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# 1、 Product Introduction

## 1.1 Factory default

( 1 ) End : Enter(\r)。



Factory default

## 1.2 Get device information



Obtain the version number

---

## 2 Wireless settings

### 2.1 Pairing setup code

① Pair the receiver: Scan the following two barcodes in sequence. And connect the receiver to computer ;



2.4G MODE



Connecting devices

② Pair Bluetooth devices in HID mode: Scan the following two barcodes in sequence, turn on the Bluetooth device to search for RB\_Scanner\_HID connection.



HID MODE



Connect

### 2.2 BLE BLUETOOTH MODE

Pairing Bluetooth devices: Scan the following two barcodes in sequence, and perform Bluetooth search RB\_Scanner\_BLE on the software that supports BLE

Connect. Note: BLE mode needs to be output on specific software (Bluetooth serial port)



BLE MODE



Connect

### 2.3 Mode Selection



Instant upload mode



Inventory Mode



x=0012

## Over-the-distance storage mode

### ⑩ Operations in Inventory Mode



Upload all data



Upload new data (that is, data that has not been uploaded before)



Display saved data



Showing unuploaded data



Clear all data

## 2.4 Set the upload data speed delay



No delay



Delay 10ms



Delay 20ms

## 2.5 Check software version



Check the scanner software version



Check the receiving end version number

## 2.6 Set sleep time

X=1yyy(x=1000 means no sleep, sleep time calculation formula:  $yyy \times 10 = z$  seconds)



No sleep



60 seconds



120 seconds



5 minutes



10 minutes

## 2.7 USB KBW

When the scanner is connected to the host using a USB receiver, the scanner can be configured as a standard keyboard input by scanning the USB KBW setup code.



USB KBW keyboard

## 2.8 USB COM keyboard

When the scanner is connected to the host using a USB receiver, the receiver virtual serial port output mode can be changed by scanning the USB COM setup code.



USB COM

## 2.9 Output format



UTF-8



GBK

---

When the scanner recognizes it as a keyboard input device, different countries have different input characters, so you need to set different national languages. The keyboard defaults to the US language.

## 2.10 multi-language keyboards



U.S. (default)



Belgium  
(French)



Brazil (Portuguese)



Canada



Czech Republic



Denmark



Finland



France



Germany



Italy



Portugal



Spain



Türkiye-F



Türkiye-Q



U.K.



Japan



Russia



Vietnamese

## 2.11 Output forced letter case conversion

Letter conversion, when outputting barcodes with letter content, you can configure the output result to be all uppercase or all lowercase. For example, if the barcode content is: ab123dE, if you scan the "Convert to uppercase" barcode, the output result is: AB123DE; if you scan the "Convert to lowercase" barcode, the output result is: abc123de; the default case is not converted.

### Case conversion



Do not convert



Lowercase



Uppercase



Case conversion



---

# Chapter 3 Input/Output Settings

## Introduction

This chapter mainly introduces the configuration of the beep and LED of the barcode scanner when it is powered on, decoded, and triggered by the button.

## Startup Beeper

The scanner can be programmed to beep when it's started up. Default = Startup Beeper On.



(8410130.)

Startup Beeper Off



(8410131.)

\* Startup Beeper On

## Trigger Click Beeper

To hear an audible click every time the scanner button is pressed, scan the **Trigger Click Beeper On** barcode below. Default = Trigger Click Beeper Off.



(8410140.)

\*Trigger Click Beeper Off



(8410141.)

Trigger Click Beeper On

---

# Good Read and Error Read Indicators

## Good Read Beeper

The beeper may be programmed On or Off in response to a good read.  
Default = Good Read Beeper On.



**(8410010.)**  
Good Read Beeper Off



**(8410011.)**  
\* Good Read Beeper On

## Good Read Beeper Volume

The beeper volume codes modify the volume of the beep the scanner emits on a good read. Default = High.



**(8410091.)**  
Low



**(8410092.)**  
Medium



**(8410093.)**  
\* High



**(8410090.)**  
Off

---

## Good Read Beeper Frequency

The beeper frequency codes modify the frequency of the beep the scanner emits on a good read. Default = Medium.



**(8410061600.)**

Low (1600 Hz)



**(8410062400.)**

\* Medium (2400 Hz)



**(8410064200.)**

High (4200 Hz)

## Good Read Beeper Duration

The beeper duration codes modify the length of the beep the scanner emits on a good read. Default = Normal .



**(8410020.)**

\* Normal



**(8410021.)**

Short

## Error Read Beeper Frequency

The beeper frequency codes modify the frequency of the sound the scanner emits when there is a bad read or error. Default = Razz.



**(841007250.)**

\* Razz (250 Hz)



(8410073250.)  
Medium (3250 Hz)



(8410074200.)  
High (4200 Hz)

## Good Read LED

The LED indicator can be programmed **On** or **Off** in response to a good read. Default = On.



(8410081.)

\* Good Read LED On



(8410080.)  
Good Read LED Off

## Manual mode

The manual reading mode is the default reading mode. In this mode, the recognition engine starts reading the code after the user presses the trigger key, and stops reading the code after successfully outputting information or the user releases the trigger key.



## Induction mode

After setting up, there is no need to trigger, and the recognition engine immediately starts monitoring the brightness of the surrounding environment. When the scene changes, the recognition engine waits for the set stabilization time to end before starting to read the code. If the following situation does not occur, the reading engine will cycle in the above way: if the barcode is not scanned within a single reading time, the reading engine will automatically pause reading and enter the monitoring state. In the induction reading mode, the reading engine can also start reading the code after the user presses the trigger button. When the code reading is successful and outputs information or the user releases the trigger button, it will switch to induction mode for 5 seconds and continue to monitor the brightness of the surrounding environment.



## sensitivity

Self sensing sensitivity, the higher the sensitivity, the easier it is to wake up, but it is easy to accidentally wake up the device to decoding mode, default to high.





Mid(8610055.)



Low(8610056.)

### Continuous mode

After setting up, there is no need to trigger. The reading engine immediately starts reading the code. During the reading process, the user can also manually pause the reading by clicking the trigger button. When the reading is successful and outputs information or the user releases the trigger button, it will switch to continuous mode for

5 seconds



(8610028.)

### Same barcode reading delay

Sensing mode and continuous mode scanning can be used to set the time interval between barcode scanning equipment reading the next barcode after reading one barcode..



(8510060.)

No time interval



(851006500.)

(500ms)



(851006750.)

(750 ms)



(8510061000.)  
(1,000 ms)



(8510061500.)  
(1,500 ms)





---

# Chapter 4 Data Editing

## Introduction

This chapter describes how to add prefixes and suffixes.

- Default prefix = None. Default suffix = None.
- A prefix or suffix may be added or cleared from one symbology or all symbologies.
- You can add any prefix or suffix from the ASCII Conversion Chart deplus Code I.D. and AIM I.D.
- Enter prefixes and suffixes in the order in which you want them to appear on the output.
- When setting up for specific symbologies (as opposed to all symbologies), the specific symbology ID value counts as an added prefix or suffix character.
- The maximum size of a prefix or suffix configuration is 200 characters, which includes header information.

---

# Add Prefix or Suffix

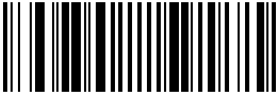
- Step 1.** Scan the **Add Prefix** or **Add Suffix** symbol
- Step 2.** Determine the 2 digit Hex value from the [Symbology Chart](#) for the symbology to which you want to apply the prefix or suffix. For example, for Code 11, Code ID is “h” and Hex ID is “68”.
- Step 3.** Scan the 2 hex digits from the [Programming Chart](#) inside the back cover of this manual or scan **9, 9** for all symbologies.
- Step 4.** Determine the hex value from the [ASCII Conversion Chart](#) , for the prefix or suffix you wish to enter.
- Step 5.** Scan the 2 digit hex value from the [Programming Chart](#) inside the back cover of this manual.
- Step 6.** Repeat Steps 4 and 5 for every prefix or suffix character.
- Step 7.** To add the Code I.D., scan **5, C, 8, 0**.  
To add AIM I.D., scan **5, C, 8, 1**.  
To add a backslash (\), scan **5, C, 5, C**.
- Step 8.** Scan **Save** to exit and save, or scan **Discard** to exit without saving.



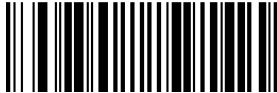
(889002.)  
Add Prefix



(888002.)  
Add Suffix



(800002.)  
Save



(800000.)  
Discard

---

## Example

### Add a Suffix to a specific symbology

To send a CR (carriage return) Suffix for code 128. only:

**Step 1.** Scan **Add Suffix**.

**Step 2.** Determine the 2 digit hex value from the [Symbology Charts](#) for code 128.

**Step 3.** Scan **6, 3** from the [Programming Chart](#) inside the back cover of this manual.

**Step 4.** Determine the hex value from the [ASCII Conversion Chart](#) , for the CR (carriage return).

**Step 5.** Scan **0, D** from the [Programming Chart](#) inside the back cover of this manual.

**Step 6.** Scan **Save**, or scan **Discard** to exit without saving.



(888002.)  
Add Suffix



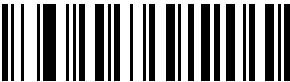
(K6K.)  
6



(KAK.)  
A



(K0K.)  
0



(SDS.)  
D



(800002.)  
Save

---

## To Add a Carriage Return Suffix to All Symbologies

Scan the following barcode if you wish to add a carriage return suffix to all symbologies at once. This action first clears all current suffixes, then programs a carriage return suffix for all symbologies.



**(890000.)**

**Add CR Suffix All Symbologies**

## To Add a Line Break Suffix to All Symbologies

Scan the following barcode if you wish to add a line break suffix to all symbologies at once. This action first clears all current suffixes, then programs a line break suffix for all symbologies.



**(888002990A.)**

**Add LF Suffix All Symbologies**

## To Add a Carriage Return &a Line Break Suffix to All Symbologies

Scan the following barcode if you wish to add a carriage return suffix and a line break suffix to all symbologies at once. This action first clears all current suffixes, then programs a carriage return suffix and a line break suffix for all symbologies.



**(888002990D0A.)**

**Add CR and LF Suffix All Symbologies**

---

## Keyboard Operation

Different operations can be performed on the keyboard through configuration during decoding output, such as automatic saving after decoding output.

Step 1: determine the hexadecimal value corresponding to the keyboard operation to be performed from the [ASCII conversion of keyboard operation](#), and Determine the 2-digit hexadecimal value of the barcode to be set

Step 2. scan the barcode of "add keyboard operation".

Step 3. Determine the sequence of keyboard operation and barcode output. If keyboard operation is in front, scan "add prefix" barcode, and then scan "add suffix" barcode.

Step 4. Scan the corresponding 4-digit hexadecimal values in the [Programming Charts](#) of this manual according to the corresponding hexadecimal values (including barcode type and corresponding keyboard operation)

Step 5. Scan "save" barcode.

Step 6, scan "end adding keyboard operation"



( 8210042 )

**Add keyboard operation**



( 8210040 )

**End adding keyboard operation**

Example: add operation that automatic preservation after decoding output for all kinds of barcodes

First, confirm the operation to be performed: save after barcode output, so suffix should be added after output barcode. Then determine the corresponding hexadecimal value according to the table in the appendix, all kinds of barcodes correspond to "9" "9", The save operation corresponds to "1" "3".

After confirmation, scan "add keyboard operation" barcode, add suffix barcode, 9, 9, 1, 3, and then scan "save" barcode and "end adding keyboard operation" barcode

(Here "9" and "9" correspond to all coding systems, and "1" and "3" correspond to decoding output and saving)

---

## Clear Prefixes or Suffixes

You can clear a single prefix or suffix, or clear all prefixes/suffixes for a symbology. If you have been entering prefixes and suffixes for single symbologies, you can use **Clear One Prefix (Suffix)** to delete a specific character from a symbology. When you **Clear All Prefixes (Suffixes)**, all the prefixes or suffixes for a symbology are deleted.

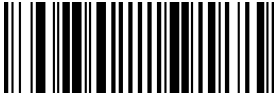
- Step 1.** Scan the **Clear One Prefix** or **Clear One Suffix** symbol.
- Step 2.** Determine the 2 digit Hex value from the [Symbology Charts](#) for the symbology from which you want to clear the prefix or suffix.
- Step 3.** Scan the 2 digit hex value from the [Programming Chart](#) inside the back cover of this manual or scan **9, 9** for all symbologies.
- Step 4.** Scan the **Save** symbol.



(889004.)  
Clear One Prefix



(888004.)  
Clear One Suffix



(800002.)  
Save

### Prefix Selections



(889002.)  
Add Prefix



(889004.)  
Clear One Prefix



(889003.)

Clear All Prefixes

## Suffix Selections



(888002.)

Add Suffix



(888004.)

Clear One Suffix



(888003.)

Clear All Suffixes

---

# Function Code Transmit

When this selection is enabled and function codes are contained within the scanned data, the scanner transmits the function code to the terminal. Default = Disable.



**(8080071.)**  
**\*Enable**



**(8080070.)**  
**\*Disable**



---

## Chapter 5 Symbologies

### Introduction

Each type of barcode has its own unique properties. The barcode scanner can be adjusted to accommodate these property changes through the configuration code in this chapter. The fewer the barcode types, the faster the barcode scanner can read. You can disable the barcode scanner to read the barcode types that will not be used to improve the performance of the barcode scanner.

---

## All Symbologies

If you want to decode all the symbologies allowable for your scanner, scan the **All Symbologies On** barcode. If on the other hand, you want to decode only a particular symbology, scan **All Symbologies Off** followed by the **On** barcode for that particular symbology.



(9990011.)

All Symbologies On



(9990010.)

All Symbologies Off

Note: When **All Symbologies On** is scanned, 2D Postal Codes are not enabled. 2D Postal Codes must be enabled separately.

## Message Length Description

You are able to set the valid reading length of some of the barcode symbologies. If the data length of the scanned barcode doesn't match the valid reading length, the scanner will issue an error tone. You may wish to set the same value for minimum and maximum length to force the scanner to read fixed length barcode data. This helps reduce the chances of a misread.

**EXAMPLE:** Decode only those barcodes with a count of 6-10 characters.  
Min. length = 06 Max. length = 10

**Step 1.** Select the barcode symbology to set the maximum reading length or the minimum reading length, scan the **Minimum Message Length** barcode in its catalog, and scan the number "6" and "Save" barcodes from the [Programming Chart](#) .

**Step 2.** Scan the **Maximum Message Length** barcode and scan the numbers **1, 0** barcode and **Save** barcode from the [Programming Chart](#) . The above process sets the selected barcode symbology small reading length to 6 and the maximum reading length to 10

**EXAMPLE:** Decode only those barcodes with a count of 13 characters.  
Min. length = 13 Max. length = 13

---

## 1D Barcode

If the bar code scanning device needs to decode all the one-dimensional code systems, please scan the bar code of "All 1D Barcode on". Only solve specific code system, please scan " All 1D Barcode off" .



(9950040.)

All 1D Barcode on



(9950041.)

All 1D Barcode off

## 2D Barcode

If the bar code scanning device needs to decode all the two-dimensional code systems, please scan the bar code of "All 2D Barcode on". Only solve specific code system, please scan " All 2D Barcode off"



(9950070.)

All 2D Barcode on



(9950071.)

All 2D Barcode off

---

# Codabar



(900000.)

Default All Codabar Settings

# On/Off



(9000031.)

\* On



(9000030.)

Off

# Start/Stop Characters

Start/Stop characters identify the leading and trailing ends of the barcode. You may either transmit, or not transmit Start/Stop characters. Default = Don't Transmit.



(9000061.)

Transmit



(9000060.)

\* Don't Transmit

# Check Character

**No Check Character** indicates that the scanner reads and transmits barcode data with or without a check character.

When Check Character is set to **Validate and Transmit**, the scanner will only read Codabar barcodes printed with a check character, and will transmit this character at the end of the scanned data.

When Check Character is set to **Validate**, but **Don't Transmit**, the unit will only read Codabar barcodes printed with a check character, but will not transmit the check character with the scanned data. Default = No Check Character.



**(9000010.)**

**\* No Check Character**



**(9000011.)**

**Validate but Don't Transmit**



**(9000012.)**

**Validate and Transmit**

---

## Concatenation

Codabar supports symbol concatenation. When you enable concatenation, the scanner looks for a Codabar symbol having a “D” start character, adjacent to a symbol having a “D” stop character. In this case the two messages are concatenated into one with the “D” characters omitted.



Select Require to prevent the scanner from decoding a single “D” Codabar symbol without its companion. This selection has no effect on Codabar symbols without Stop/Start D characters.



---

# Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 2-60. Minimum Default = 4, Maximum Default = 60.



**(900005.)**

**Minimum Message Length**



**(900004.)**

**Maximum Message Length**

---

# Code 39

< Default All Code 39 Settings >



(901000.)

Default All Code 39 Settings

## Code 39 On/Off



(9010011.)

\* On



(9010010.)

Off

## Start/ Stop Characters

Start/Stop characters identify the leading and trailing ends of the barcode. You may either transmit, or not transmit Start/Stop characters. Default = Don't Transmit.



(9010091.)

Transmit



(9010090.)

\* Don't Transmit



---

## Check Character

**No Check Character** indicates that the scanner reads and transmits barcode data with or without a check character.

When Check Character is set to **Validate, but Don't Transmit**, the unit only reads Code 39 barcodes printed with a check character, but will not transmit the check character with the scanned data.

When Check Character is set to **Validate and Transmit**, the scanner only reads Code 39 barcodes printed with a check character, and will transmit this character at the end of the scanned data. Default = No Check Character.



(9010040.)

\* No Check Character



(9010041.)

Validate, but Don't Transmit



(9010042.)

Validate and Transmit

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 0-48. Minimum Default = 0, Maximum Default = 48.



(901008.)

Minimum Message Length



(901007.)

Maximum Message Length

---

## Code 39 Append

This function allows the scanner to append the data from several Code 39 barcodes together before transmitting them to the host computer. When the scanner encounters a Code 39 barcode with the append trigger character(s), it buffers Code 39 barcodes until it reads a Code 39 barcode that does not have the append trigger. The data is then transmitted in the order in which the barcodes were read (FIFO). Default = Off.



(9010021.)

On



(9010020.)

\* Off

## Example

After scanning **on** barcode, scan the three bar codes below in order. The barcode scanner does not output any data until the last bar code is scanned. After scanning the **ESS** barcode, the **SUCCESS** word is output correctly.



SU



CC



ESS

---

## Code 32 Pharmaceutical (PARAF)

Code 32 Pharmaceutical is a form of the Code 39 symbology used by Italian pharmacies. This symbology is also known as PARAF.

When you configure code32, you need to turn on code39 before you configure it.



(9010051.)

On



(9010050.)

\* Off

# FULL ASCII

If Full ASCII Code 39 decoding is enabled, certain character pairs within the barcode symbol will be interpreted as a single character. For example: \$V will be decoded as the ASCII character SYN, and /C will be decoded as the ASCII character #. Default = Off.

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

Character pairs /M and /N decode as a minus sign and period respectively. Character pairs /P through /Y decode as 0 through 9.



(9010031.)  
FULL ASCII On



(9010030.)  
\* FULL ASCII Off

---

## Interleaved 2 of 5

< Default All Interleaved 2 of 5 Settings >



(902000.)

Default All Interleaved 2 of 5 Settings

## On/Off



(9020021.)

\* On



(9020020.)

Off

## Check Digit

**No Check Digit** indicates that the scanner reads and transmits barcode data with or without a check digit.

When Check Digit is set to **Validate, but Don't Transmit**, the unit only reads Interleaved 2 of 5 barcodes printed with a check digit, but will not transmit the check digit with the scanned data.

When Check Digit is set to **Validate and Transmit**, the scanner only reads Interleaved 2 of 5 barcodes printed with a check digit, and will transmit this digit at the end of the scanned data. Default = No Check Digit.



(9020010.)

\* No Check Digit



---

**(9020011.)**

**Validate, but Don't Transmit**



**(9020012.)**

**Validate and Transmit**

---

# Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 2-80. Minimum Default = 4, Maximum Default = 80.



(902004.)

**Minimum Message Length**



(902003.)

**Maximum Message Length**

---

# NEC 2 of 5

< Default All NEC 2 of 5 Settings >



(903000.)

Default All NEC 2 of 5 Settings

## On/Off



(9030011.)

\* On



(9030010.)

Off

## Check Digit

**No Check Digit** indicates that the scanner reads and transmits barcode data with or without a check digit.

When Check Digit is set to **Validate, but Don't Transmit**, the unit only reads NEC 2 of 5 barcodes printed with a check digit, but will not transmit the check digit with the scanned data.

When Check Digit is set to **Validate and Transmit**, the scanner only reads NEC 2 of 5 barcodes printed with a check digit, and will transmit this digit at the end of the scanned data. Default = No Check Digit



(9030020.)

\* No Check Digit





**(9030021.)**

**Validate, but Don't Transmit**



**(9030022.)**

**Validate and Transmit**

---

# Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 2-80. Minimum Default = 4, Maximum Default = 80.



**(903004.)**

**Minimum Message Length**



**(903003.)**

**Maximum Message Length**

---

# Code 93

< Default All Code 93 Settings >



(904000.)

Default All Code 93 Settings

## On/Off



(9040021.)

\* On



(9040020.)

Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 0-80. Minimum Default = 0, Maximum Default = 80.



(904004.)

Minimum Message Length



(904003.)

Maximum Message Length

---

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

<Default All Straight 2 of 5 Industrial Settings>



(905000.)

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

## On/Off



(9050011.)

On



(9050010.)

\* Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-48. Minimum Default = 4, Maximum Default = 48.



(905003.)

Minimum Message Length



(905002.)

Maximum Message Length

---

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

<Default All Straight 2 of 5 IATA Settings>



(906000.)

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

## On/Off



(9060011.)

On



(9060010.)

Off

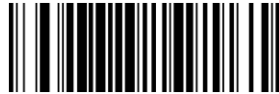
## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-48. Minimum Default = 4, Maximum Default = 48.



(9060003.)

Minimum Message Length



(9060002.)

Maximum Message Length

---

## Matrix 2 of 5

<Default All Matrix 2 of 5 Settings>



(907000.)

Default All Matrix 2 of 5 Settings

## On/Off



(9070011.)

On



(9070010.)

\* Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-80. Minimum Default = 4, Maximum Default = 80.



(907003.)

Minimum Message Length



(907002.)

Maximum Message Length

---

# Check

Scan the barcode below to enable or disable the check function of matrix25.



**(9070051.)**

**Enable Check Function**



**(9070050.)**

**Disable Check Function**

---

# Code 11

<Default All Settings>



(908000.)

Default All Code 11 Settings

## On/Off



(9080021.)

On



(9080020.)

\* Off

## Check Digits Required

This option sets whether 1 or 2 check digits are required with Code 11 barcodes.  
Default = Two Check Digits.



(3110280.)

One Check Digit



(3110281.)

\* Two Check Digits



---

# Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-80. Minimum Default = 4, Maximum Default = 80.



**(908004.)**

**Minimum Message Length**



**(908003.)**

**Maximum Message Length**

---

**Code 128**

<Default All Code 128 Settings>



(909000.)

Default All Code 128 Settings

**On/Off**



(9090011.)

\* On



(9090010.)

Off

**ISBT 128 Concatenation**



(9020051.)

ISBT 128 On



(9020050.)

\*ISBT 128 Off

---

# Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 0-80. Minimum Default = 0, Maximum Default = 80.



(909003.)

**Minimum Message Length**



(909002.)

**Maximum Message Length**

---

# GS1-128

<Default All GS1-128 Settings>



(910000.)

Default All GS1-128 Settings

## On/Off



(9100011.)

\* On



(9100010.)

Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-80. Minimum Default = 1, Maximum Default = 80.



(910003.)

Minimum Message Length



(910002.)

Maximum Message Length

---

# Telepen

<Default All Telepen Settings>



(911000.)

Default All Telepen Settings

## On/Off



(9110011.)

On



(9110010.)

\* Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-60. Minimum Default = 1, Maximum Default = 60.



(911003.)

Minimum Message Length



(911002.)

Maximum Message Length

---

# UPC-A

<Default All UPC-A Settings>



(912000.)

Default All UPC-A Settings



(9120031.)

\* On



(9120030.)

Off

## Check Digit

This selection allows you to specify whether the check digit should be transmitted at the end of the scanned data or not. Default = On.



(9120041.)

\* On



(9120040.)

Off

---

# Number System

The numeric system digit of a U.P.C. symbol is normally transmitted at the beginning of the scanned data, but the unit can be programmed so it will not transmit it. Default = On.



(9120051.)

\* On



(9120050.)

Off

# Addenda

This selection adds 2 or 5 digits to the end of all scanned UPC-A data. Default = Off for both 2 Digit and 5 Digit Addenda.



(9120011.)

2 Digit Addenda On



(9120010.)

\* 2 Digit Addenda Off



(9120021.)

5 Digit Addenda On



(9120020.)

\* 5 Digit Addenda Off

---

## Addenda Required

When **Required** is scanned, the scanner will only read UPC-A barcodes that have addenda. You must then turn on a 2 or 5 digit addenda. Default = Not Required.



(9120061.)

Required



(9120060.)

\* Not Required

## Addenda Separator

When this feature is on, there is a space between the data from the barcode and the data from the addenda. When turned off, there is no space. Default = On.



(9120071.)

\* On



(9120070.)

Off

## Note

Scan the barcode below to convert UPC-A to EAN\_13 or not.



(9120111.)

Convert



(9120110.)

Not convert



---

# UPC-E0

<Default All UPC-E Settings>



(914000.)

Default All UPC-E0 Settings

# On/Off

Most U.P.C. barcodes lead with the 0 number system. To read these codes, use the \***UPC-E0 On** selection. If you need to read codes that lead with the 1 number system, use [UPC-E1](#). Default = On.



(9140101.)

\* UPC-E0 On



(9140100.)

UPC-E0 Off

---

## Expand

UPC-E Expand expands the UPC-E code to the 12 digit, UPC-A format.  
Default = Off.



(9140021.)

On



(9140020.)

\* Off

## Addenda Required

When **Required** is scanned, the scanner will only read UPC-E barcodes that have addenda. Default = Not Required.



(9140031.)

Required



(9140030.)

\* Not Required

## Addenda Separator

When this feature is On, there is a space between the data from the barcode and the data from the addenda. When turned Off, there is no space. Default = On



(9140041.)

\* On



(9140040.)  
Off

## Check Digit

Check Digit specifies whether the check digit should be transmitted at the end of the scanned data or not. Default = On.



(9140051.)

\*On



(9140050.)  
Off

---

# Number System

The numeric system digit of a U.P.C. symbol is normally transmitted at the beginning of the scanned data, but the unit can be programmed so it will not transmit it. To prevent transmission, scan **Off**. Default = On.



(9140061.)

\* On



(9140060.)

Off

# Addenda

This selection adds 2 or 5 digits to the end of all scanned UPC-E data. Default = Off for both 2 Digit and 5 Digit Addenda.



(9140071.)

2 Digit Addenda On



(9140070.)

\* 2 Digit Addenda Off



(9140081.)

5 Digit Addenda On



(9140080.)

\* 5 Digit Addenda Off

---

# UPC-E1

Most U.P.C. barcodes lead with the 0 number system. For these codes, use UPC-E0. If you need to read codes that lead with the 1 number system, use the **UPC-E1 On** selection. Default = Off.



(9140091.)  
UPC-E1 On



(9140090.)  
\* UPC-E1 Off

# EAN/JAN-13

<Default All EAN/JAN Settings>



(915000.)  
Default All EAN/JAN-13 Settings

# On/Off



(9150011.)  
\*On



(9150010.)  
Off

Note: If you want to convert UPC-A barcodes to EAN-13 format, scan the **UPC-A Off** barcode.

---

## Check Digit

This selection allows you to specify whether the check digit should be transmitted at the end of the scanned data or not. Default = On.



(9150021.)

\* On



(9150020.)

Off

## Addenda

This selection adds 2 or 5 digits to the end of all scanned EAN/JAN-13 data. Default = Off for both 2 Digit and 5 Digit Addenda.



(9150031.)

2 Digit Addenda On



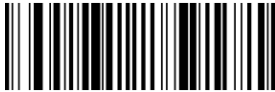
(9150030.)

\* 2 Digit Addenda Off



(9150041.)

5 Digit Addenda On



(9150040.)

\* 5 Digit Addenda Off

---

## Addenda Required

When **Required** is scanned, the scanner will only read EAN/JAN-13 barcodes that have addenda. Default = Not Required.



(9150051.)  
Required



(9150050.)  
\* Not Required

## Addenda Separator

When this feature is **On**, there is a space between the data from the barcode and the data from the addenda. When turned **Off**, there is no space. Default = On.



(9150061.)  
\* On



(9150060.)  
Off

## ISBN Translate

When **On** is scanned, EAN-13 Bookland symbols are translated into their equivalent ISBN number format. Default = Off.



(9150071.)  
On



(9150070.)  
\* Off

---

# EAN/JAN-8

<Default All EAN/JAN-8 Settings>



(916000.)

Default All EAN/JAN-8 Settings

## On/Off



(9160011.)

\* On



(9160010.)

Off

## Check Digit

This selection allows you to specify whether the check digit should be transmitted at the end of the scanned data or not. Default = On.



(9160021.)

\* On



(9160020.)

Off

## Addenda

This selection adds 2 or 5 digits to the end of all scanned EAN/JAN-8 data. Default = Off for both 2 Digit and 5 Digit *Addenda*.





(9160031.)

2 Digit Addenda On



(9160030.)

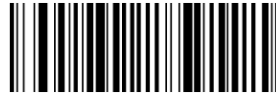
2 Digit Addenda Off

\*



(9160041.)

5 Digit Addenda On



(9160040.)

5 Digit Addenda Off

\*

## Addenda Required

When **Required** is scanned, the scanner will only read EAN/JAN-8 barcodes that have addenda. Default = Not Required.



(9160051.)

Required



(9160050.)

\* Not Required

## Addenda Separator

---

When this feature is **On**, there is a space between the data from the barcode and the data from the addenda. When turned **Off**, there is no space. Default = **On**.



(9160061.)

\* On



(9160060.)

Off

---

**MSI**

<Default All MSI Settings>



(917000.)

Default All MSI Settings

**On/Off**



(9170011.)

On



(9170010.)

\* Off

---

## Check Characte

MSI barcodes use different types of check characters. You can configure the barcode scanner to read the MSI barcode using the check character. Default = **Validate MOD 10, but Don't Transmit**

When Check Character is set to **Validate MOD 10 and Transmit**, the scanner will only read MSI barcodes printed with the specified type check character(s), and will transmit the character(s) at the end of the scanned data.

When Check Character is set to **Validate MOD 10, but Don't Transmit**, the unit will only read MSI barcodes printed with the specified type check character(s), but will not transmit the check character(s) with the scanned data.



(9170020.)

\* Validate MOD 10, but Don't Transmit



(9170021.)

Validate MOD 10 and Transmit



(9170026.)

Disable MSI Check Characters

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 4-48. Minimum Default = 4, Maximum Default = 48.



(917004.)

Minimum Message Length



(917003.)

Maximum Message Length

---

# GS1 DataBar Omnidirectional

< Default All GS1 DataBar Omnidirectional Settings >



(918000.)

Default All GS1 DataBar Omnidirectional Settings

## On/Off



(9180011.)

\* On



(9180010.)

Off

# GS1 DataBar Limited

< Default All GS1 DataBar Limited Settings >



(919000.)

Default All GS1 DataBar Limited Settings

## On/Off



(9190011.)

\* On



(9190010.)

Off

---

# GS1 DataBar Expanded

< Default All GS1 DataBar Expanded Settings >



(920000.)

Default All GS1 DataBar Expanded Settings

## On/Off



(9200011.)

\* On



(9200010.)

Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 4-74. Minimum Default = 4, Maximum Default = 74.



(920003.)

Minimum Message Length



(920002.)

Maximum Message Length

---

# PDF417

< Default All PDF417 Settings >



(924000.)

Default All PD417 Settings

## On/Off



(9240011.)

\* On



(9240010)

Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-2750. Minimum Default = 1, Maximum Default = 2750.



(924003.)

Minimum Message Length



(924002.)

Maximum Message Length

---

# QR Code

< Default All QR Code Settings >



(928000.)

Default All QR Code Settings

# On/Off

This selection applies to both QR Code and Micro QR Code.



(9280011.)

\* On



(9280010.)

Off

# Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-7089. Minimum Default = 1, Maximum Default = 7089.



(928003.)

Minimum Message Length



(928002.)

Maximum Message Length



---

## Data Matrix

< Default All Data Matrix Settings >



(930000.)

Default All Data Matrix Settings

## On/Off



(9300011.)

\* On



(9300010.)

Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-3116. Minimum Default = 1, Maximum Default = 3116.



(930002.)

Minimum Message Length



(930003.)

Maximum Message Length

---

# Aztec Code

< Default All Aztec Code Settings >



(931000.)

Default All Aztec Code Settings

## On/Off



(9310011.)

\* On



(9310010.)

off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-3832. Minimum Default = 1, Maximum Default = 3832.



(931003.)

Minimum Message Length



(931002.)

Maximum Message Length

---

# China Post (Hong Kong 2 of 5)

<Default All China Post (Hong Kong 2 of 5) Settings>



(936000.)

Default All China Post (Hong Kong 2 of 5)Settings

## On/Off



(9360011.)

On



(9360010.)

\* Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 2-80. Minimum Default = 4, Maximum Default = 80.



(936003.)

Minimum Message Length



(936002.)

Maximum Message Length

---

## Korea Post

<Default All Korea Post Settings>



(937000.)

Default All Korea Post Settings

## On/Off



(9370011.)

On



(9370010.)

\* Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 2-80. Minimum Default = 4, Maximum Default = 48.



(937003.)

Minimum Message Length



(937002.)

Maximum Message Length

---

## Check Digit

This selection allows you to specify whether the check digit should be transmitted at the end of the scanned data. Default = Don't Transmit.



(9370041.)

On



(9370040.)

\* Off

## Han Xin Code

<Default All Han Xin Code Settings>



(932000.)

Default All Han Xin Code Settings

## On/Off



(9320011.)

On



(9320010.)

\* Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-1000. Minimum Default = 1, Maximum Default = 1000.



**(932003.)**

**Minimum Message Length**



**(932002.)**

**Maximum Message Length**

---

## Maxi code

<default all maxi code settings>



(929000.)

## On/Off



(9290011.)

On



(9290010.)

Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-150. Minimum Default = 1, Maximum Default = 150.



(929003.)

Minimum Message Length



(929002.)

Maximum Message Length

---

## Micropdf

<default all micropdf settings>



(925000.)

## On/Off



(9250011.)

On



(9250010.)

Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-366. Minimum Default = 1, Maximum Default = 366.



(925003.)

Minimum Message Length



(925002.)

Maximum Message Length

## Composites



---

<default all composites settings>



(926000.)

## On/Off



(9260011.)

On



(9260010.)

Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-2435. Minimum Default = 1, Maximum Default = 2435.



(926004.)

Minimum Message Length



(926003.)

Maximum Message Length

---

# Codablock A

<default all composites settings>



(922000.)

## On/Off



(9220011.)

On



(9220010.)

Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-600. Minimum Default = 1, Maximum Default = 600.



(922003.)

Minimum Message Length



(922002.)

Maximum Message Length

---

# Codablock F

<default all composites settings>



(923000.)

## On/Off



(9230011.)

On



(9230010.)

Off

## Message Length

Scan the barcodes below to change the message length. Refer to [Message Length Description](#) for additional information. Minimum and Maximum lengths = 1-2048. Minimum Default = 1, Maximum Default = 2048.



(923003.)

Minimum Message Length



(923002.)

Maximum Message Length

---

## Disable GS1 Data Matrix

Scan the barcode to disable GS1 Data Matrix



8870010.

On



8870011.

Off

---

# Chapter 6 Utilities

## Show Software Revision

Scan the barcode below to output the current software revision, unit serial number, and other product information.



**(809004?.)**

**Show Revision**

---

## Chapter 7 Common Problems And Solutions

**Problem:** The barcode scanner does not work.

possible reason :

1. The barcode scanner is not powered, check the power of the equipment.
2. If you are using an incorrect cable, use the cable that was originally configured.
3. The cable interface is loose and reconnected.
4. Check if the button is normal.

**Problem:** The barcode scanner scans normally, but the data output is incorrect.

possible reason :

1. The cable interface is loose and reconnected.
2. Barcode scanner may not be configured to display the correct terminal.
3. If you are using a USB to RS232 cable, if the data output is garbled, it may be that the data reception speed of the device does not match the output speed of the barcode scanner.

**Problem:** Barcode scanner does not decode some barcodes.

possible reason :

1. The barcode is defective. Try to scan the same type of test barcode to see if it can be interpreted.
2. The distance between the barcode scanner and the barcode is not suitable. Please move closer or move away the barcode.
3. For barcodes with poor print quality, the preferred reading distance is 5-10 cm.
4. Confirm that your device is enabled for this barcode type.

**Problem:** Other conditions cannot be decoded.

possible reason :

1. Turn off the device power; properly connect the device to the barcode scanner; turn on the device and test it.
2. If the problem still cannot be solved, please contact the dealer or the manufacturer.

---

## Chapter 8 Maintenance And Customer Service

### Maintenance

1. Stains and dust on the scanning window can sometimes affect the normal operation of the barcode scanner. When cleaning, use a good quality tissue to wipe gently, or use a soft cloth to clean.  
If you use a paper with poor paper quality for a long time, it will damage the surface finish of the window and affect the reading effect of the barcode scanner.
2. The outer shell of the barcode scanner can be wiped with a soft, clean cloth. If necessary, add a small amount of detergent to the water, wipe it with a soft cloth and rub it.
3. Do not spray any liquid on the window.
4. The scanning window must be kept clean and the supplier is not liable for damage caused by improper maintenance.

### Customer Service

If you need help installing or troubleshooting a device, please contact us

# Reference Charts

## Symbology Charts

### Linear Symbologies

Symbology	AIM			
	ID	Possible Modifiers ( m )	ID	Hex
All Symbologies				<b>99</b>
Codabar	]Fm	0-1	a	<b>61</b>
Code 11	]H3		h	<b>68</b>
Code 128	]Cm	0, 1, 2, 4	j	<b>6A</b>
Code 32 Pharmaceutical (PARAF)	]X0		<	<b>3C</b>
Code 39 (supports Full ASCII mode)	]Am	0, 1, 3, 4, 5,7	b	<b>62</b>
TCIF Linked Code 39 (TLC39)	]L2		T	<b>54</b>
Code 93 and 93i	]Gm	0-9, A-Z, a-m	i	<b>69</b>
EAN	]Em	0, 1, 3, 4	d	<b>64</b>
EAN-13 (including Bookland EAN)	]E0		d	<b>64</b>
EAN-13 with Add-On	]E3		d	<b>64</b>
EAN-13 with Extended Coupon	]E3		d	<b>64</b>
EAN-8	]E4		D	<b>44</b>
EAN-8 with Add-On	]E3		D	<b>44</b>



Symbology	AIM			
	ID	Possible Modifiers ( m )	ID	Hex
<b>GS1</b>				
<b>GS1 DataBar</b>	]em	0	y	79
<b>GS1 DataBar Limited</b>	]em		{	7B
<b>GS1 DataBar Expanded</b>	]em		}	7D
<b>GS1-128</b>	]C1		l	49
<b>2 of 5</b>				
<b>China Post (Hong Kong 2 of 5)</b>	]X0		Q	51
<b>Interleaved 2 of 5</b>	]lm	0, 1, 3	e	65
<b>Matrix 2 of 5</b>	]X0		m	6D
<b>NEC 2 of 5</b>	]X0		Y	59
<b>Straight 2 of 5 IATA</b>	]Rm	0, 1, 3	f	66
<b>Straight 2 of 5 Industrial</b>	]S0		f	66
<b>MSI</b>	]Mm	0, 1	g	67
<b>Telepen</b>	]Bm		t	74
<b>UPC</b>		0, 1, 2, 3, 8,		
<b>UPC-A</b>	]E0		c	63
<b>UPC-A with Add-On</b>	]E3		c	63
<b>UPC-A with Extended Coupon</b>	]E3		c	63
<b>UPC-E</b>	]E0		E	45
<b>UPC-E with Add-On</b>	]E3		E	45
<b>UPC-E1</b>	]X0		E	45
<b>Add Code ID</b>				5C 80
<b>Add AIM Code ID</b>				5C 81
<b>Add Backslash</b>				5C 5C
<b>Batch Mode Quantity</b>			5	35

## 2D Symbolologies

Symbology	AIM			
	ID	Possible Modifiers ( m )	ID	Hex
All Symbolologies				99
Aztec Code	]zm	0-9, A-C	z	7A
Chinese Sensible Code (Han Xin Code)	]X0		H	48
Codablock A	]O6	0, 1, 4, 5,	V	56
Codablock F	]Om	0, 1, 64, 5,	q	71
Code 49	]Tm	0, 1, 2, 4	l	6C
Data Matrix	]dm	0-6	w	77
GS1	]em	0-3	y	79
GS1 Composite	]em	0-3	y	79
GS1 DataBar Omnidirecti	]em	0-3	y	79
MaxiCode	]Um	0-3	x	78
PDF417	]Lm	0-2	r	72
MicroPDF417	]Lm	0-5	R	52
QR Code	]Qm	0-6	s	73
Micro QR Code	]Qm		s	73

## Postal Symbologies

Symbology	AIM			
	ID	Possible Modifiers ( m )	ID	Hex
All Symbologies				99
Australian Post	]X0		A	41
British Post	]X0		B	42
Canadian Post	]X0		C	43

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

# ASCII Conversion Chart

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

25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	( (Right / Closing Parenthesis)
29	41	) (Right / Closing Parenthesis)
2a	42	* (Asterisk)
2b	43	+ (Plus)
2c	44	, (Comma)
2d	45	- (Minus / Dash)
2e	46	. (Dot)
2f	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3a	58	: (Colon)
3b	59	⋮ (Semi-colon)
3c	60	< (Less Than)
3d	61	= (Equal Sign)
3e	62	> (Greater Than)
3f	63	? (Question Mark)
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4a	74	J
4b	75	K
4c	76	L
4d	77	M
4e	78	N
4f	79	O

50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5a	90	Z
5b	91	[ (Left / Opening Bracket)
5c	92	\ (Back Slash)
5d	93	] (Right / Closing Bracket)
5e	94	^ (Caret / Circumflex)
5f	95	_ (Underscore)
60	96	' (Grave Accent)
61	97	a
62	98	b
63	99	c
64	100	d
65	101	e
66	102	f
67	103	g
68	104	h
69	105	i
6a	106	j
6b	107	k
6c	108	l
6d	109	m
6e	110	n
6f	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7a	122	z
7b	123	{ (Left/ Opening Brace)

---

7c	124	(Vertical Bar)
7d	125	} (Right/Closing Brace)
7e	126	~ (Tilde)
7f	127	DEL (Delete)

**Sample Symbols**

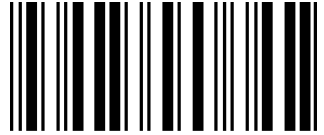
**UPC-A**



---

01234567890

**Interleaved 2 of 5**



12345678

Code 128



12345678

**Straight 2 of 5 Industrial**



123456

**Matrix 2 of 5**



6543210



---

**Code 93**



123456-9\$

**Straight 2 of 5 Industrial**



123456

**Matrix 2 of 5**



6543210

**GS1DataBar**

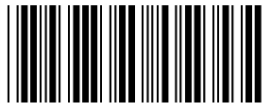


**PDF417**



12345678

**Codabar**



BC321

**QRCode**



Numbers

**Data Matrix**



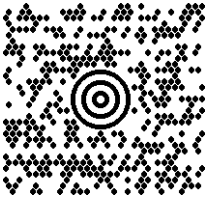
TestSymbol

**Aztec**



12345678

**MaxiCode**



Test Message

**Micro PDF417**



Test Message

---

# Programming Charts



(K0K.)  
0



(K2K.)  
2



(K4K.)  
4



(K6K.)  
6



(K1K.)  
1



(K3K.)  
3



(K5K.)  
5



(K7K.)  
7



(K8K.)

8



(K9K.)



(KAK.)

A



(KBK.)

B



(KCK.)

C



(KDK.)

D



(KEK.)

E



(KFK.)

F



---

(80002.)

Save



(80000.)

Discard

Note: If an error occurs while scanning a letter or number (before scanning the "**Save**" barcode), scan the "**Discard**" barcode, rescan the correct letter or number, and then scan the "**Save**" barcode.

