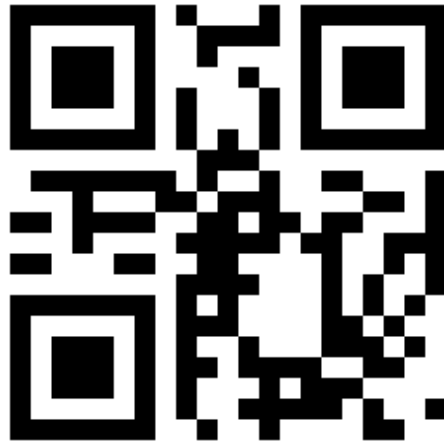
Num Lock on

*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.



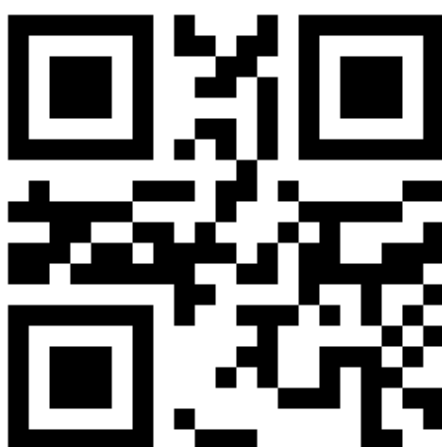
Read the current character set settings



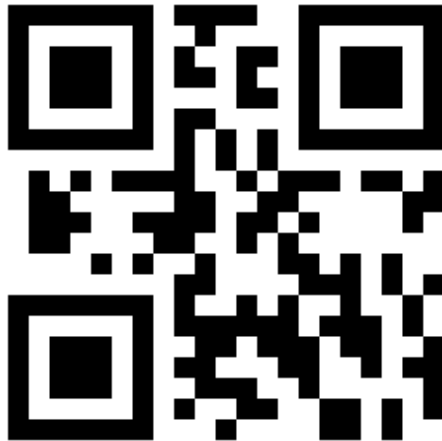
automatic



GBK / BIG5 / HANGUL / SJIS



ISO/IEC 8859



UTF8 (Word)



UTF8 (Txt)



Normal mode

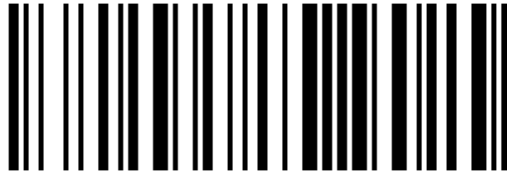
illustrate:

model	Applicable scenarios	Code scan engine 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 ($\geq \text{C0H}$), 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

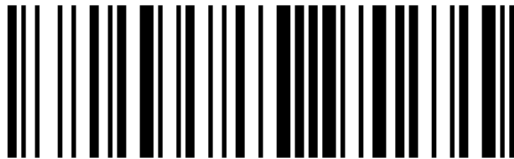
This section is used to set the way different receiving devices input ASCII characters (0x20 to 0x7F) and needs to be used in conjunction with *Keyboard Language Settings*.



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”

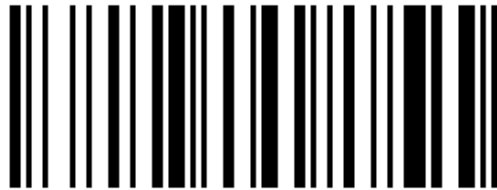
7.2 Keyboard language settings

➡ 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

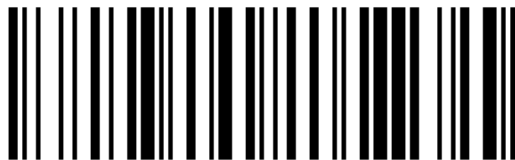


Czech keyboard



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



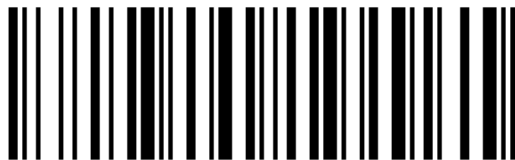
Canadian French (traditional) keyboard

L14 HRCroatia Key

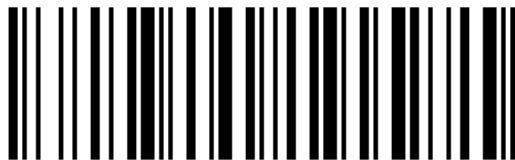


Croatian keyboard

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

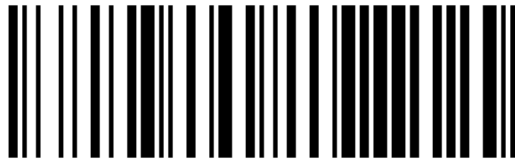
Note

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

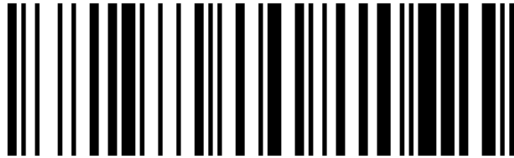
For character values, please refer to *ASCII Function Key Character Reference Table* and *ASCII Character Reference Table*; for parameters that require input of numerical values, please scan *Numeric Setup Codes*; for specific procedures, see *Add a Prefix or Suffix*.

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



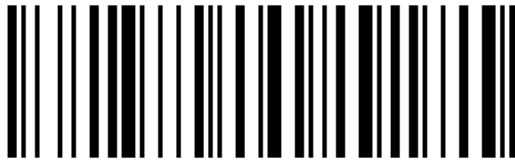
Hide Leading Characters



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



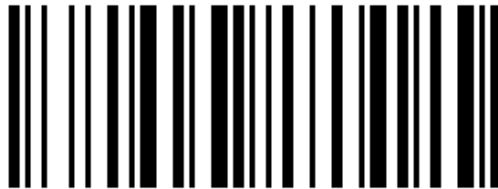
Numeric Setup Code C



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



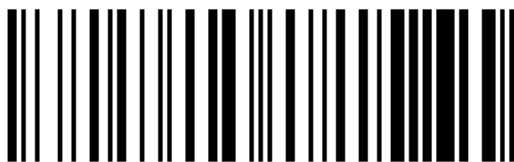
Allow Suffix Output



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#nc11xx#
```

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.

11

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 ≤ 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

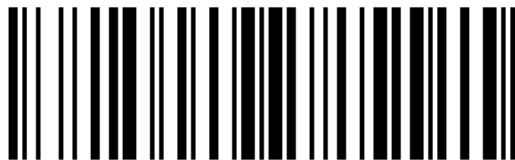
Example

`$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



Start Setup

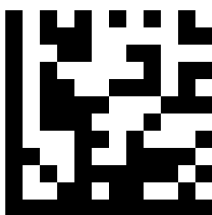
11 Module Settings

11.1 Device Feature Settings

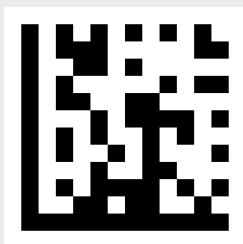
Important

On this page, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

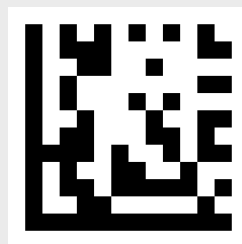
Aiming Light



Enable During Scanning

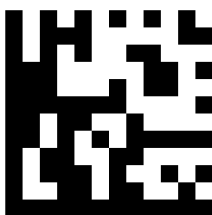


* Always Enable

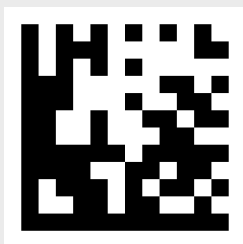


Disable

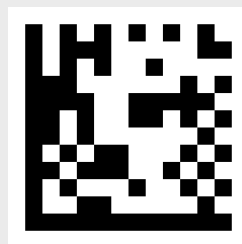
Illumination Mode



* Enable During Scanning



Always Enable



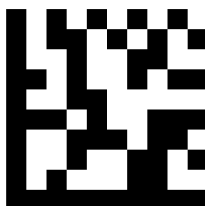
Disable



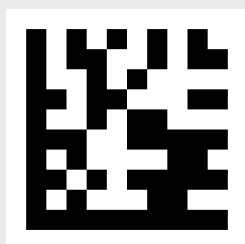


Start Setup

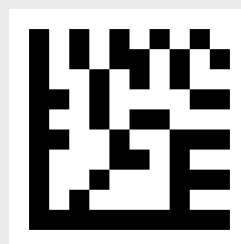
Illumination Brightness



* High Brightness



Medium Brightness



Low Brightness

11.2 Trigger Settings

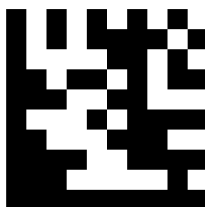
Important

On this page, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

Scan Mode

Level Trigger

Scanning starts while the scan key is held down and ends after a successful decode or when the read timeout is reached.



* Level Trigger

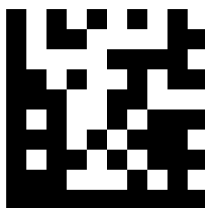
Auto Sensing

Scanning starts when image changes are detected and ends when the read timeout is reached.





Start Setup



Auto Sensing

Continuous Scanning

Continuously read one or multiple barcodes. The same-code interval setting defines the decode order. Press and release the scan key to start or stop scanning.



Continuous Scanning

Same Barcode Read Mode

In auto sensing, continuous scanning, and pulse trigger modes, you can configure how repeated reads of the same barcode are handled.

Note

By default, the same barcode is not read again within 500 ms. The interval can be set to 0~5000 ms, where 0 means no interval.

Suppress Repeated Reads

If the same barcode is read repeatedly within the suppression period, it is ignored and not output, and the timer restarts.

Interval Read

If the same barcode is read repeatedly within the interval, it is ignored and not output. It is output again after the interval expires.

Do Not Repeat Same Barcode

The same barcode is not output repeatedly.

Example: Suppress repeated reads of the same barcode within 100 ms.

1. Scan “Start Setup” .
2. Scan the “Suppress Repeated Reads” setting barcode.
3. Scan the “Read Interval” setting barcode.



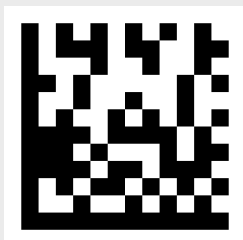


Start Setup

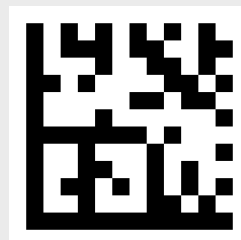
4. Scan the 1 setting barcode in *Decimal Digits*.
5. Scan the 0 setting barcode in *Decimal Digits*.
6. Scan the 0 setting barcode in *Decimal Digits*.
7. Scan “End Setup” .

i Example: Read the same barcode again after a 1-second interval.

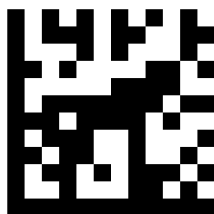
1. Scan “Start Setup” .
2. Scan the “Interval Read” setting barcode.
3. Scan the “Read Interval” setting barcode.
4. Scan the 1 setting barcode in *Decimal Digits*.
5. Scan the 0 setting barcode in *Decimal Digits*.
6. Scan the 0 setting barcode in *Decimal Digits*.
7. Scan the 0 setting barcode in *Decimal Digits*.
8. Scan “End Setup” .



* Suppress Repeated Reads



Interval Read

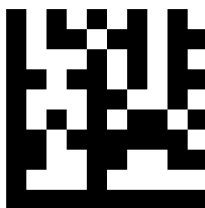


Do Not Repeat Same Barcode



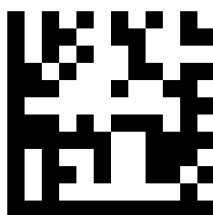


Start Setup

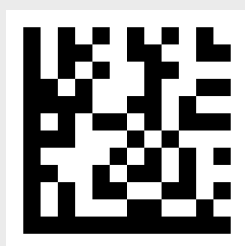


Read Interval (ms)

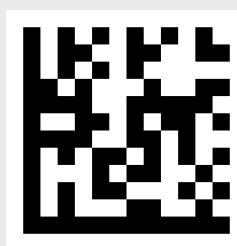
Auto Sensing Sensitivity



Low Sensitivity



* Medium Sensitivity



High Sensitivity

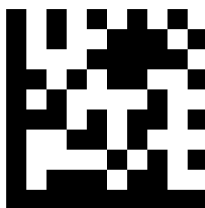
11.3 Engine Code ID

Important

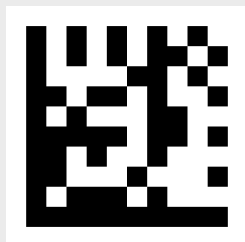
On this page, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

Barcode Identifier

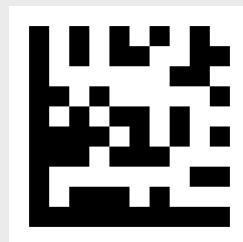




* Disable Barcode Identifier



Enable AIM Barcode Identifier



Enable NETUM Barcode Identifier

Barcode Identifier Table

Symbology	NETUM	AIM
UPC-A	A	E
UPC-E	E	E
EAN-8	FF	E
EAN-13	F	E
Code 128	K	C
Code 39	M	A
Code 93	L	G
Code 32	M	A
Code 11	O	H
Codabar	N	F
Plessey	P	P
MSI / Plessey	a	M
Interleaved 2 of 5	I	I
IATA 2 of 5	Z	R
Matrix 2 of 5	G	X
Straight 2 of 5	S	S
Pharmacode	H	X
GS1 DataBar 14	RS	e
GS1 DataBar Expanded	RX	e
GS1 DataBar Limited	RL	e
Composite CC-A	m	e
Composite CC-B	n	e
Composite CC-C	i	e
PDF417	r	L
Micro PDF417	s	L
Data Matrix	t	d

continues on next page





Table 2 – continued from previous page

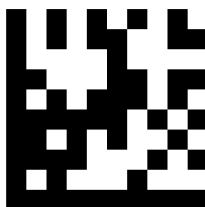
Symbology	NETUM	AIM
QR Code	u	Q
Micro QR	j	Q
Aztec	e	Z
MaxiCode	v	U

11.4 Engine output format

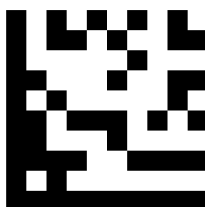
Important

On this page, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

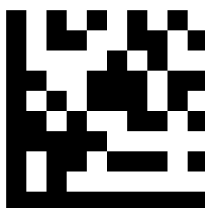
Terminator



none

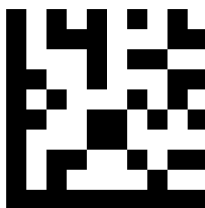


* Carriage Return / CR



CR / LF





TAB

11.5 Barcode Settings

Important

On this page, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

Supported Symbolologies

Symbolology	Status
UPC-A	* Enable
UPC-E	* Enable
EAN-8	* Enable
EAN-13	* Enable
Code 128 / GS1-128	* Enable
Code 39	* Enable
Code 93	* Enable
Code 32	Disable
Code 11	Disable
Codabar	* Enable
Plessey	Disable
MSI Plessey	* Enable
Interleaved 2 of 5	* Enable
IATA 2 of 5	Disable
Matrix 2 of 5	Disable
Straight 2 of 5	Disable
Pharmacode	Disable
GS1 DataBar 14	* Enable
GS1 DataBar 14 Stacked	Disable
GS1 DataBar Expanded	* Enable
GS1 DataBar Expanded Stacked	Disable
GS1 DataBar Limited	* Enable
Composite Code-A	Disable
Composite Code-B	Disable
Composite Code-C	Disable
PDF417	* Enable
MicroPDF417	* Enable
Data Matrix	* Enable
QR Code	* Enable

continues on next page





Start Setup

Table 3 – continued from previous page

Symbology	Status
Micro QR	* Enable
Aztec	Disable
MaxiCode	Disable

General Symbology Switches

Important

For settings in this group, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

Enable All Barcodes



Enable All Barcodes

Enable 1D Barcodes Only



Enable 1D Barcodes Only

Enable 2D Barcodes Only



Enable 2D Barcodes Only





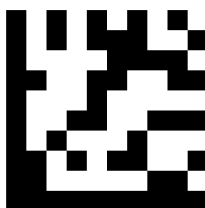
Start Setup

1D Symbology Settings

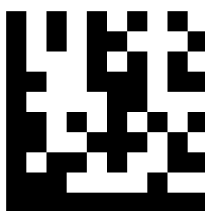
Important

For settings in this group, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

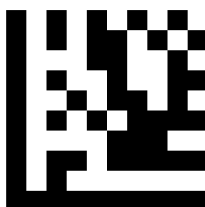
UPC-A



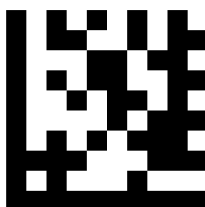
* Enable UPC-A



Disable UPC-A



* Transmit Leading Digit

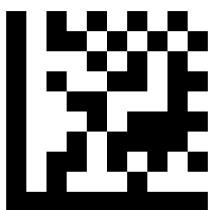


Do Not Transmit Leading Digit

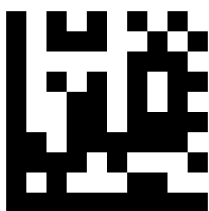




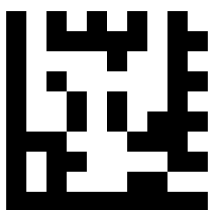
Start Setup



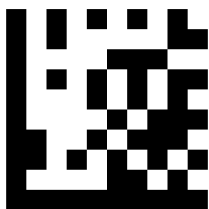
* Enable Check Digit



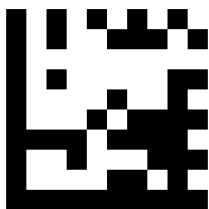
Disable Check Digit



Enable EAN-13 Conversion



* Disable EAN-13 Conversion

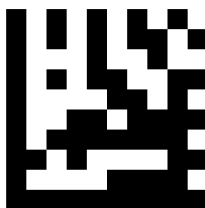


Enable UPC-A 2/5-digit Addenda

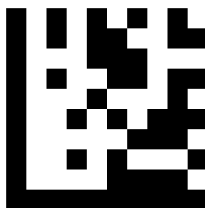




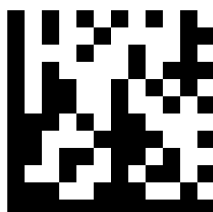
Start Setup



* Disable UPC-A 2/5-digit Addenda

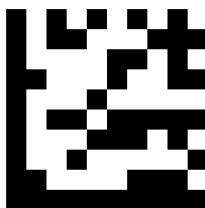


Read Only UPC-A 2/5-digit Addenda

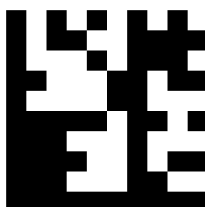


* Read UPC-A and UPC-A 2/5-digit Addenda

UPC-E



* Enable UPC-E

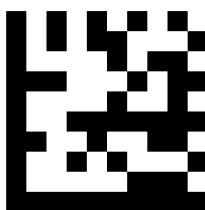


Disable UPC-A

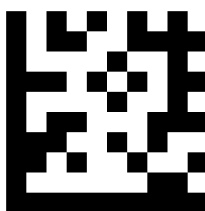




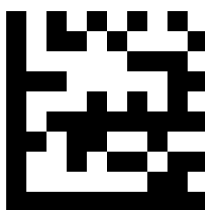
Start Setup



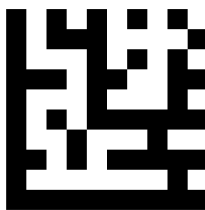
* Transmit Leading Digit



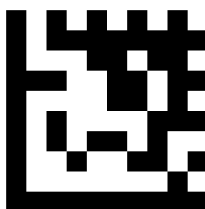
Do Not Transmit Leading Digit



* Enable Check Digit



Disable Check Digit

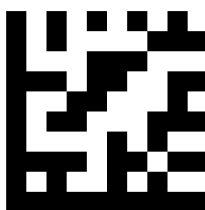


Enable UPC-A Conversion

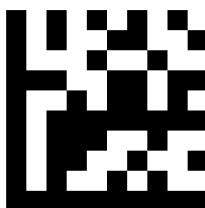




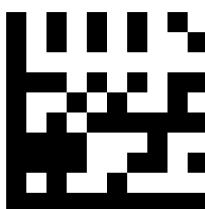
Start Setup



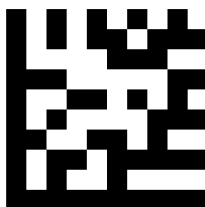
* Disable UPC-A Conversion



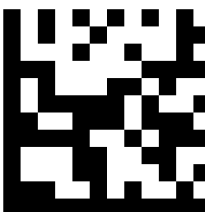
Enable UPC-E 2/5-digit Addenda



* Disable UPC-E 2/5-digit Addenda



Read Only UPC-E 2/5-digit Addenda



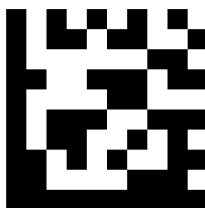
* Read UPC-E and UPC-E 2/5-digit Addenda

EAN-8

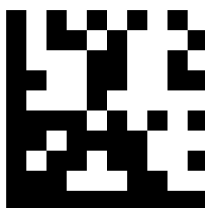




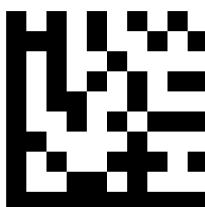
Start Setup



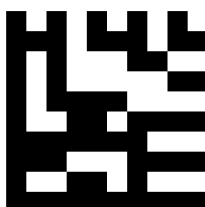
* Enable EAN-8



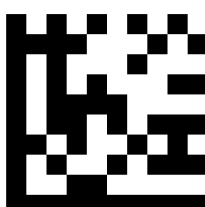
Disable EAN-8



* Transmit Check Digit



Do Not Transmit Check Digit

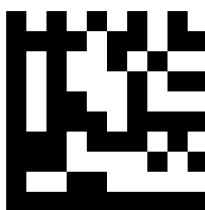


Enable EAN-13 Conversion

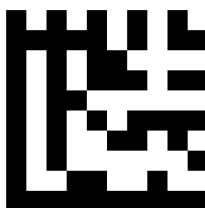




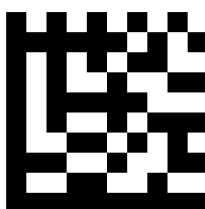
Start Setup



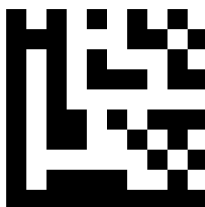
* Disable EAN-13 Conversion



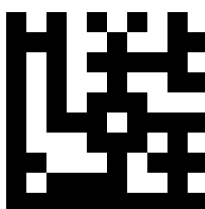
Enable EAN-8 2/5-digit Addenda



* Disable EAN-8 2/5-digit Addenda



Read Only EAN-8 2/5-digit Addenda



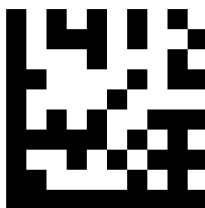
* Read EAN-8 and EAN-8 2/5-digit Addenda

EAN-13

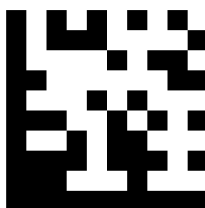




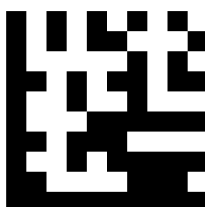
Start Setup



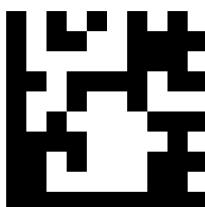
* Enable EAN-13



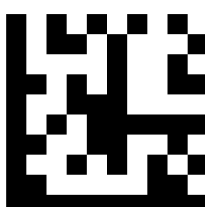
Disable EAN-13



* Transmit Check Digit



Do Not Transmit Check Digit

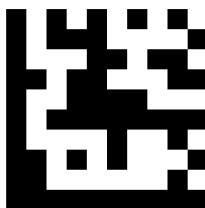


Enable ISBN Conversion

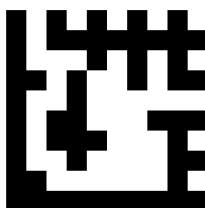




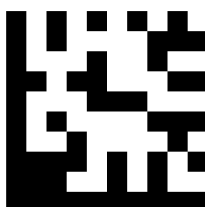
Start Setup



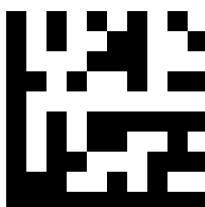
* Disable ISBN Conversion



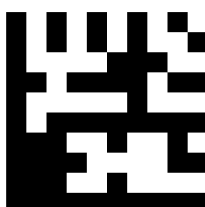
Enable ISSN Conversion



* Disable ISSN Conversion



Enable EAN-13 2/5-digit Addenda

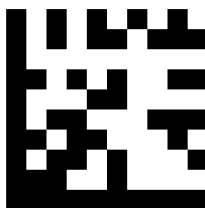


* Disable EAN-13 2/5-digit Addenda





Start Setup

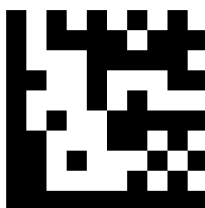


Read Only EAN-13 2/5-digit Addenda

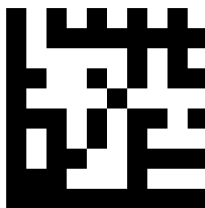


* Read EAN-13 and EAN-13 2/5-digit Addenda

Code 128 / GS1-128

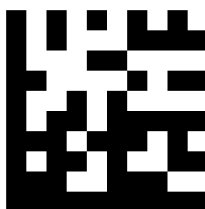


* Enable Code 128 / GS1-128



Disable Code 128 / GS1-128

Code 39

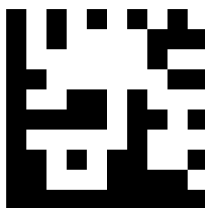


* Enable Code 39

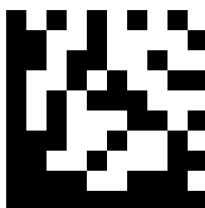




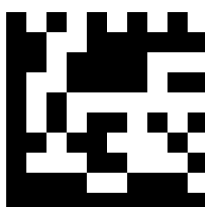
Start Setup



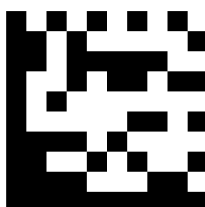
Disable Code 39



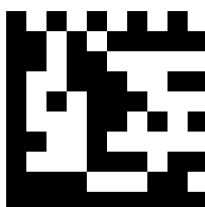
Enable Code 39 Full ASCII Function



* Disable Code 39 Full ASCII Function



Transmit Start/Stop Characters

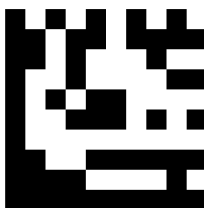


* Do Not Transmit Start/Stop Characters

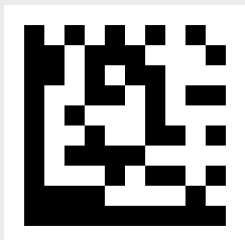




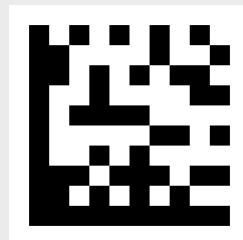
Start Setup



* No Verification



Verify and Transmit

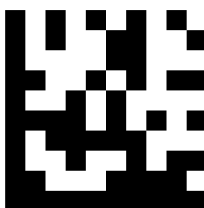


Verify Without Transmitting

Code 93

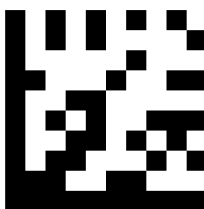


Enable Code 93



* Disable Code 93

Code 32

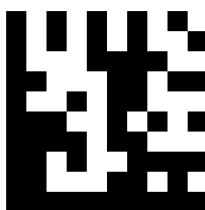


Enable Code 32



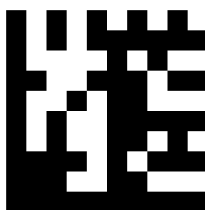


Start Setup

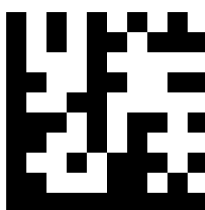


* Disable Code 32

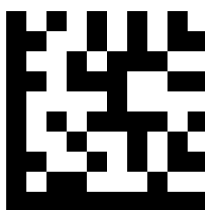
Code 11



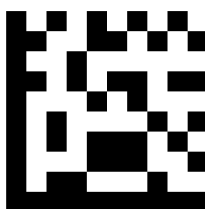
Enable Code 11



* Disable Code 11



* Transmit Check Digit



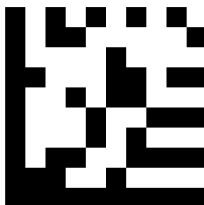
Do Not Transmit Check Digit



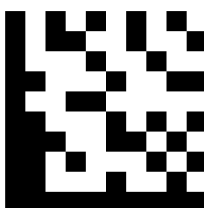


Start Setup

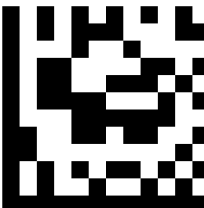
Codabar



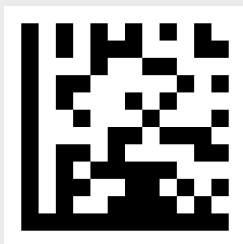
* Enable Codabar



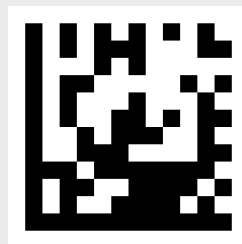
Disable Codabar



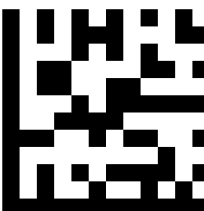
* No Verification



Verify and Transmit



Verify Without Transmitting

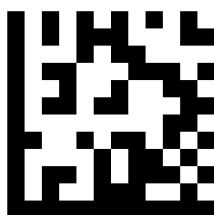


Transmit Start/Stop Characters



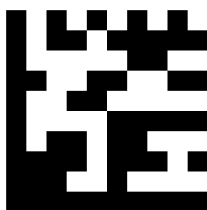


Start Setup

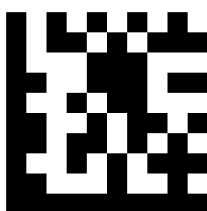


* Do Not Transmit Start/Stop Characters

Plessey

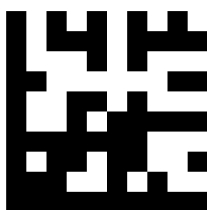


Enable Plessey

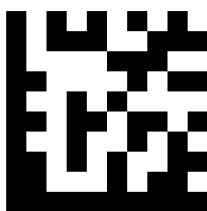


* Disable Plessey

MSI Plessey



* Enable MSI Plessey

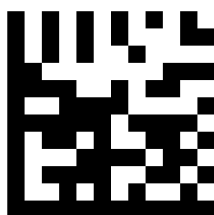


Disable MSI Plessey





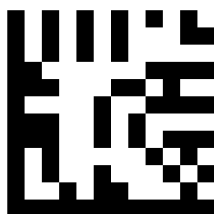
Start Setup



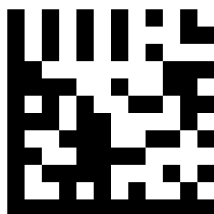
No Verification



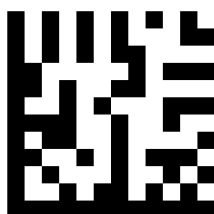
* Mod 10 Verification



Mod 10/10 Verification



Mod 11/10 Verification

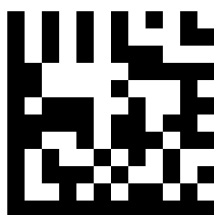


* Transmit Check Digit



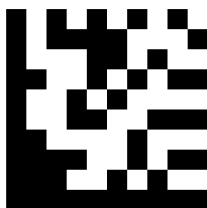


Start Setup

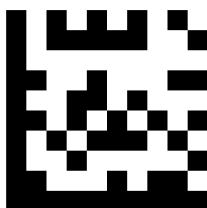


Do Not Transmit Check Digit

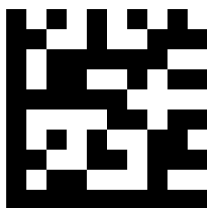
Interleaved 2 of 5



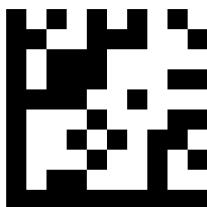
* Enable Interleaved 2 of 5



Disable Interleaved 2 of 5



* No Verification



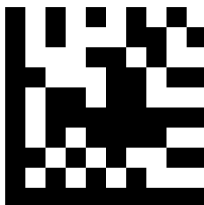
Verify and Transmit



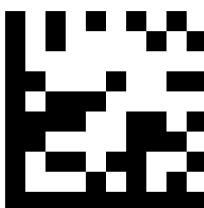


Start Setup

IATA 2 of 5

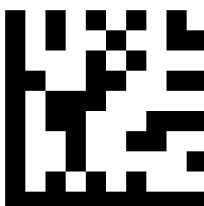


Enable IATA 2 of 5

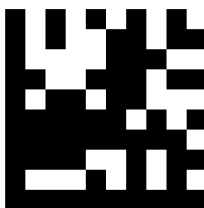


* Disable IATA 2 of 5

Matrix 2 of 5



Enable Matrix 2 of 5



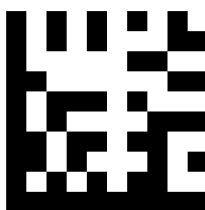
* Disable Matrix 2 of 5

Straight 2 of 5

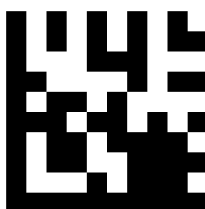




Start Setup

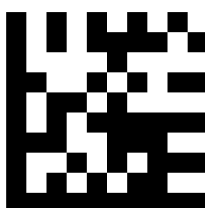


Enable Straight 2 of 5

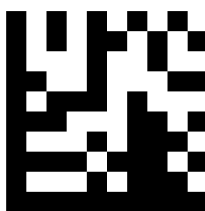


* Disable Straight 2 of 5

Pharmacode

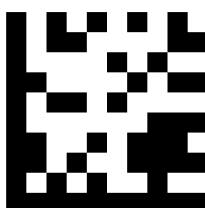


Enable Pharmacode



* Disable Pharmacode

GS1 DataBar 14

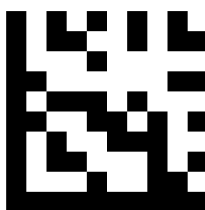


* Enable GS1 DataBar 14





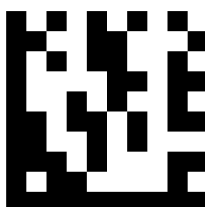
Start Setup



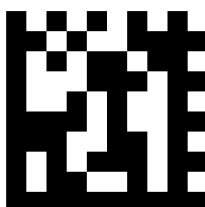
Disable GS1 DataBar 14



Enable GS1 DataBar 14 Stacked



* Disable GS1 DataBar 14 Stacked



* Output AI (01) Characters



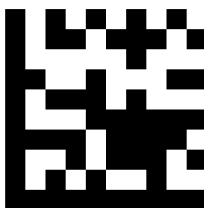
Do Not Output AI (01) Characters

GS1 DataBar Expanded

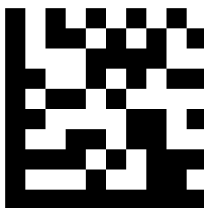




Start Setup



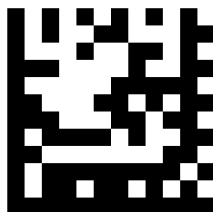
* Enable GS1 DataBar Expanded



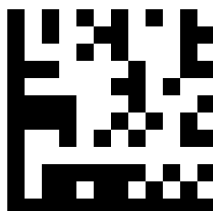
Disable GS1 DataBar Expanded



Enable GS1 DataBar Expanded Stacked



* Disable GS1 DataBar Expanded Stacked

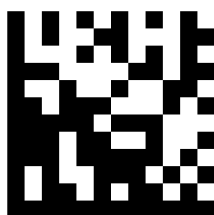


* Output AI (01) Characters



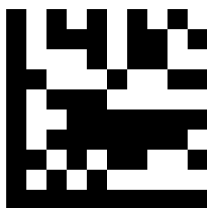


Start Setup

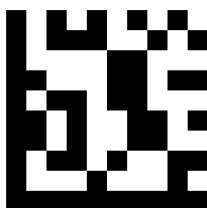


Do Not Output AI (01) Characters

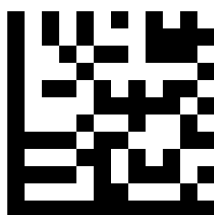
GS1 DataBar Limited



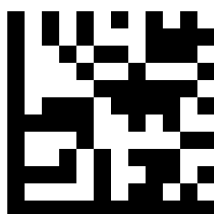
* Enable GS1 DataBar Limited



Disable GS1 DataBar Limited



* Output AI (01) Characters



Do Not Output AI (01) Characters





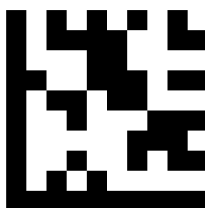
Start Setup

2D and Composite Code Settings

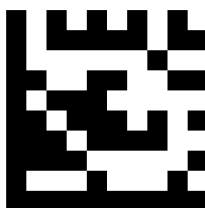
Important

For settings in this group, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

Composite Code-A

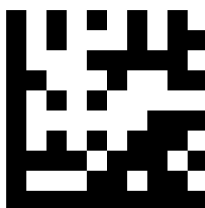


Enable Composite Code-A

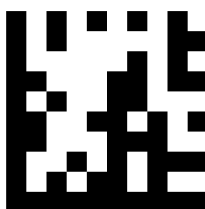


* Disable Composite Code-A

Composite Code-B



Enable Composite Code-B



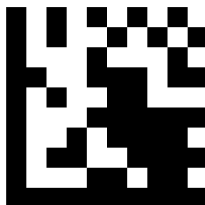
* Disable Composite Code-B



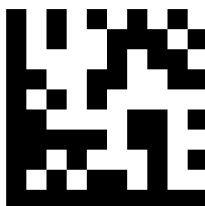


Start Setup

Composite Code-C



Enable Composite Code-C



* Disable Composite Code-C

PDF417



* Enable PDF417



Disable PDF417

Micro PDF417

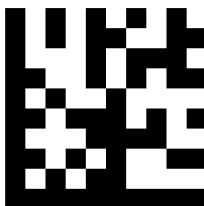




Start Setup

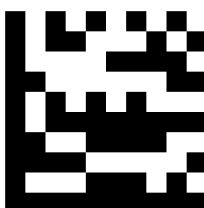


* Enable MicroPDF417



Disable Micro PDF417

Data Matrix



* Enable Data Matrix



Disable Data Matrix

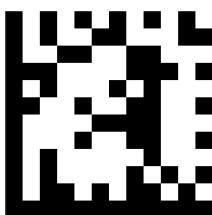


* Enable Mirror Decode

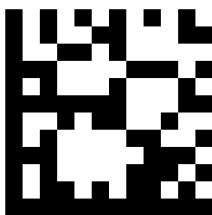




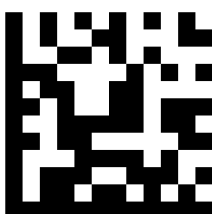
Start Setup



Disable Mirror Decode

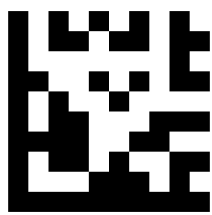


* Enable Rectangular Data Matrix

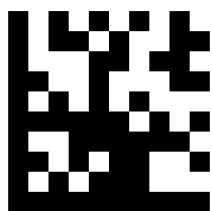


Disable Rectangular Data Matrix

QR Code



* Enable QR Code

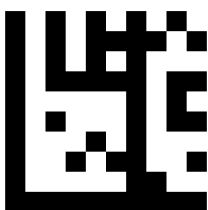


Disable QR Code

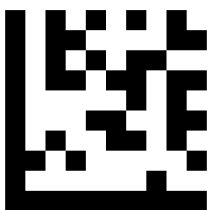




Start Setup

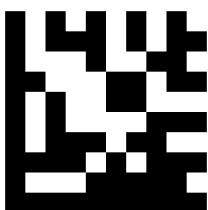


* Enable Mirror Decode

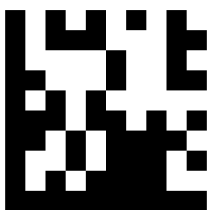


Disable Mirror Decode

Micro QR

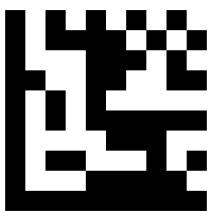


* Enable Micro QR



Disable Micro QR

Aztec

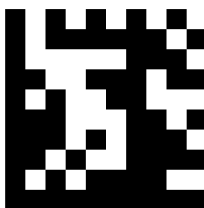


Enable Aztec





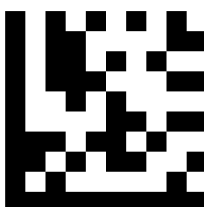
Start Setup



* Disable Aztec

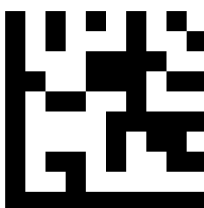


* Enable Mirror Decode



Disable Mirror Decode

MaxiCode



Enable MaxiCode



* Disable MaxiCode





Decode Length Settings

Important

For settings in this group, perform settings in the order: Start Setup -> Function Setting Barcode -> End Setup.

The following settings limit the readable length for each symbology; Code 128 is used as the example.

Restrict to a Single Length

Restrict reading to barcodes of a single length. For example, set Code 128 to read only barcodes with a length of 14 characters.

Example

1. Scan “Start Setup” .
2. Scan the Code 128 “Restrict to a Single Length” setting barcode.
3. Scan the 1 setting barcode in *ASCII Code Table*.
4. Scan the 4 setting barcode in *ASCII Code Table*.
5. Scan “End Setup” .

Restrict to Two Different Lengths

Restrict reading to barcodes of two different lengths. For example, set Code 128 to read barcodes with lengths of 2 and 14 characters.

Example

1. Scan “Start Setup” .
2. Scan the Code 128 “Restrict to Two Different Lengths” setting barcode.
3. Scan the 0 setting barcode in *ASCII Code Table*.
4. Scan the 2 setting barcode in *ASCII Code Table*.
5. Scan the 1 setting barcode in *ASCII Code Table*.
6. Scan the 4 setting barcode in *ASCII Code Table*.
7. Scan “End Setup” .

Restrict to a Length Range

Restrict reading to barcodes within a length range. For example, set Code 128 to read barcodes with lengths from 08~14 characters.





Start Setup

Example

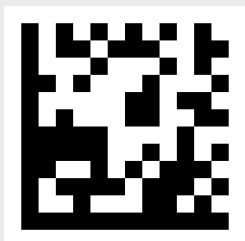
1. Scan “Start Setup” .
2. Scan the Code 128 “Restrict to a Length Range” setting barcode.
3. Scan the 0 setting barcode in *ASCII Code Table*.
4. Scan the 8 setting barcode in *ASCII Code Table*.
5. Scan the 1 setting barcode in *ASCII Code Table*.
6. Scan the 4 setting barcode in *ASCII Code Table*.
7. Scan “End Setup” .

any length

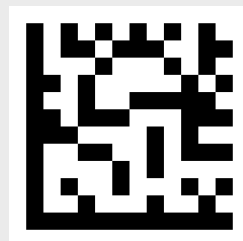
Example

1. Scan “Start Setup” .
2. Scan the Code 128 “Any Length” setting barcode.
3. Scan “End Setup” .

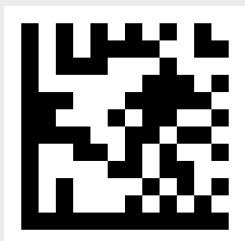
Code 128



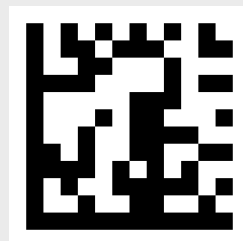
Restrict to a Single Length



Restrict to Two Different Lengths



Restrict to a Length Range



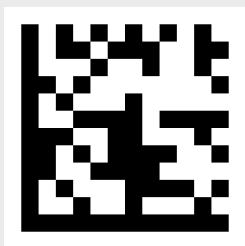
* Any Length



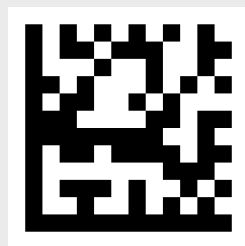


Start Setup

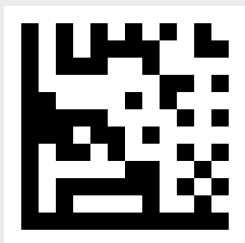
Code 39



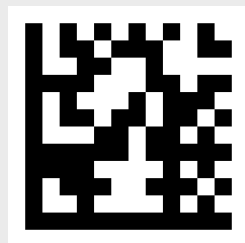
Restrict to a Single Length



Restrict to Two Different Lengths

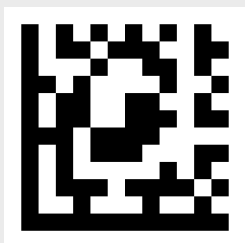


Restrict to a Length Range

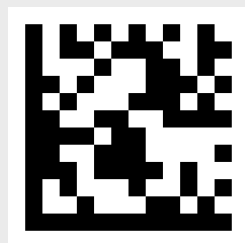


* Any Length

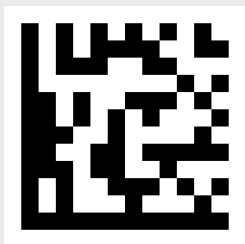
Code 93



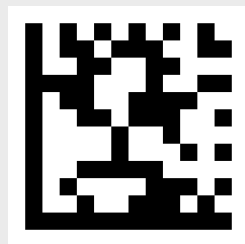
Restrict to a Single Length



Restrict to Two Different Lengths



Restrict to a Length Range



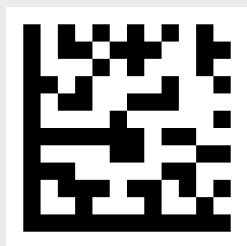
* Any Length



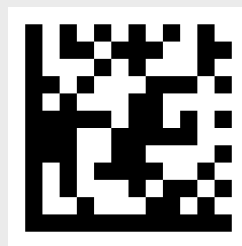


Start Setup

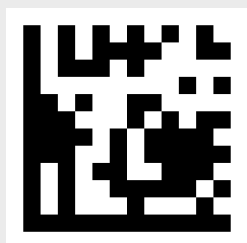
Codabar



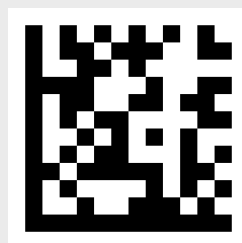
Restrict to a Single Length



Restrict to Two Different Lengths

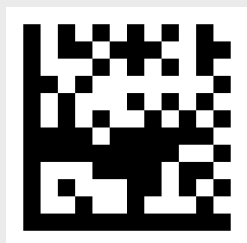


Restrict to a Length Range

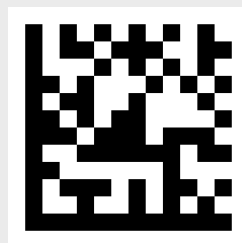


* Any Length

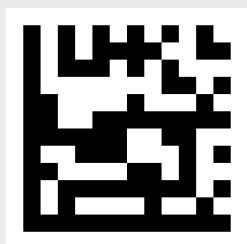
Interleaved 2 of 5



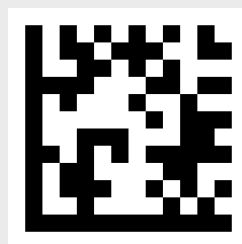
Restrict to a Single Length



Restrict to Two Different Lengths



Restrict to a Length Range



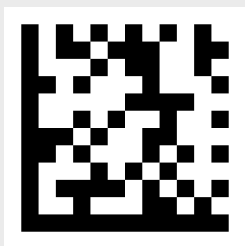
* Any Length



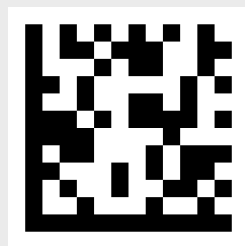


Start Setup

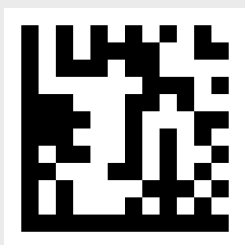
Code 11



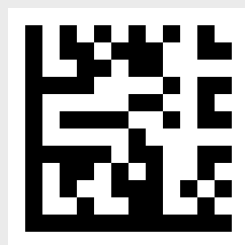
Restrict to a Single Length



Restrict to Two Different Lengths

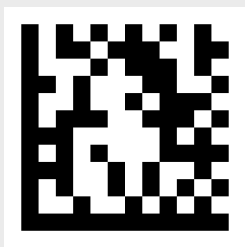


Restrict to a Length Range

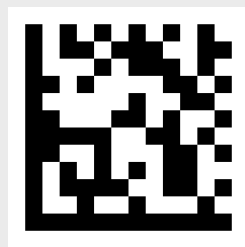


* Any Length

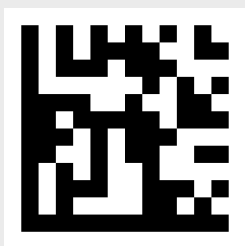
MSI Plessey



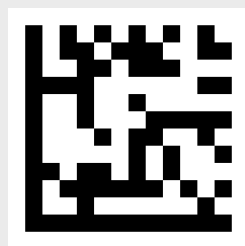
Restrict to a Single Length



Restrict to Two Different Lengths



Restrict to a Length Range



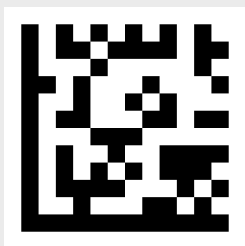
* Any Length



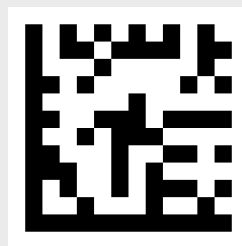


Start Setup

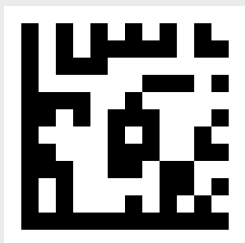
Matrix 2 of 5



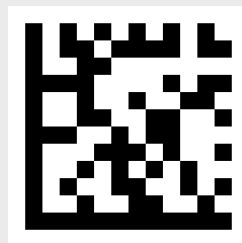
Restrict to a Single Length



Restrict to Two Different Lengths



Restrict to a Length Range



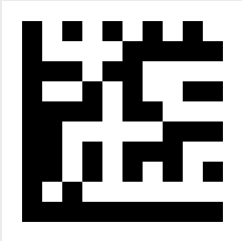
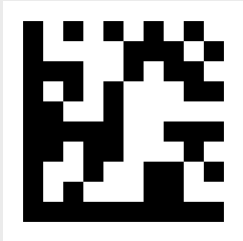
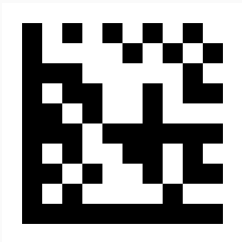
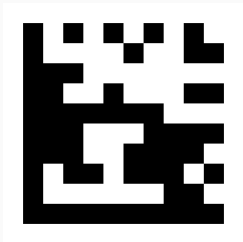
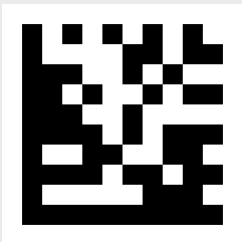
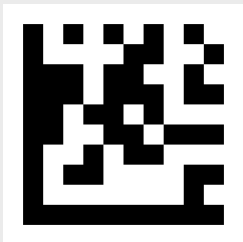
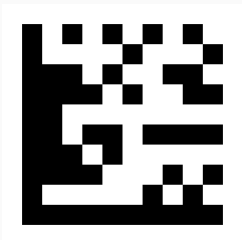
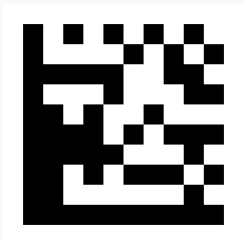
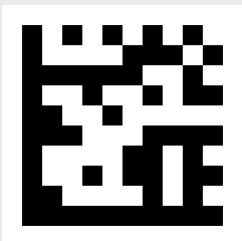
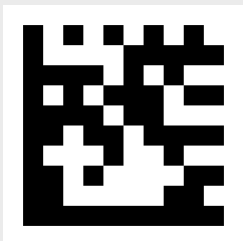
* Any Length

11.6 Engine setting barcode





Decimal Digits

Digit	Setting Barcode	Digit	Setting Barcode
0		1	
2		3	
4		5	
6		7	
8		9	

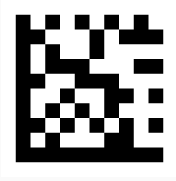




11.7 Engine Character Table

ASCII Code Table

Control Characters (Function Key Mapping)

Hex	Dec	ASCII	Ctrl Char Mode	Alt + Unicode Mode
00	0	Null	Ctrl+@	Alt + 000
01	1	Home	Ctrl+A	Alt + 001
02	2	End	Ctrl+B	Alt + 002
03	3	Up Arrow	Ctrl+C	Alt + 003
04	4	Down Arrow	Ctrl+D	Alt + 004
05	5	Left Arrow	Ctrl+E	Alt + 005
06	6	Right Arrow	Ctrl+F	Alt + 006
07	7	Null	Ctrl+G	Alt + 007
08	8		Backspace	Alt + 008
09	9		TAB	Alt + 009
0A	10	Null	Ctrl+J	Alt + 010
0B	11	Null	Ctrl+K	Alt + 011
0C	12	Null	Ctrl+L	Alt + 012
0D	13		Enter	Enter
0E	14	Page Up	Ctrl+N	Alt + 014
0F	15	Page Down	Ctrl+O	Alt + 015
10	16	F11	Ctrl+P	Alt + 016
11	17	Null	Ctrl+Q	Alt + 017
12	18	Null	Ctrl+R	Alt + 018
13	19	Null	Ctrl+S	Alt + 019
14	20	Null	Ctrl+T	Alt + 020
15	21	F12	Ctrl+U	Alt + 021
16	22	F1	Ctrl+V	Alt + 022
17	23	F2	Ctrl+W	Alt + 023
18	24	F3	Ctrl+X	Alt + 024
19	25	F4	Ctrl+Y	Alt + 025
1A	26	F5	Ctrl+Z	Alt + 026

continues on next page

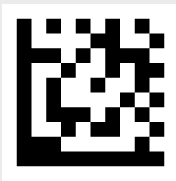




Table 4 – continued from previous page

Hex	Dec	ASCII	Ctrl Char Mode	Alt + Unicode Mode
1B	27	F6	Ctrl+[	Alt + 027
1C	28	F7	Ctrl+\	Alt + 028
1D	29	F8	Ctrl+]	Alt + 029
1E	30	F9	Ctrl+^	Alt + 030
1F	31	F10	Ctrl+_	Alt + 031

Printable Characters and Delete

Hex	Dec	ASCII	Setting Barcode
20	32	SPACE	
21	33	!	
22	34	"	
23	35	#	
24	36	\$	

continues on next page





Start Setup

Table 5 – continued from previous page

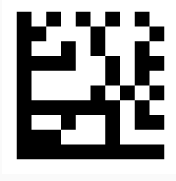
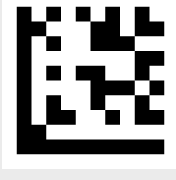
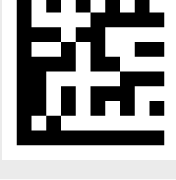
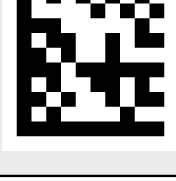
Hex	Dec	ASCII	Setting Barcode
25	37	%	
26	38	&	
27	39	'	
28	40	(	
29	41	)	
2A	42	*	
2B	43	+	

continues on next page





Table 5 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
2C	44	,	
2D	45	-	
2E	46	.	
2F	47	/	
30	48	0	
31	49	1	
32	50	2	

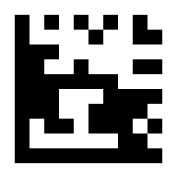
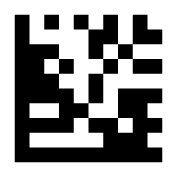
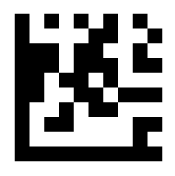
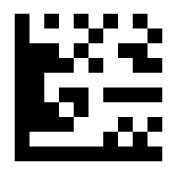
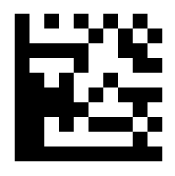
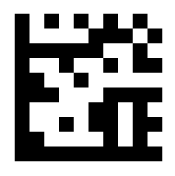
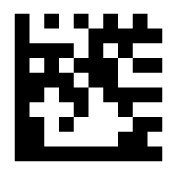
continues on next page





Start Setup

Table 5 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
33	51	3	
34	52	4	
35	53	5	
36	54	6	
37	55	7	
38	56	8	
39	57	9	

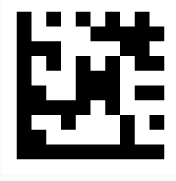
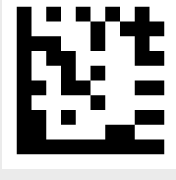
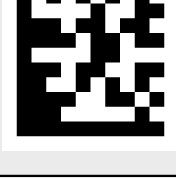
continues on next page





Start Setup

Table 5 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
3A	58	:	
3B	59	;	
3C	60	<	
3D	61	=	
3E	62	>	
3F	63	?	
40	64	@	

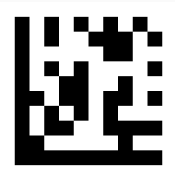
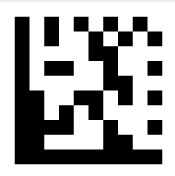
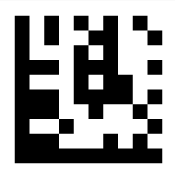
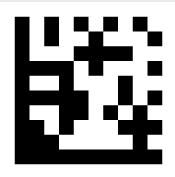
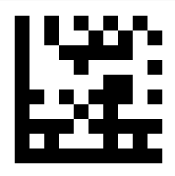
continues on next page





Start Setup

Table 5 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
41	65	A	
42	66	B	
43	67	C	
44	68	D	
45	69	E	
46	70	F	
47	71	G	

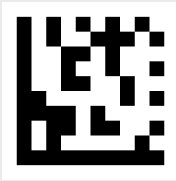
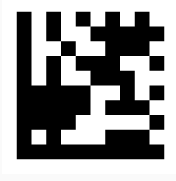
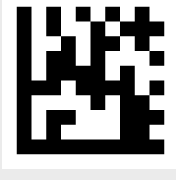
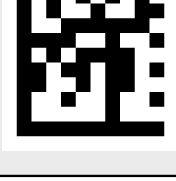
continues on next page





Start Setup

Table 5 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
48	72	H	
49	73	I	
4A	74	J	
4B	75	K	
4C	76	L	
4D	77	M	
4E	78	N	

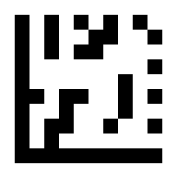
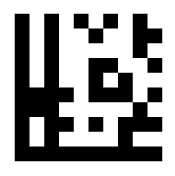
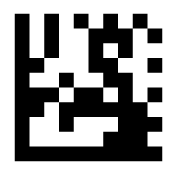
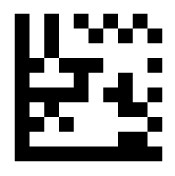
continues on next page





Start Setup

Table 5 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
4F	79	O	
50	80	P	
51	81	Q	
52	82	R	
53	83	S	
54	84	T	
55	85	U	

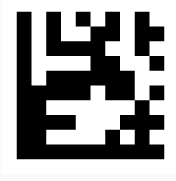
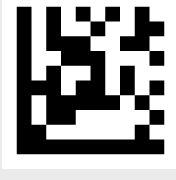
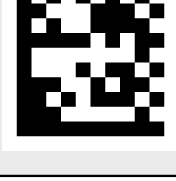
continues on next page





Start Setup

Table 5 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
56	86	V	
57	87	W	
58	88	X	
59	89	Y	
5A	90	Z	
5B	91	[	
5C	92	\	

continues on next page





Start Setup

Table 5 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
5D	93	]	
5E	94	^	
5F	95	_	
60	96	`	
61	97	a	
62	98	b	
63	99	c	

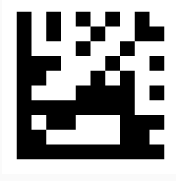
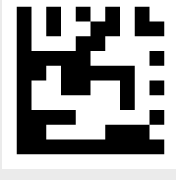
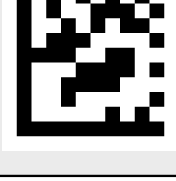
continues on next page





Start Setup

Table 5 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
64	100	d	
65	101	e	
66	102	f	
67	103	g	
68	104	h	
69	105	i	
6A	106	j	

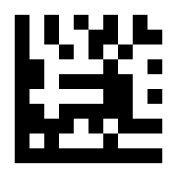
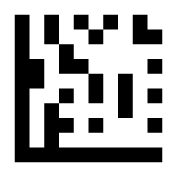
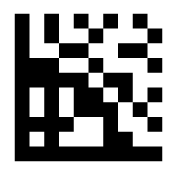
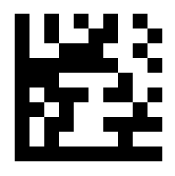
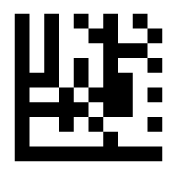
continues on next page





Start Setup

Table 5 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
6B	107	k	
6C	108	l	
6D	109	m	
6E	110	n	
6F	111	o	
70	112	p	
71	113	q	

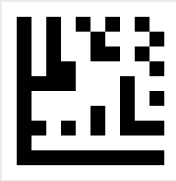
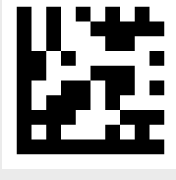
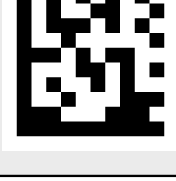
continues on next page





Start Setup

Table 5 – continued from previous page

Hex	Dec	ASCII	Setting Barcode
72	114	r	
73	115	s	
74	116	t	
75	117	u	
76	118	v	
77	119	w	
78	120	x	

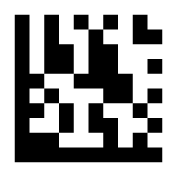
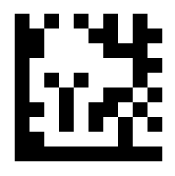
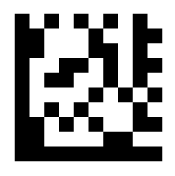
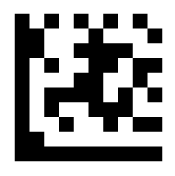
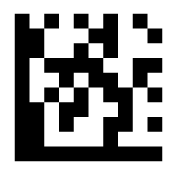
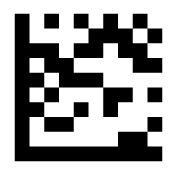
continues on next page





Start Setup

Table 5 – continued from previous page

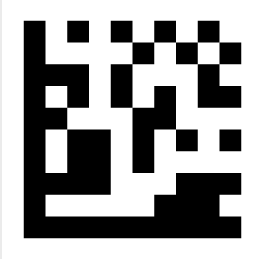
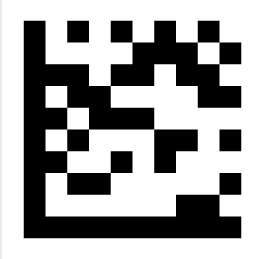
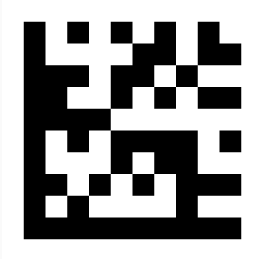
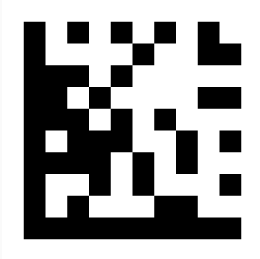
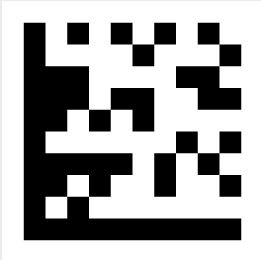
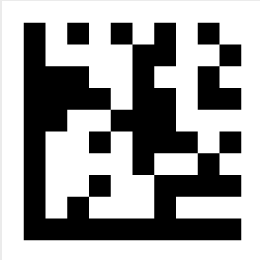
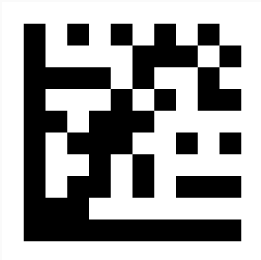
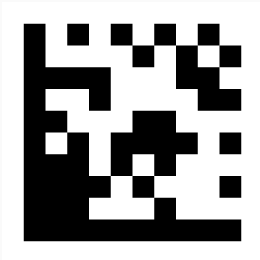
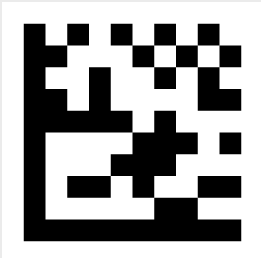
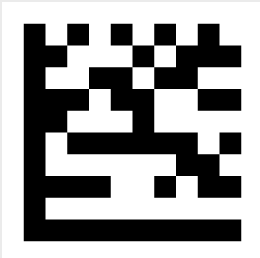
Hex	Dec	ASCII	Setting Barcode
79	121	y	
7A	122	z	
7B	123	{	
7C	124		
7D	125	}	
7E	126	~	
7F	127	Delete	





Start Setup

Function Keys

Key	Setting Barcode	Key	Setting Barcode
Insert		Delete	
Home		End	
Up Arrow		Down Arrow	
Left Arrow		Right Arrow	
Shift		ESC	

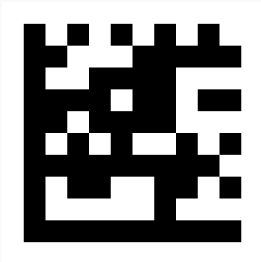
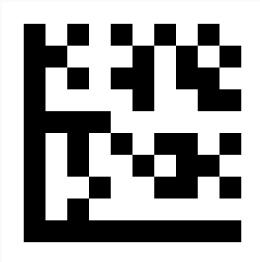
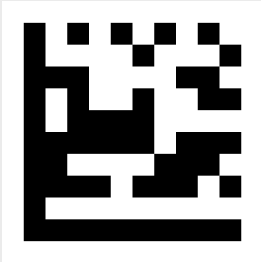
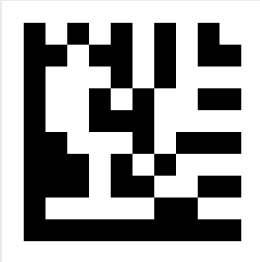
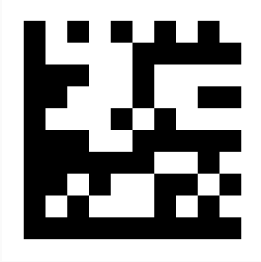
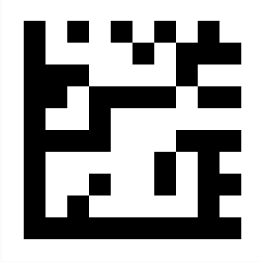
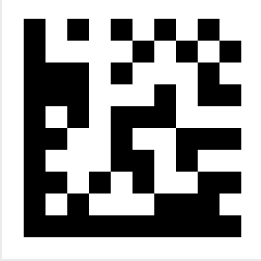
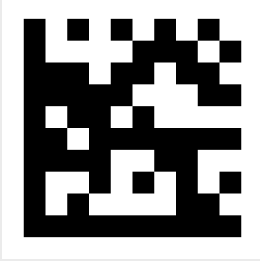
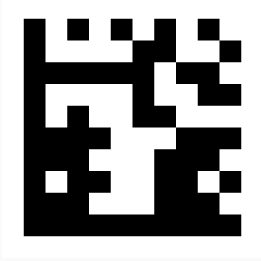
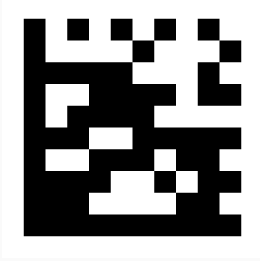
continues on next page





Start Setup

Table 6 – continued from previous page

Key	Setting Barcode	Key	Setting Barcode
Page Up		Page Down	
F1		F2	
F3		F4	
F5		F6	
F7		F8	

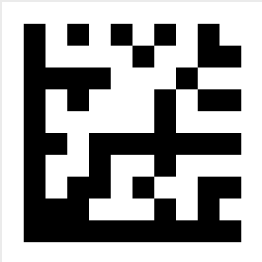
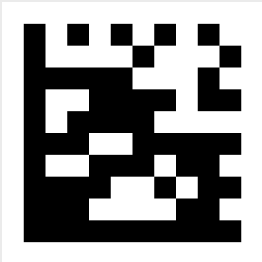
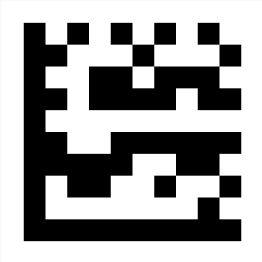
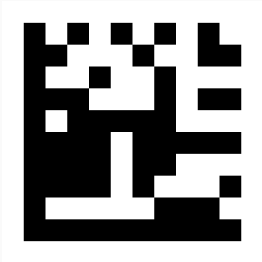
continues on next page





Start Setup

Table 6 – continued from previous page

Key	Setting Barcode	Key	Setting Barcode
F9		F10	
F11		F12	



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.