

# **Programming Guide**

**Advanced 2D Image Scanner**



This Programming Guide is intended for:

- **2D Image Scan Module: Z-5652 Plus**

### Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0	2018-01-30	Initial release
1.1	2018-08-10	Updated Continue Mode, Auto Scan Mode, JAN, GS1, QR Code
1.2	2018-10-01	Corrected Codabar stripping Start and Stop characters default
1.3	2019/07/08	Updated RS-232 features, country code, symbology features, code identifiers table, keyboard features, ASCII Code, baud rate; added Data Editing (Truncate/Return).
1.4	2019/8/29	Added GS1 DataBar Expanded Stacked, GS1 DataBar 14 Stacked
1.5	2022/3/17	JAN code for Books Separator revised

# Important Notice

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## ***General Handling Precautions***

Do not dispose the scanner in fire.  
Do not put the scanner directly in the sun or by any heat source.  
Do not use or store the scanner in a very humid place.  
Do not drop the scanner or allow it to collide violently with other objects.  
Do not take the scanner apart without authorization

## ***Guidance for Printing***

This manual is in A5 size. Please double check your printer setting before printing it out. When the barcodes are to be printed out for programming, the use of a high-resolution laser printer is strongly suggested for the best scan result.

## **Firmware Notice**

**To use all functions in this guide please update to the latest firmware.**

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# Using the Scanner

## Beeper Indication

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Beeps	Indication
3 beeps in a series from low to high pitch	Power up
1 short beep	A barcode has been successfully decoded
2 short beeps	The scanner has entered program mode
1 long beep	A setting has been programmed
3 beeps in a series from low to high pitch	The scanner has exited program mode
3 short beeps	Error setting the scanner

# Settings and Programming

Scan selected barcodes in this manual to affect setup and programming of your 2D image barcode scanner. Decoding options and interface protocols can be tailored to a specific application.

Setup parameters are stored in non-volatile memory in the scanner and are retained even when power is off. Setup parameters change only when you reset them. You may need to hide adjacent code patches with your hand when scanning.

## ***Program Set Up Flow***

Scan "Set" to set up --> Scan selected barcode --> Scan "End" to confirm the setup.

# User Preferences

---

## **Show Version**

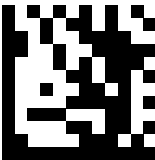
Scan this barcode to display firmware version.



Read device information

## **System Settings**

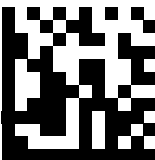
Scan this barcode to return all parameters to the default values.



Set



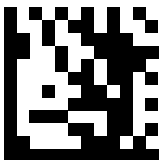
Factory default settings



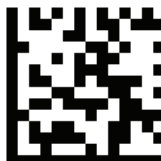
End

***Customer's Factory Default***

Scan barcodes below to set or delete customer's factory default.



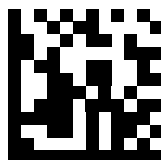
Set



Save customer's factory default



Delete customer's factory default



End

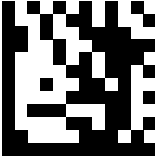
## Scan Mode

Scan a barcodes below to set the scanner to different modes.

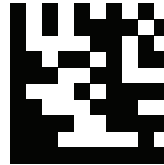
**Trigger Mode:** The scanner becomes inactive as soon as the data is transmitted by pressing the trigger button.

**Auto Scan Mode:** The scanner is still active after the data is transmitted but the successive transmission of the same code is not allowed.

**Continue Scan Mode:** scans periodically non-stop (ex. Scans once a second).



Set



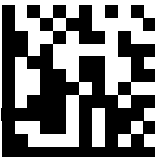
Trigger Mode



Auto Scan Mode (Default)



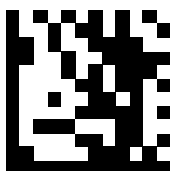
Continue Scan Mode



End

***Standby Time for Auto Scan Mode and Continue Scan Mode***

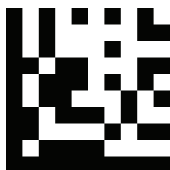
Use the barcodes below to set the standby time for Auto Scan Mode and Continue Scan Mode.



Set



1 minute (Auto Scan Mode Default)



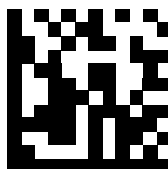
3 minutes



5 minutes

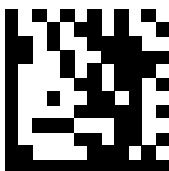


10 minutes



End





Set



15 minutes



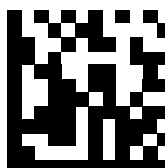
20 minutes



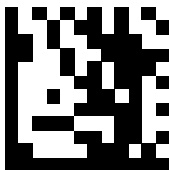
25 minutes



30 minutes



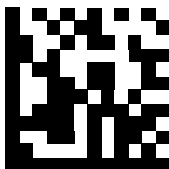
End



Set



Never (Continue Scan Mode Default)



End

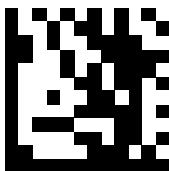
### ***Auto Scan Mode behavior***

Scan a barcodes below to change Auto Scan Mode behavior.

**Default:** The default behavior.

**Smart:** Motion detection level is adjustable under this mode.

**Illumination LED Standby off:** Illumination LED is OFF while standby; short blink after good read as indicator.



Set



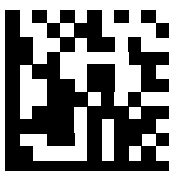
Default (Default)



Smart



Illumination LED Standby off



End

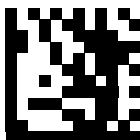
Auto Scan Mode description	Default mode	Smart mode	LED Standby Off mode
Illumination LED behavior for Motion Detection	On	Off	Off
Motion Detection condition setting	Default, no other condition support	2 Conditions and multi-levels support	Motion Detection is NOT Support
Barcode scan with Illumination LED ON	Yes	Yes	No
Gain level setting for image quality	Not Support	Not Support	Yes
Low environment light application	Yes	Yes	Not recommended

#### Auto Scan Mode descriptions:

1. Default mode: For general use. The illumination LED lights on based on default motion detection settings.
2. Smart mode: For certain environments, the illumination LED may light on too easily with the default motion detection settings. Smart mode can be used to adjust the conditions. You may change the sensibility as needed.
3. LED Standby Off mode: In this mode, the illumination LED is OFF when the device is in standby and a short blink is given after a good read as indicator. Motion detection is NOT supported in this mode so the use of this mode in low light environment is NOT recommended.

***Auto Scan Mode (Smart) Motion Detect Sensibility-Main conditions***

Set the motion detection sensibility level. Main conditions set the full image screen motion detection mode. The higher the level the more sensitive the condition becomes.



Set



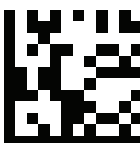
Level 1 (Low)



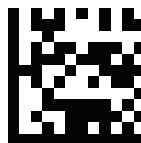
Level 2



Level 3



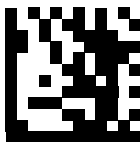
Level 4



Level 5 (Default)



End



Set



Level 6



Level 7



Level 8



Level 9



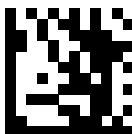
Level 10 (High)



End

***Auto Scan Mode (Smart) Motion Detect Sensibility- Secondary conditions***

Set the motion detection sensibility level. Secondary conditions enhance image screen motion detection by focusing on center area mode. The higher the level the more sensitive the condition becomes.



Set



Level 1 (Low)



Level 2



Level 3 (Default)



Level 4



Level 5 (High)



End

***Auto Scan Mode (Illumination LED Standby off) Gain***

Set Gain level for captured image quality. When the lighting is low, the higher gain level can enhance the captured image quality for better scanning performance.



Set



Level 1 (Low)



Level 2 (Default)



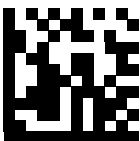
Level 3



Level 4



Level 5 (High)

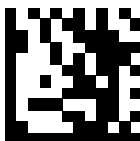


End



***Same Code Delay Time for Auto Scan Mode and Continue Scan Mode***

Scan a barcode below to select the duration of the delay time for Auto Scan Mode and Continue Scan Mode.



Set



500 msec (Default)



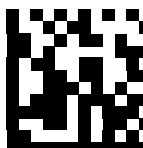
1 sec



1.5 sec



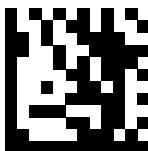
2 sec



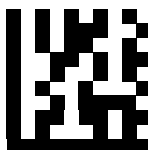
End

## Interface Switch

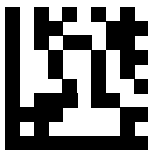
Your 2D Imager supports interfaces such as USB HID, RS232 serial, and USB virtual COM. To switch the interface, simply select the appropriate cable and configure the proper interface by following interface selection.



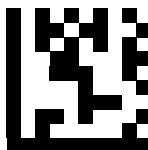
Set



RS-232

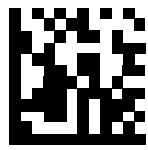


USB Keyboard



USB Virtual COM Port

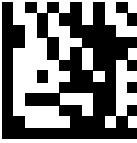
\*Driver required



End

***Good Read Beep On/ Off***

Scan a barcode below to turn on/off good read beep.



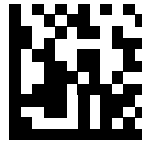
Set



On (Default)



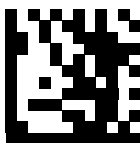
Off



End

### ***Good Read Beep Length***

Scan a barcode below to select the duration of the beep signal after a good decode.



Set



50 msec (Default)



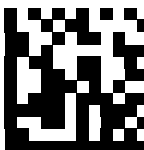
100 msec



150 msec



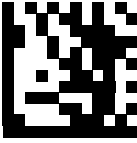
200 msec



End

***Good Read Beep Frequency***

Scan a barcode below to select the beep tone of the beep signal after a good decode.



Set



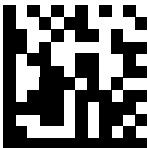
Low



Medium (Default)



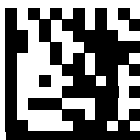
High



End

## ***Aiming Pattern***

Aiming pattern works as an aiming system to aid in barcode reading. Use the following settings to enable or disable this function. This function is for supporting models only.



Set



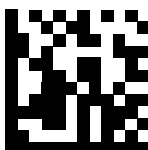
Auto



Always On



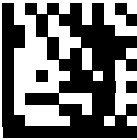
Always Off



End

## ***Illumination***

Set Illumination to aid in barcode reading. Use the following settings to configure this function.



Set



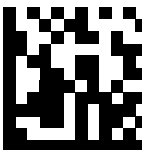
On



Always On



Off

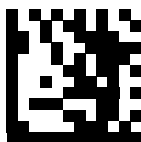


End

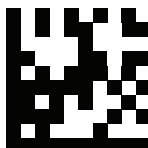
### Notes:

- Not all models can support this function.

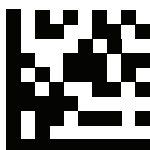
## *Terminal Character*



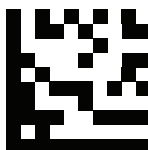
Set



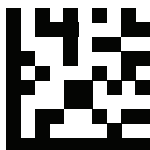
None



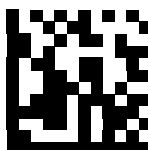
CR/LF (Default)



CR



TAB



End

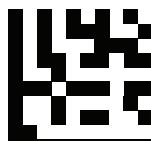


## RS232 Baud Rate

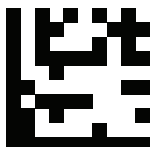
Baud rate is the number of bits of data transmitted per second. Set the imager's baud rate to match the baud rate setting of the host device. Otherwise, data may not reach the host device or may reach it in distorted form.



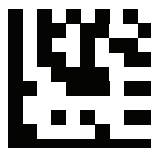
Set



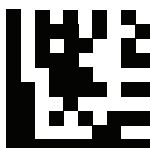
9600 (Default)



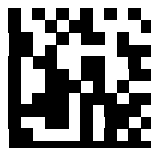
19200



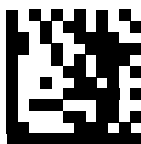
38400



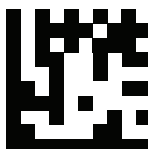
57600



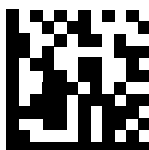
End



Set



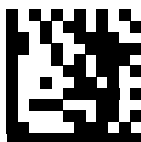
115200



End

## ***RS232 Parity Bit***

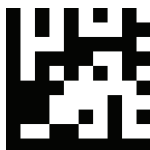
Parity bit can be added to ensure the total number of the string is even or odd.



Set



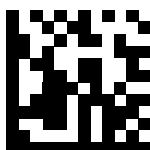
None (Default)



Even parity



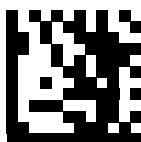
Odd parity



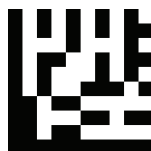
End

**RS232 Stop Bit**

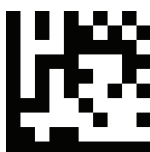
Stop bit is used to signal the end of a transmission.



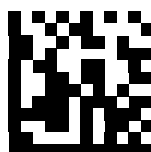
Set



1 Stop Bit (Default)



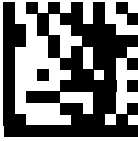
2 Stop Bit



End

***RS232 Data Bit***

Data bit sets the word length at 7 or 8 bits of data per character.



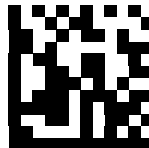
Set



CS7



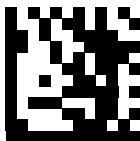
CS8 (Default)



End

## ***USB Speed***

Scan a barcode below to set USB speed.



Set



USB 2.0



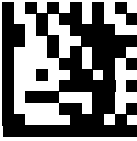
USB 1.1 (Default)



End

## Country Code

Scann the following settings to change the country code.



Set



US (Default)



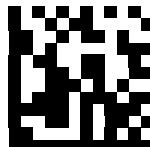
Belgium



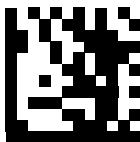
Britain



Denmark



End



Set



France



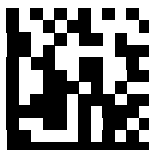
Germany



Italy

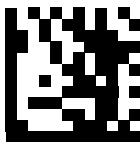


Norway



End





Set



Portugal



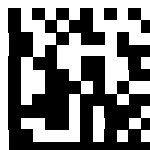
Spain



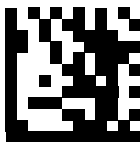
Sweden



Switzerland



End



Set



Japan



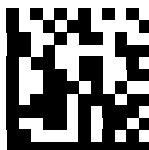
Hungary



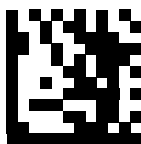
Czech Republic



Slovakia



End



Set



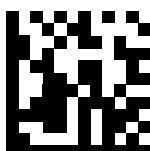
Romania



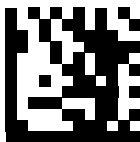
Croatia



Poland



End



Set



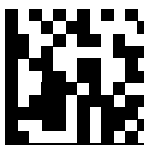
International Keyboard mode  
(ALT mode)



Turkey-Q



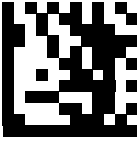
Turkey-F



End

## ***Persian/Arabic Language Encoding Support***

Scann the following settings to change the encoding options.



Set



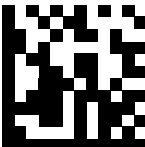
UTF-8 (Default)



ISO 8859-6



CP1256 (WINDOWS-1256)



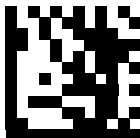
End

## Readable Symbolologies

---

This section provides the programming barcodes for enabling and disabling readable symbolologies. If the default values suit requirements, programming is not necessary.

### *All Symbolologies*



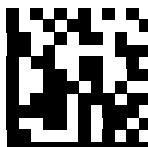
Set



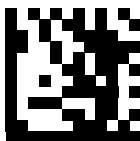
Enable All



Default



End

**UPC-A**

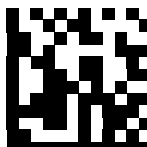
Set



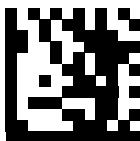
Enable UPC-A (Default)



Disable UPC-A



End

***UPC-E***

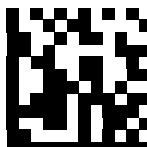
Set



Enable UPC-E

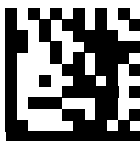


Disable UPC-E (Default)



End



***EAN-8***

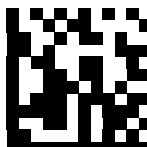
Set



Enable EAN 8 (Default)

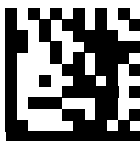


Disable EAN 8



End

## ***EAN 13***



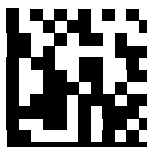
Set



Enable EAN 13 (Default)

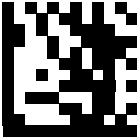


Disable EAN 13



End

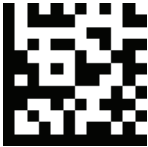
## *JAN code for Books*



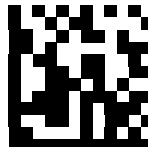
Set



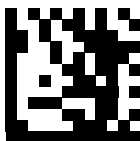
Enable



Disable (Default)



End

**Code 128**

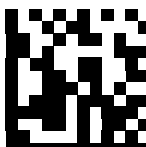
Set



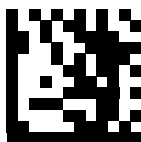
Enable Code 128 (Default)



Disable Code 128



End

**Code 39**

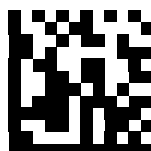
Set



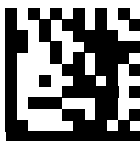
Enable Code 39 (Default)



Disable Code 39



End

**Code 93**

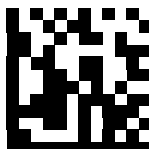
Set



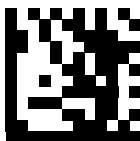
Enable Code 93 (Default)



Disable Code 93



End

**Code 32**

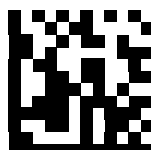
Set



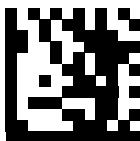
Enable Code 32



Disable Code 32 (Default)



End

***Code 11***

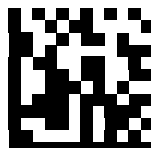
Set



Enable Code 11



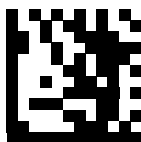
Disable Code 11 (Default)



End



## *Codabar*



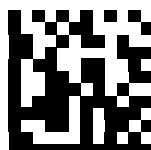
Set



Enable Codabar (Default)

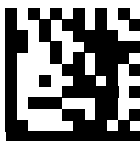


Disable Codabar



End

## *Plessey*



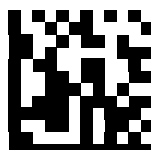
Set



Enable Plessey



Disable Plessey (Default)



End

## *MSI/Plessy*



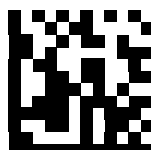
Set



Enable MSI/Plessy

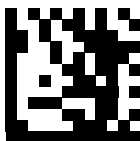


Disable MSI/Plessy (Default)



End

## *Interleaved 2 of 5*



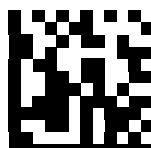
Set



Enable Interleaved 2 of 5 (Default)

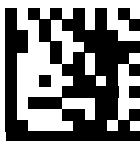


Disable Interleaved 2 of 5



End

## *IATA 2 of 5*



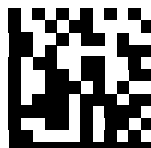
Set



Enable IATA 2 of 5

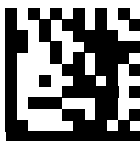


Disable IATA 2 of 5 (Default)



End

## Matrix 2 of 5



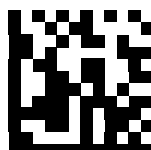
Set



Enable Matrix 2 of 5

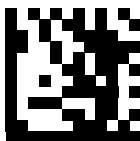


Disable Matrix 2 of 5 (Default)



End

## *Straight 2 of 5*



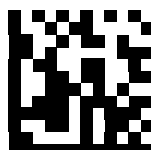
Set



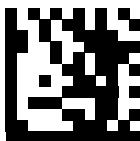
Enable Straight 2 of 5



Disable Straight 2 of 5 (Default)



End

***RSS 14***

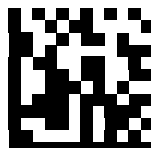
Set



Enable RSS 14 (Default)



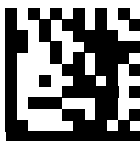
Disable RSS 14



End



## ***RSS Expanded***



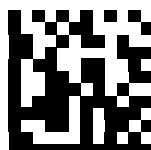
Set



Enable RSS Expanded (Default)

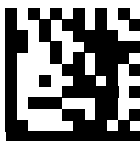


Disable RSS Expanded



End

## ***RSS Limited***



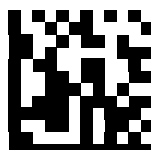
Set



Enable RSS Limited (Default)



Disable RSS Limited



End

## Component CC-A



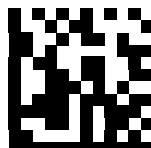
Set



Enable Component CC-A

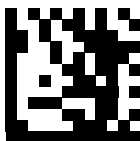


Disable Component CC-A (Default)



End

## *Component CC-B*



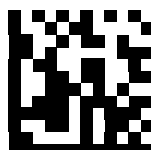
Set



Enable Component CC-B

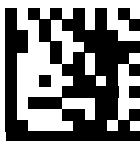


Disable Component CC-B (Default)



End

*Component CC-C*



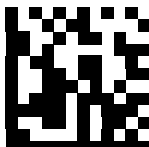
Set



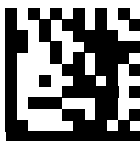
Enable Component CC-C



Disable Component CC-C (Default)



End

**PDF417**

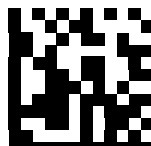
Set



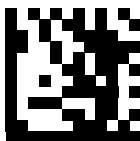
Enable PDF417 (Default)



Disable PDF417



End

***Micro PDF417***

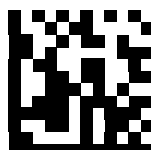
Set



Enable Micro PDF417 (Default)

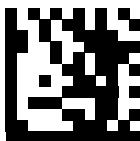


Disable Micro PDF417



End

## ***Data Matrix***



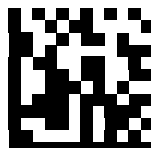
Set



Enable Data Matrix (Default)



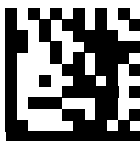
Disable Data Matrix



End



## QR Code



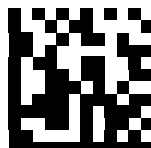
Set



Enable QR Code (Default)

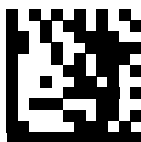


Disable QR Code

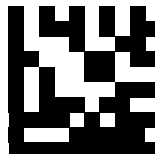


End

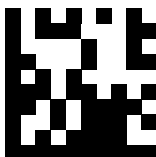
## Micro QR Code



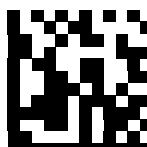
Set



Enable Micro QR Code (Default)



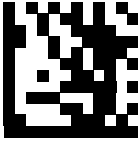
Disable Micro QR Code



End

**GS1-2D AIM ID**

GS1 2D barcodes (GS1 DataMatrix, GS1 QR Code) output AIM ID Setting.



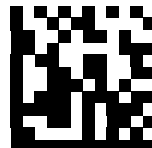
Set



Enable



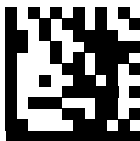
Disable (Default)



End

**GS1-128 AIM ID**

GS1-128 output AIM ID Setting.



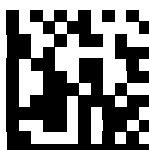
Set



Enable



Disable (Default)



End

***GS1 DataBar Expanded Stacked***

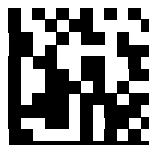
Set



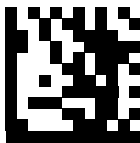
Enable



Disable (Default)



End

***GS1 DataBar 14 Stacked***

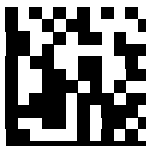
Set



Enable

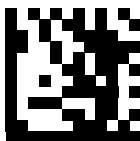


Disable (Default)



End

## Aztec



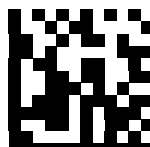
Set



Enable Aztec

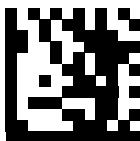


Disable Aztec (Default)



End

## MaxiCode



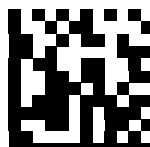
Set



Enable MaxiCode



Disable MaxiCode (Default)

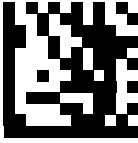


End



**Pharmacode**

(Pharmaceutical Binary Code)



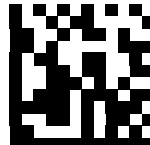
Set



Enable Pharmacode



Disable Pharmacode (Default)



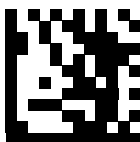
End

## Symbology Features

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This section provides the programming barcodes for selecting features available to different symbologies.

### *UPC / EAN*



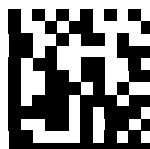
Set



Enable decoding of 2/5-digit supplemental  
code for UPC-A, UPC-E, EAN-13,  
and EAN-8



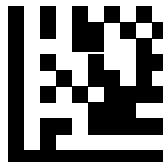
Disable decoding of 2/5-digit supplemental  
code for UPC-A, UPC-E, EAN-13,  
and EAN-8 (Default)



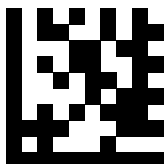
End

**UPC-A**

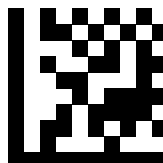
Set



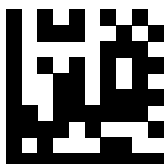
Enable UPC-A Number System digit  
(Default)



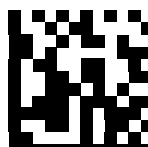
Disable UPC-A Number System digit



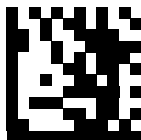
Enable UPC-A check digit (Default)



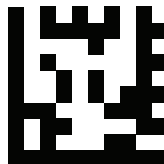
Disable UPC-A check digit



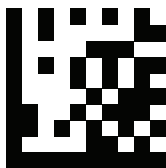
End



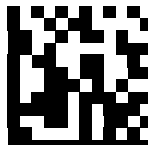
Set



Enable conversion of UPC-A to EAN13

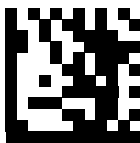


Disable conversion of UPC-A to EAN13  
(Default)



End

*UPC-A Data Redundant Check*



Set



Off (Default)



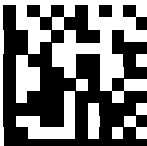
1



2

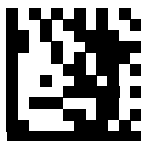


3

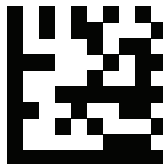


End

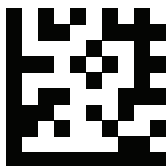
## UPC-E



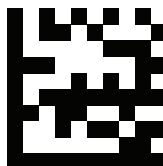
Set



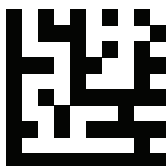
Enable UPC-E Number System digit  
(Default)



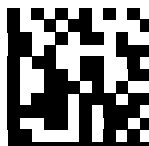
Disable UPC-E Number System digit



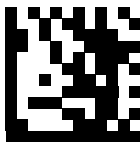
Enable UPC-E check digit (Default)



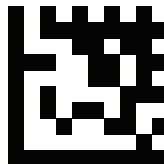
Disable UPC-E check digit



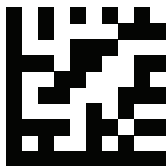
End



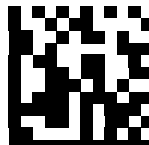
Set



Enable conversion of UPC-E to UPC-A

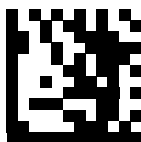


Disable conversion of UPC-E to UPC-A  
(Default)

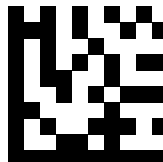


End

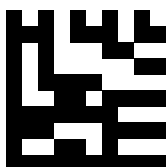
## EAN 8



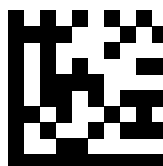
Set



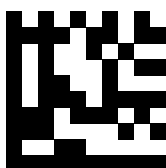
Enable EAN 8 check digit (Default)



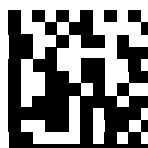
Disable EAN 8 check digit



Enable conversion of EAN 8 to EAN 13



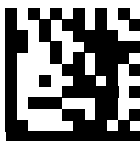
Disable conversion of EAN 8 to EAN 13  
(Default)



End



*EAN 8 Data Redundant Check*



Set



Off (Default)



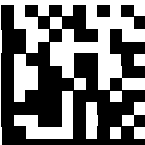
1



2

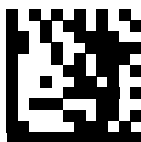


3

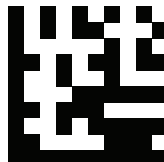


End

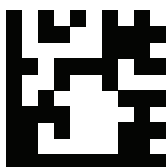
## EAN 13



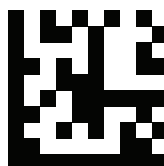
Set



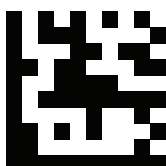
Enable EAN 13 check digit (Default)



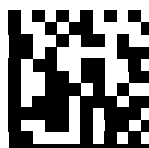
Disable EAN 13 check digit



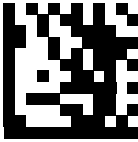
Enable conversion of EAN 13 to ISBN



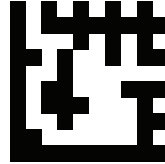
Disable conversion of EAN 13 to ISBN  
(Default)



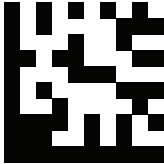
End



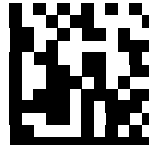
Set



Enable conversion of EAN 13 to ISSN

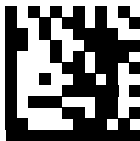


Disable conversion of EAN 13 to ISSN  
(Default)



End

### ***EAN 13 Data Redundant Check***



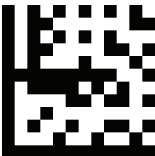
Set



Off



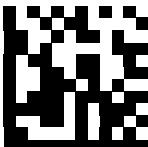
1 (Default)



2

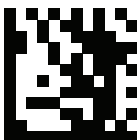


3



End

## *JAN code for Books Separator*



Set



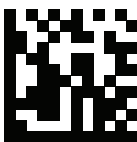
[TAB] key x 2



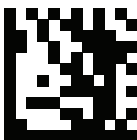
[SPACE] key x 3



[-] dash char



End



Set



Others char Separator

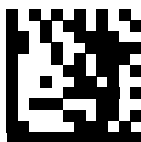
For parameters requiring specific numeric values, scan the [PROGRAMMING GUIDE\ASCII Code] appropriately numbered barcode(s)



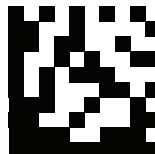
None(Default)



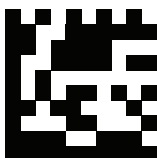
End

**Code 39**

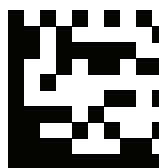
Set



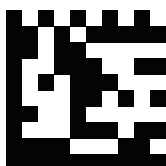
Enable Code 39 full ASCII mode



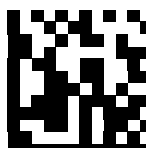
Disable Code 39 full ASCII mode (Default)



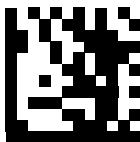
Enable Start and Stop characters



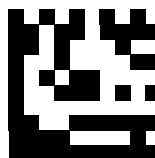
Disable Start and Stop characters (Default)



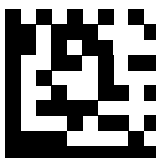
End



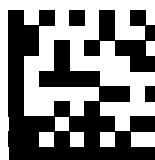
Set



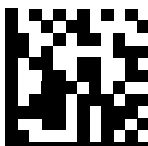
Disable Checksum (Default)



Enable checksum and send check character

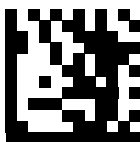


Enable checksum and strip check character



End



***Code 39 Data Redundant Check***

Set



Off



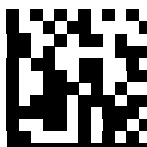
1 (Default)



2



3

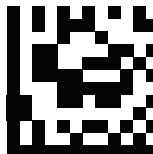


End

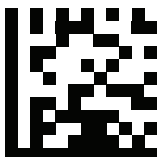
## Codabar



Set



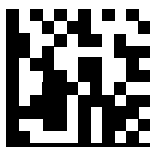
Disable Checksum (Default)



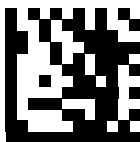
Enable checksum and send check character



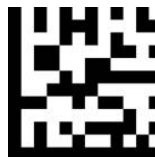
Enable checksum and strip check character



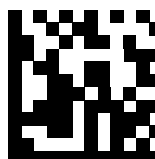
End



Set

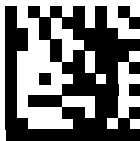
Enable stripping Start and Stop characters  
(Default)

Disable stripping Start and Stop characters



End

*Codabar Data Redundant Check*



Set



Off



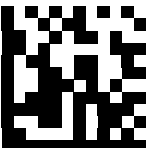
1 (Default)



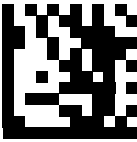
2



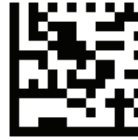
3



End

***Code 93 Data Redundant Check***

Set



Off (Default)



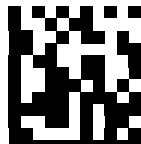
1



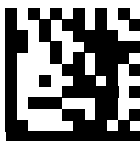
2



3



End

***Code 128 Data Redundant Check***

Set



Off (Default)



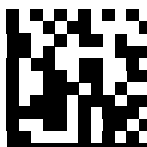
1



2

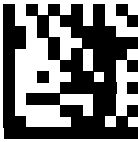


3

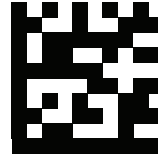


End

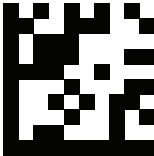
## *Interleaved 2 of 5*



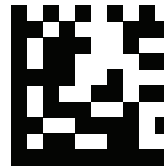
Set



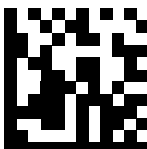
Disable Checksum (Default)



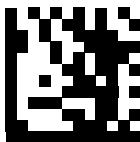
Enable checksum and send check  
character



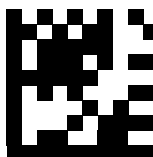
Enable checksum and strip check  
character



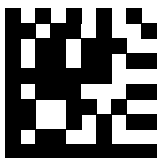
End



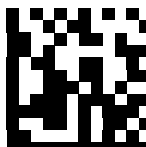
Set



Default quiet zone checking  
No length checking performed (Default)



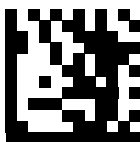
Smaller quiet zone allowed



End



## *Interleaved 2 of 5 Data Redundant Check*



Set



Off (Default)



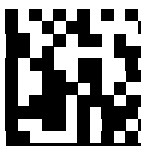
1



2

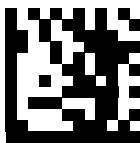


3

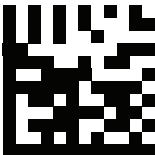


End

*MSI / Plessey*



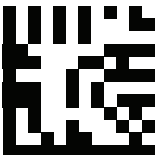
Set



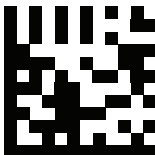
Disable MSI Plessey checksum



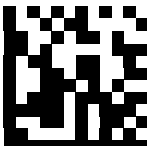
Mod 10 checksum (Default)



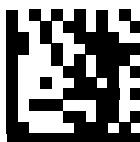
Mod 10/10 checksum



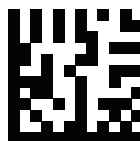
Mod 11/10 checksum



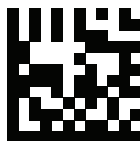
End



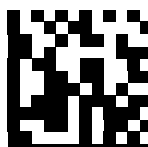
Set



Output checksum character(s) (Default)

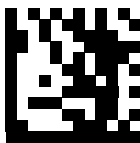


Strip checksum character(s)

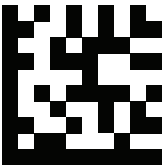


End

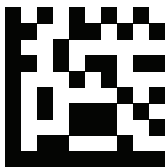
**Code 11**



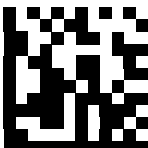
Set



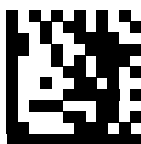
Output checksum character(s)



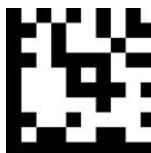
Strip checksum character(s) (Default)



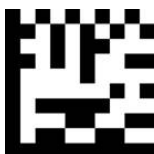
End



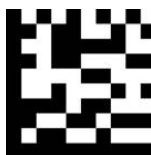
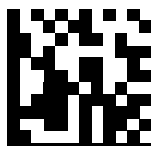
Set



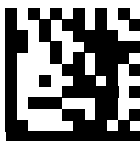
Disable checksum checking



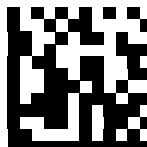
Enable 1-digit checksum checking

Enable 2-digit checksum checking  
(Default)

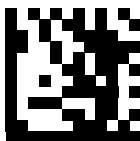
End

***Code 32 (Italian Pharmacode)***

Set

Transmit  
Alphabet "A" charDisable Transmit  
Alphabet "A" char  
(Default)

End

***PDF-417 Data Redundant Check***

Set



Off (Default)



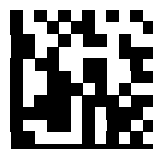
1



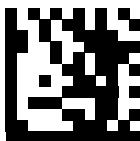
2



3



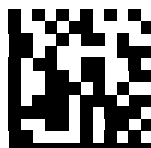
End

***FNC1 GS Substitution Values***

Set

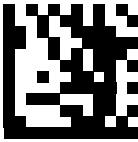


"Ctrl+]" (Default)

"Alt+29(KP)"  
(nmvs)

End

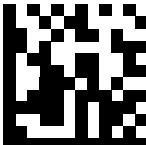


**Matrix 2 of 5**

Set

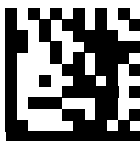


Disable Checksum (Default)

Enable checksum and send check  
characterEnable checksum and strip check  
character

End

## *Straight 2 of 5*



Set



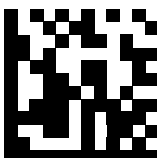
Disable Checksum (Default)



Enable checksum and send check  
character

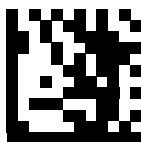


Enable checksum and strip check  
character

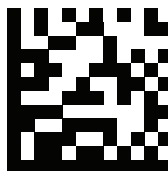


End

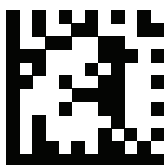
## ***Data Matrix***



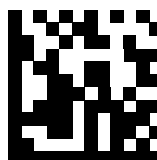
Set



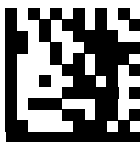
Enable mirror decoding (Default)



Disable mirror decoding



End



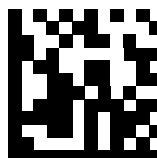
Set



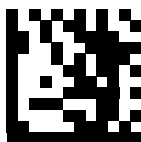
Enable rectangular Data Matrix decoding



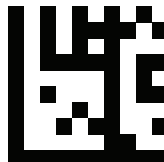
Disable rectangular Data Matrix decoding  
(Default)



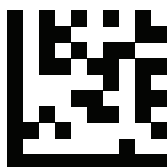
End

**QR / Micro QR**

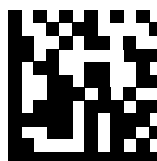
Set



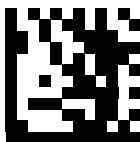
Enable mirror decoding (Default)



Disable mirror decoding



End



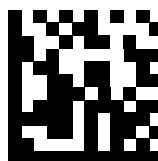
Set



UTF8 conversion for word only

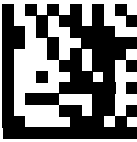


Universal UTF8 conversion (Default)



End

**Note:** Please install QR\_UTF8\_Conversion executable file before using this function.

***QR / Micro QR Japanese Language Encoding Support***

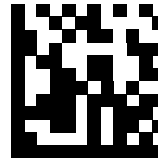
Set



Enable



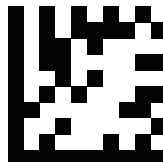
Disable (Default)



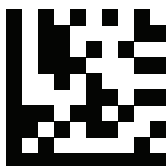
End

***Aztec***

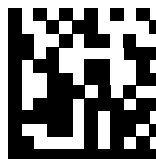
Set



Enable mirror decoding (Default)



Disable mirror decoding



End



## Data Editing (Prefix)

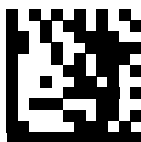
---

Prefix is additional characters that can be sent before the scanned data. Please scan the barcodes in the selection below to set your prefix.

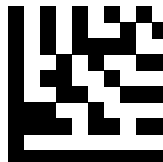
### ***Prefix Set Up Flow***

1. Scan Set.
2. Enable barcode type.
3. Scan prefix you would like to add characters within ASCII Table. Up to 4 digits can be added.
4. Scan End.

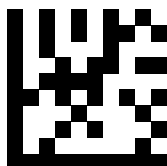
Ex. If we wish to add "3" as prefix for all barcode type, then follow procedure as below, Scan [Set] to enter setup. Then we select barcode by scanning [Enable All], then we scan [3] as 3 of ASCII HEX. At the end, we scan [End] to completed setup.

***All Prefix***

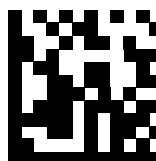
Set



Enable All



Disable All (Default)

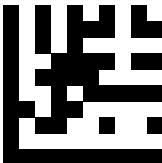


End

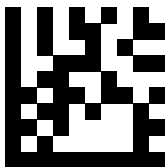
*UPC / EAN Prefix*



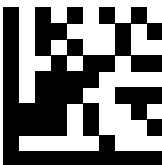
Set



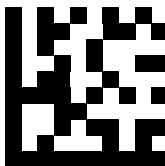
Enable UPC-A



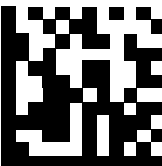
Disable UPC-A



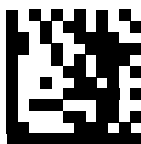
Enable UPC-E



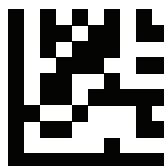
Disable UPC-E



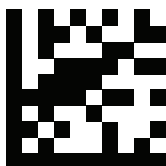
End



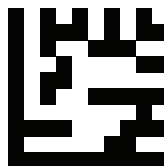
Set



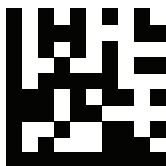
Enable EAN 8



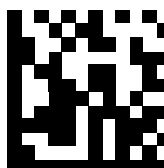
Disable EAN 8



Enable EAN 13

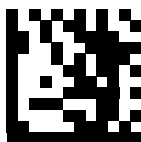


Disable EAN 13

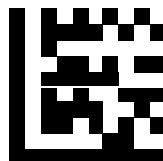


End

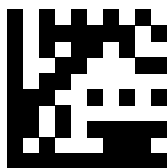
## *Code 128 Prefix*



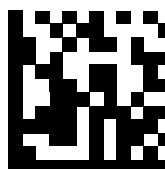
Set



Enable Code 128

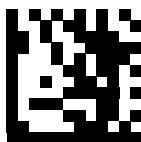


Disable Code 128

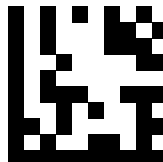


End

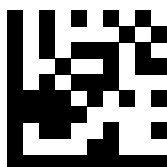
## Code 39 Prefix



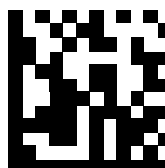
Set



Enable Code 39

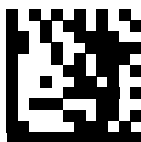


Disable Code 39

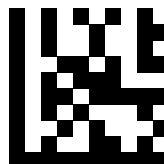


End

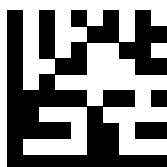
## ***Code 93 Prefix***



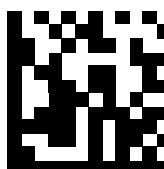
Set



Enable Code 93



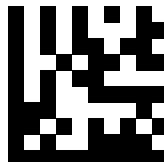
Disable Code 93



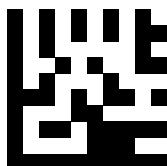
End

***Code 32 Prefix***

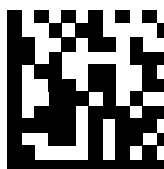
Set



Enable Code 32



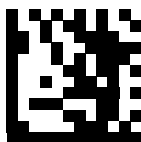
Disable Code 32



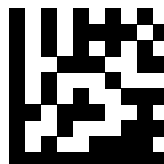
End



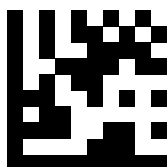
## ***Code 11 Prefix***



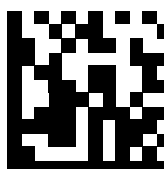
Set



Enable Code 11

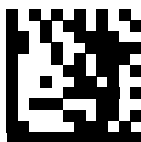


Disable Code 11

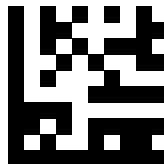


End

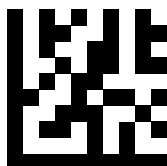
## *Codabar Prefix*



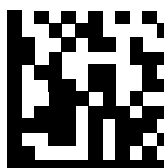
Set



Enable Codabar

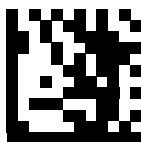


Disable Codabar

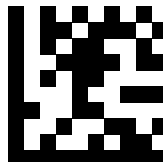


End

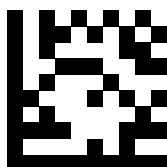
## *Plessey Prefix*



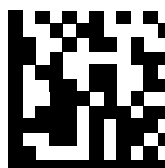
Set



Enable Plessey

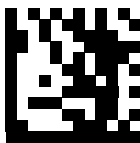


Disable Plessey

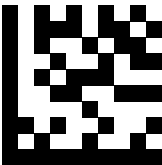


End

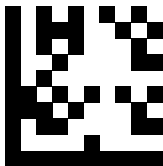
*MSI Prefix*



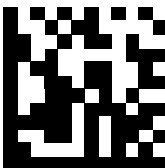
Set



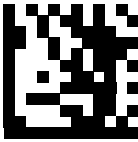
Enable MSI



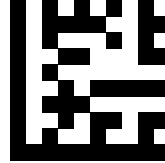
Disable MSI



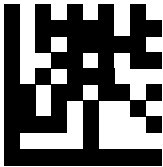
End

***Interleaved 2 of 5 Prefix***

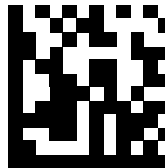
Set



Enable Interleaved 2 of 5

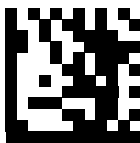


Disable Interleaved 2 of 5

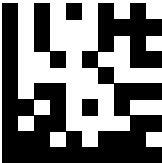


End

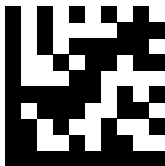
*IATA 2 of 5 Prefix*



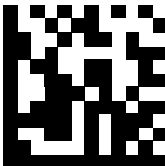
Set



Enable IATA 2 of 5

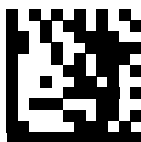


Disable IATA 2 of 5

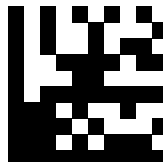


End

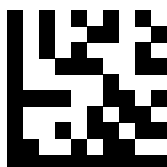
## ***Matrix 2 of 5 Prefix***



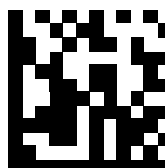
Set



Enable Matrix 2 of 5

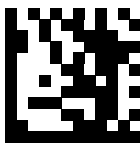


Disable Matrix 2 of 5

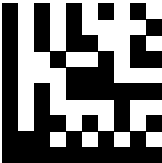


End

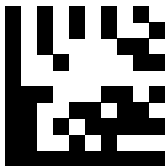
*Straight 2 of 5 Prefix*



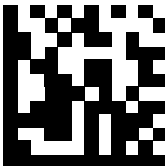
Set



Enable Straight 2 of 5

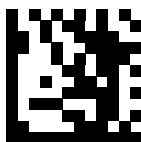


Disable Straight 2 of 5

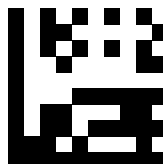


End

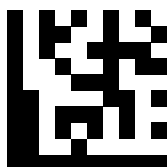


***RSS 14 Prefix***

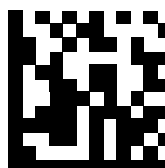
Set



Enable RSS 14

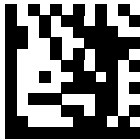


Disable RSS 14

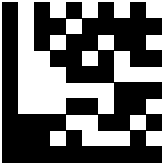


End

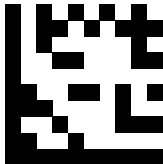
***RSS Expanded Prefix***



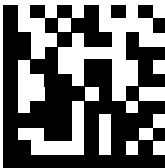
Set



Enable RSS Expanded

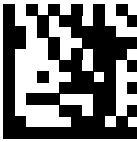


Disable RSS Expanded

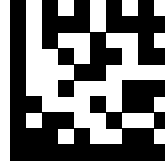


End

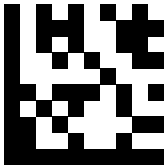
## ***RSS Limited Prefix***



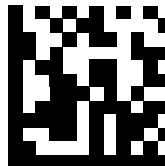
Set



Enable RSS Limited

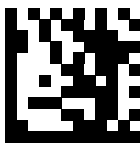


Disable RSS Limited

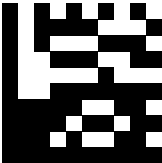


End

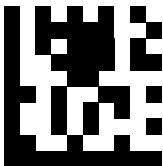
*Component CC-A Prefix*



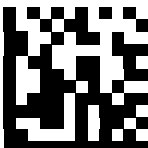
Set



Enable Component CC-A

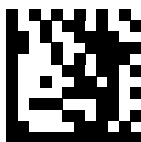


Disable Component CC-A

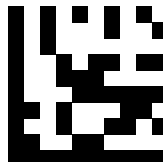


End

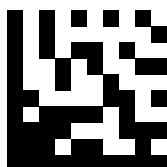
## *Component CC-B Prefix*



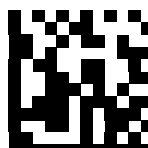
Set



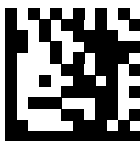
Enable Component CC-B



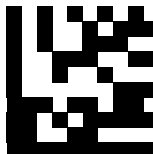
Disable Component CC-B



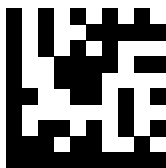
End

***Component CC-C Prefix***

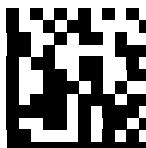
Set



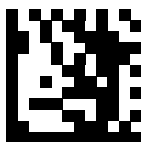
Enable Component CC-C



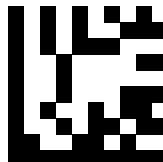
Disable Component CC-C



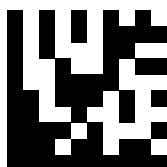
End

***PDF 417 Prefix***

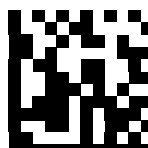
Set



Enable PDF 417



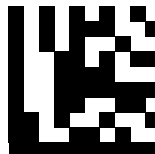
Disable PDF 417



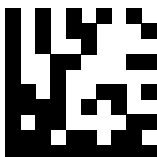
End

***Micro PDF 417 Prefix***

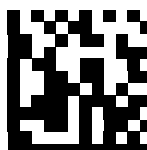
Set



Enable Micro PDF 417



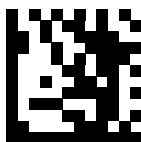
Disable Micro PDF 417



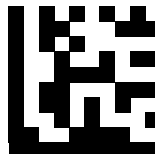
End



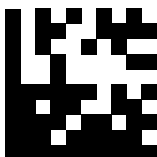
## ***Data Matrix Prefix***



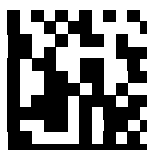
Set



Enable Data Matrix

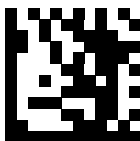


Disable Data Matrix

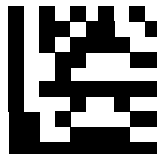


End

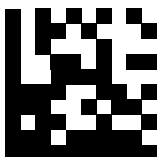
## QR Prefix



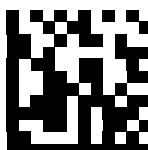
Set



Enable QR Code

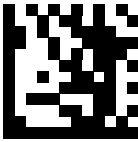


Disable QR Code

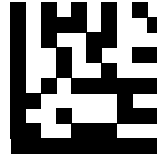


End

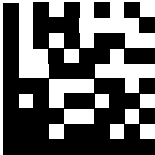
## *Micro QR Prefix*



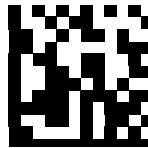
Set



Enable Micro QR



Disable Micro QR

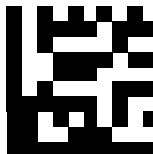


End

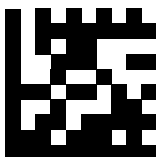
## *Aztec Prefix*



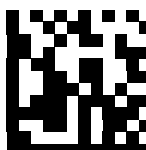
Set



Enable Aztec

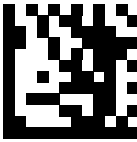


Disable Aztec

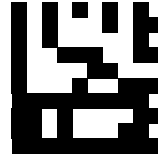


End

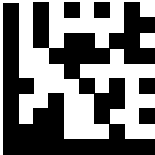
## *MaxiCode Prefix*



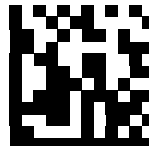
Set



Enable MaxiCode



Disable MaxiCode



End

## Data Editing (Suffix)

---

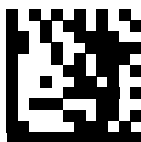
Suffix is additional characters that can be sent after the scanned data. Please scan the barcodes in the selection below to set your suffix.

### ***Suffix Set Up Flow***

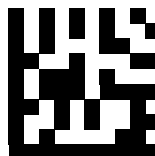
1. Scan Set.
2. Enable barcode type.
3. Scan suffix you would like to add characters within ASCII Table. Up to 4 digits can be added.
4. Scan End.

Ex. If we wish to add “36” as suffix for all barcode type, then follow procedure as below. Scan [Set] to enter setup. Then we select barcode by scanning [Enable All], then we scan [3] as 3 of ASCII HEX and [6] as 6.

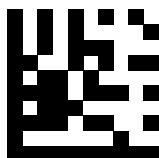
## *All Suffix*



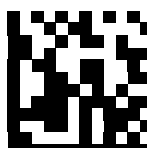
Set



Enable All

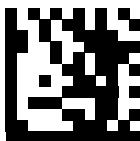


Disable All (Default)

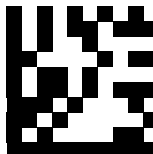


End

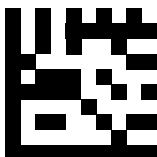
## *UPC-A Suffix*



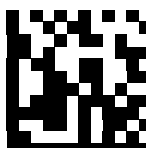
Set



Enable UPC-A



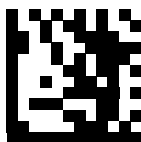
Disable UPC-A



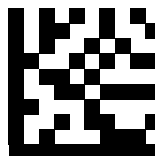
End



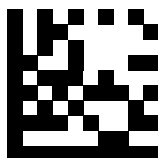
## *UPC-E Suffix*



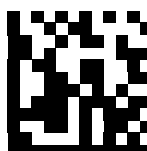
Set



Enable UPC-E



Disable UPC-E

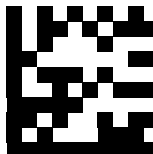


End

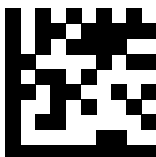
## ***EAN 8 Suffix***



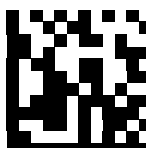
Set



Enable EAN 8



Disable EAN 8



End

## ***EAN 13 Suffix***



Set



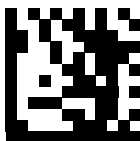
Enable EAN 13



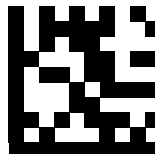
Disable EAN 13



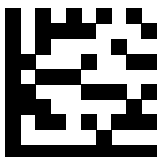
End

***Code 128 Suffix***

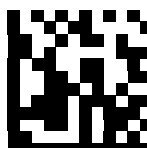
Set



Enable Code 128

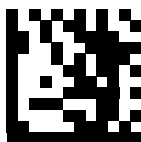


Disable Code 128

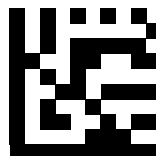


End

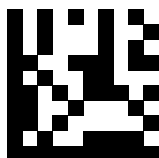
## *Code 39 Suffix*



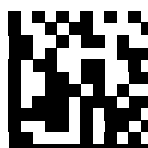
Set



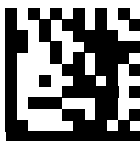
Enable Code 39



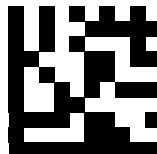
Disable Code 39



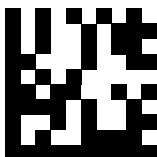
End

***Code 93 Suffix***

Set



Enable Code 93

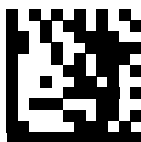


Disable Code 93

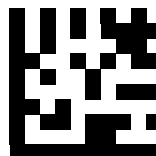


End

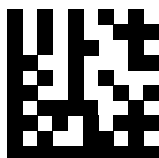
## Code 32 Suffix



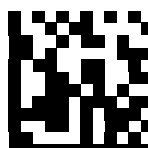
Set



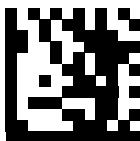
Enable Code 32



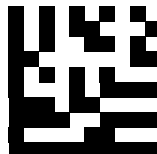
Disable Code 32



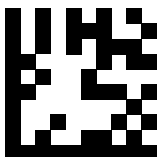
End

***Code 11 Suffix***

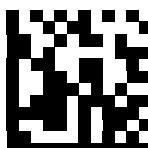
Set



Enable Code 11



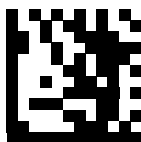
Disable Code 11



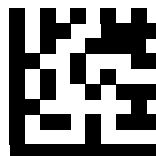
End



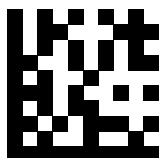
## *Codabar Suffix*



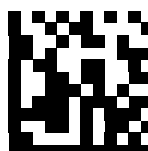
Set



Enable Codabar



Disable Codabar

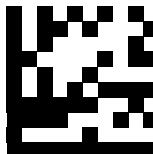


End

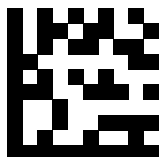
## *Plessey Suffix*



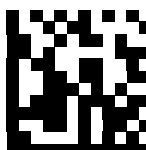
Set



Enable Plessey



Disable Plessey

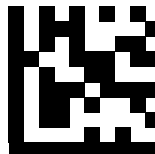


End

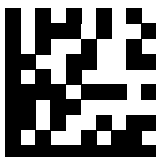
## *MSI Suffix*



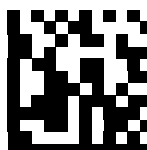
Set



Enable MSI

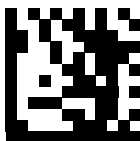


Disable MSI

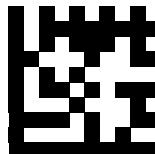


End

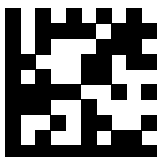
## *Interleaved 2 of 5 Suffix*



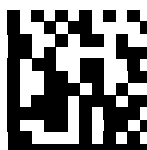
Set



Enable Interleaved 2 of 5

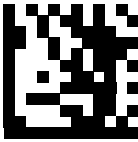


Disable Interleaved 2 of 5

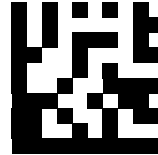


End

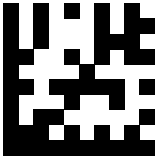
## *IATA 2 of 5 Suffix*



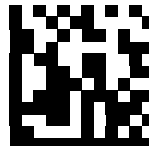
Set



Enable IATA 2 of 5

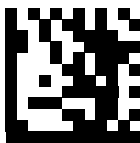


Disable IATA 2 of 5

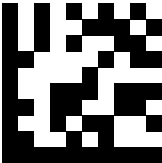


End

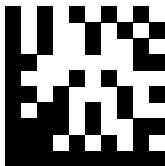
*Matrix 2 of 5 Suffix*



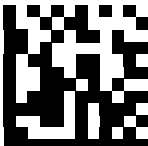
Set



Enable Matrix 2 of 5

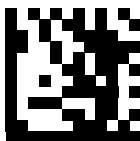


Disable Matrix 2 of 5

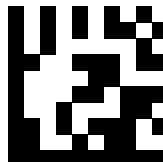


End

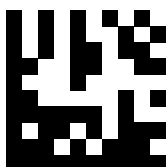
## *Straight 2 of 5 Suffix*



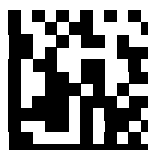
Set



Enable Straight 2 of 5

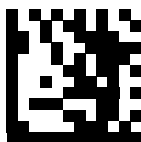


Disable Straight 2 of 5

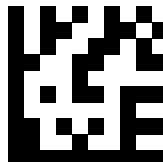


End

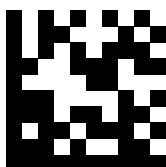
## ***RSS 14 Suffix***



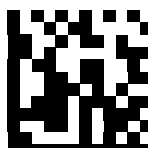
Set



Enable RSS 14



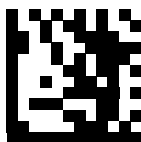
Disable RSS 14



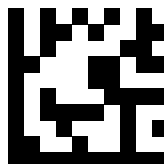
End



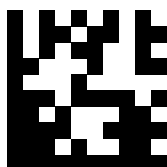
## *RSS Expanded Suffix*



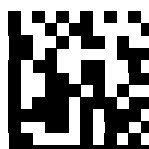
Set



Enable RSS Expanded

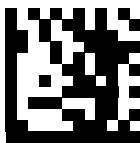


Disable RSS Expanded

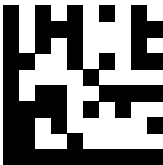


End

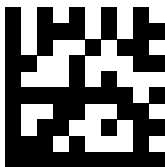
***RSS Limited Suffix***



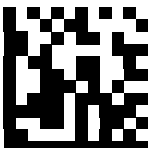
Set



Enable RSS Limited

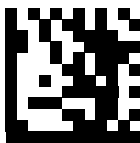


Disable RSS Limited

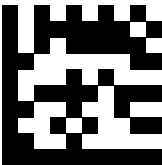


End

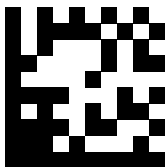
*Component CC-A Suffix*



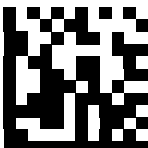
Set



Enable Component CC-A

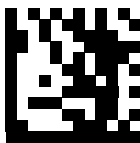


Disable Component CC-A

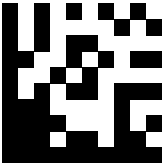


End

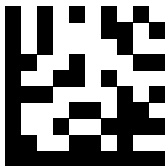
*Component CC-B Suffix*



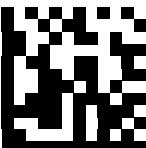
Set



Enable Component CC-B

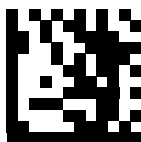


Disable Component CC-B

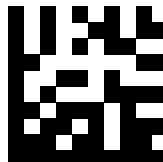


End

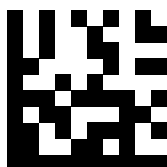
## *Component CC-C Suffix*



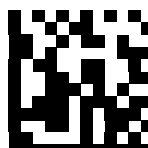
Set



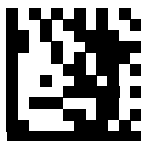
Enable Component CC-C



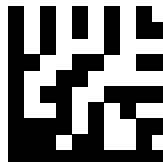
Disable Component CC-C



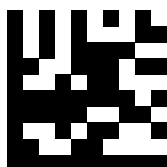
End

***PDF-417 Suffix***

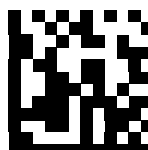
Set



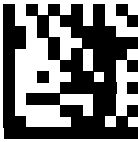
Enable PDF417



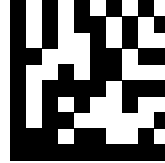
Disable PDF417



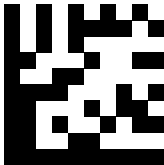
End

***Micro PDF-417 Suffix***

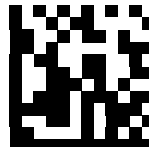
Set



Enable Micro PDF417

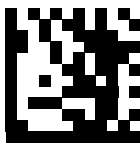


Disable Micro PDF417

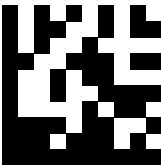


End

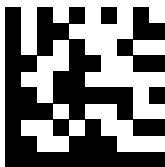
*Data Matrix Suffix*



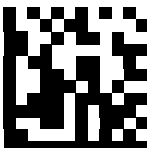
Set



Data Matrix Enable



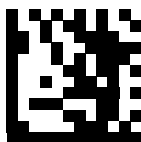
Data Matrix Disable



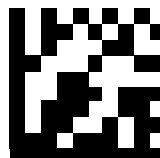
End



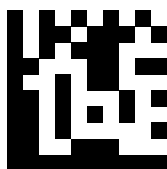
## QR Code Suffix



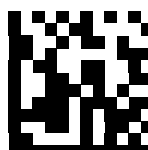
Set



QR Code Enable

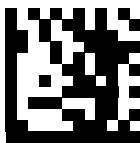


QR Code Disable

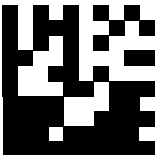


End

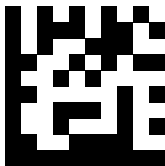
*Micro QR Suffix*



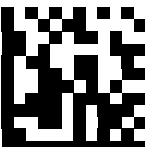
Set



Micro QR Enable

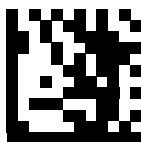


Micro QR Disable

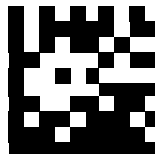


End

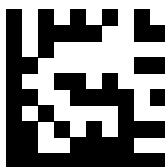
## *Aztec Suffix*



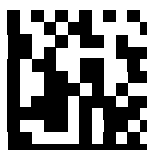
Set



Aztec Enable



Aztec Disable

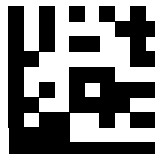


End

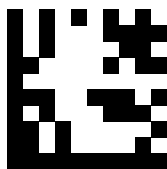
## *MaxiCode Suffix*



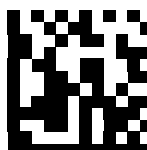
Set



MaxiCode Enable



MaxiCode Disable



End

# Data Editing (Truncate/Return)

---

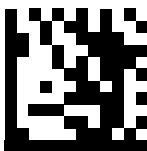
## Truncate/Return Commands

1. Return the leftmost characters: Specify the number of leftmost characters you want returned.
2. Truncate the leftmost characters: Specify the number of leftmost characters you want deleted.
3. Return the Rightmost characters: Specify the number of rightmost characters you want returned.
4. Truncate the Rightmost characters: Specify the number of rightmost characters you want deleted.
5. Return the Middle characters: Returns the middle characters. The middle is found by scanning from left to right, and parameters determine where the middle begins and ends
6. Truncate the Middle characters: Delete the middle characters. The middle is found by scanning from left to right, and parameters determine where the middle begins and ends

## Set Up Flow

1. Scan Set to set up.
2. Enable barcode type.
3. Scan one of Truncate/Return Command.
4. Select lengths using the numeric bar codes in ASCII Code Table.
5. Scan End.

## *Set All Symbolologies Truncate/Return*



Set



Return leftmost



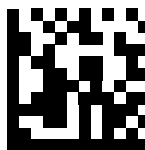
Truncate leftmost



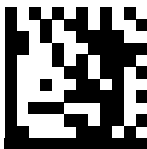
Return rightmost



Truncate rightmost



End



Set



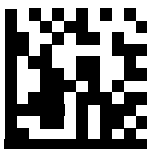
Return middle



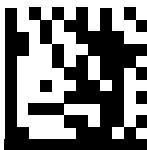
Truncate middle



Disable All (Default)



End

***Set UPC-A Truncate/Return***

Set



Return leftmost



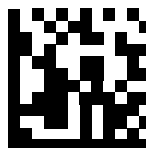
Truncate leftmost



Return rightmost

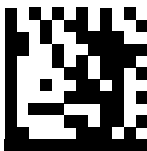


Truncate rightmost



End





Set



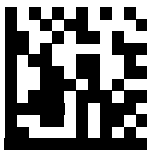
Return middle



Truncate middle

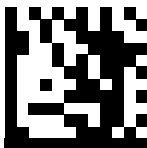


Disable (Default)



End

### ***Set UPC-E Truncate/Return***



Set



Return leftmost



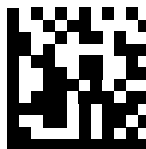
Truncate leftmost



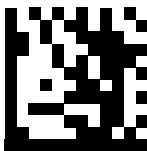
Return rightmost



Truncate rightmost



End



Set



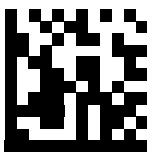
Return middle



Truncate middle

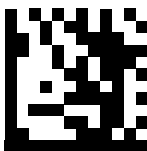


Disable (Default)



End

## *Set EAN-8 Truncate/Return*



Set



Return leftmost



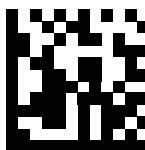
Truncate leftmost



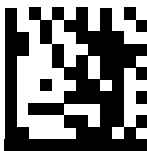
Return rightmost



Truncate rightmost



End



Set



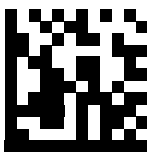
Return middle



Truncate middle

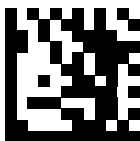


Disable (Default)



End

## *Set EAN 13 Truncate/Return*



Set



Return leftmost



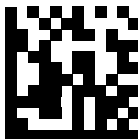
Truncate leftmost



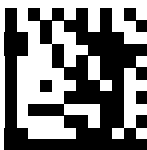
Return rightmost



Truncate rightmost



End



Set



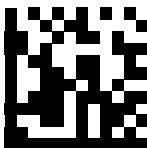
Return middle



Truncate middle



Disable (Default)



End

## *Set Code 128 Truncate/Return*



Set



Return leftmost



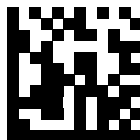
Truncate leftmost



Return rightmost

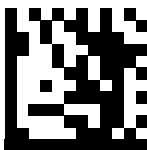


Truncate rightmost



End





Set



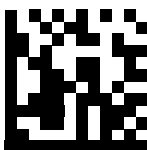
Return middle



Truncate middle

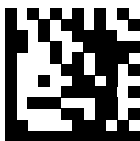


Disable (Default)



End

## *Set Code 39 Truncate/Return*



Set



Return leftmost



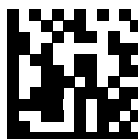
Truncate leftmost



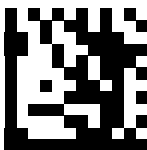
Return rightmost



Truncate rightmost



End



Set



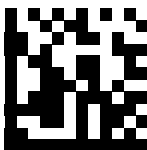
Return middle



Truncate middle

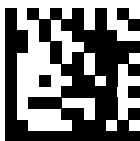


Disable (Default)



End

## *Set Code 93 Truncate/Return*



Set



Return leftmost



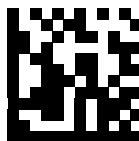
Truncate leftmost



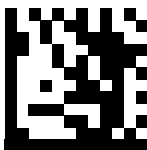
Return rightmost



Truncate rightmost



End



Set



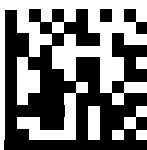
Return middle



Truncate middle

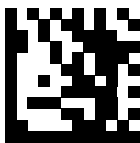


Disable (Default)



End

*Set Code 32 Truncate/Return*



Set



Return leftmost



Truncate leftmost



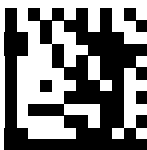
Return rightmost



Truncate rightmost



End



Set



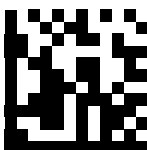
Return middle



Truncate middle

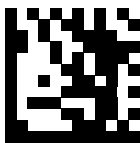


Disable (Default)



End

*Set Code 11 Truncate/Return*



Set



Return leftmost



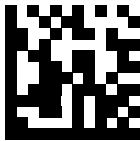
Truncate leftmost



Return rightmost

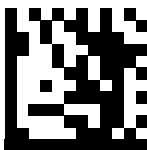


Truncate rightmost



End





Set



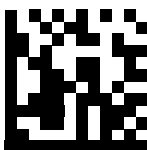
Return middle



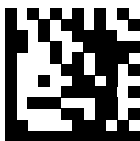
Truncate middle



Disable (Default)



End

***Set Codabar Truncate/Return***

Set



Return leftmost



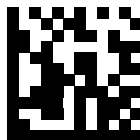
Truncate leftmost



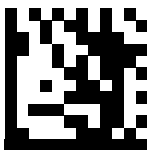
Return rightmost



Truncate rightmost



End



Set



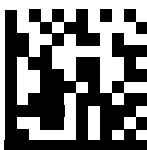
Return middle



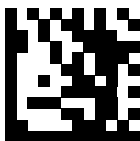
Truncate middle



Disable (Default)



End

***Set Plessey Truncate/Return***

Set



Return leftmost



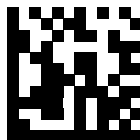
Truncate leftmost



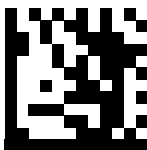
Return rightmost



Truncate rightmost



End



Set



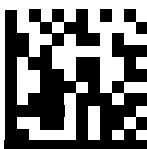
Return middle



Truncate middle

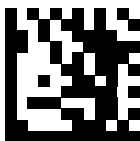


Disable (Default)



End

## *Set MSI (Modified Plessy) Truncate/Return*



Set



Return leftmost



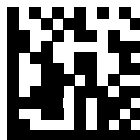
Truncate leftmost



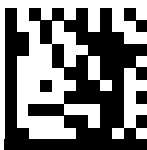
Return rightmost



Truncate rightmost



End



Set



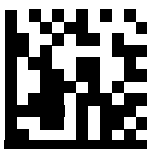
Return middle



Truncate middle



Disable (Default)



End

## *Set Interleaved 2 of 5 Truncate/Return*



Set



Return leftmost



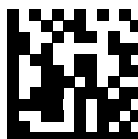
Truncate leftmost



Return rightmost

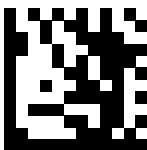


Truncate rightmost



End





Set



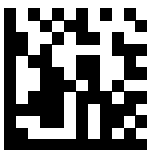
Return middle



Truncate middle



Disable (Default)



End

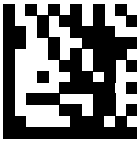
***Interleaved 2 of 5 (ITF).ReturnLeft.4***

Disable (default)



Enable

## *Set IATA 2 of 5 Truncate/Return*



Set



Return leftmost



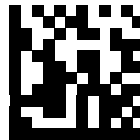
Truncate leftmost



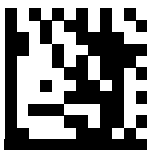
Return rightmost



Truncate rightmost



End



Set



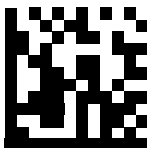
Return middle



Truncate middle



Disable (Default)



End

## *Set Matrix 2 of 5 Truncate/Return*



Set



Return leftmost



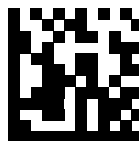
Truncate leftmost



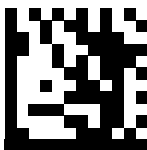
Return rightmost



Truncate rightmost



End



Set



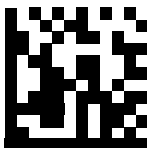
Return middle



Truncate middle

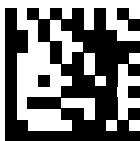


Disable (Default)



End

*Set Straight 2 of 5 Truncate/Return*



Set



Return leftmost



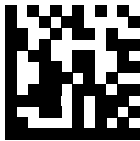
Truncate leftmost



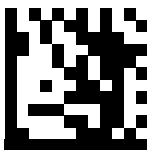
Return rightmost



Truncate rightmost



End



Set



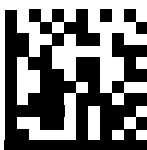
Return middle



Truncate middle

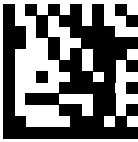


Disable (Default)



End



***Set RSS 14 (GS1 DataBar) Truncate/Return***

Set



Return leftmost



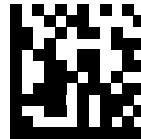
Truncate leftmost



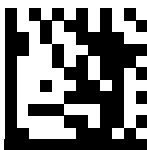
Return rightmost



Truncate rightmost



End



Set



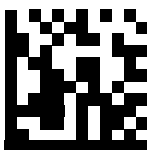
Return middle



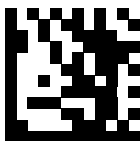
Truncate middle



Disable (Default)



End

***Set RSS Expanded (GS1 DataBar Expanded) Truncate/Return***

Set



Return leftmost



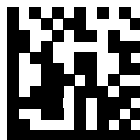
Truncate leftmost



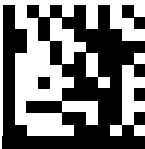
Return rightmost



Truncate rightmost



End



Set



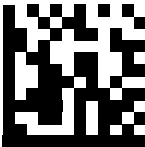
Return middle



Truncate middle



Disable (Default)



End

***Set RSS Limited (GS1 DataBar Limited) Truncate/Return***

Set



Return leftmost



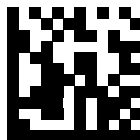
Truncate leftmost



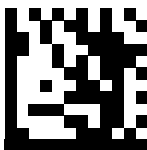
Return rightmost



Truncate rightmost



End



Set



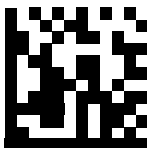
Return middle



Truncate middle

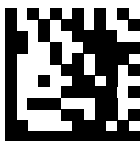


Disable (Default)



End

## *Set Component CC– A Truncate/Return*



Set



Return leftmost



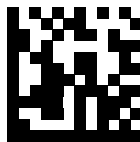
Truncate leftmost



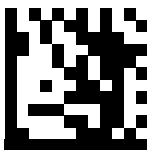
Return rightmost



Truncate rightmost



End



Set



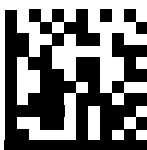
Return middle



Truncate middle



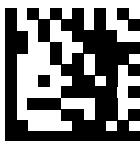
Disable (Default)



End



## *Set Component CC– B Truncate/Return*



Set



Return leftmost



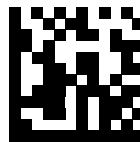
Truncate leftmost



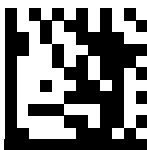
Return rightmost



Truncate rightmost



End



Set



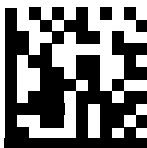
Return middle



Truncate middle

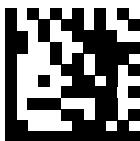


Disable (Default)



End

## *Set Component CC– C Truncate/Return*



Set



Return leftmost



Truncate leftmost



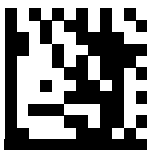
Return rightmost



Truncate rightmost



End



Set



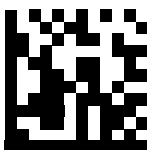
Return middle



Truncate middle



Disable (Default)



End

***Set PDF 417 Truncate/Return***

Set



Return leftmost



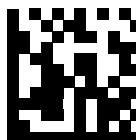
Truncate leftmost



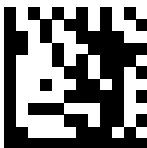
Return rightmost



Truncate rightmost



End



Set



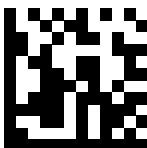
Return middle



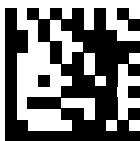
Truncate middle



Disable (Default)



End

***Set Micro PDF 417 Truncate/Return***

Set



Return leftmost



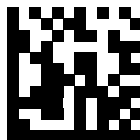
Truncate leftmost



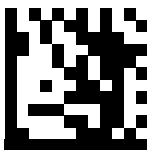
Return rightmost



Truncate rightmost



End



Set



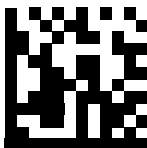
Return middle



Truncate middle



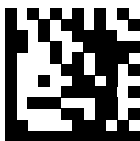
Disable (Default)



End



## *Set Data Martrix Truncate/Return*



Set



Return leftmost



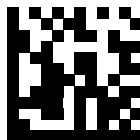
Truncate leftmost



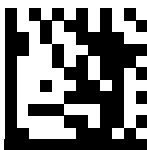
Return rightmost



Truncate rightmost



End



Set



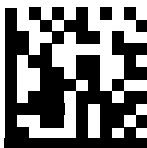
Return middle



Truncate middle

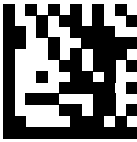


Disable (Default)



End

## *Set QR Truncate/Return*



Set



Return leftmost



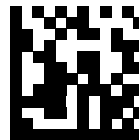
Truncate leftmost



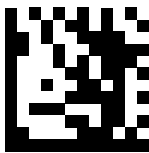
Return rightmost



Truncate rightmost



End



Set



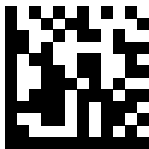
Return middle



Truncate middle



Disable (Default)



End

*Set Micro QR Truncate/Return*



Set



Return leftmost



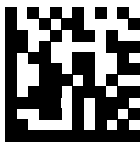
Truncate leftmost



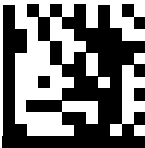
Return rightmost



Truncate rightmost



End



Set



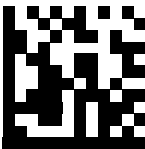
Return middle



Truncate middle

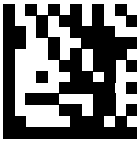


Disable (Default)



End

## *Set Aztec Truncate/Return*



Set



Return leftmost



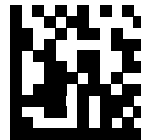
Truncate leftmost



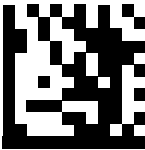
Return rightmost



Truncate rightmost



End



Set



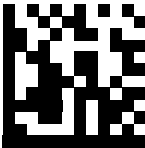
Return middle



Truncate middle



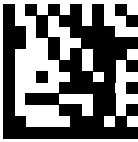
Disable (Default)



End



## *Set MaxiCode Truncate/Return*



Set



Return leftmost



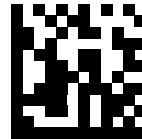
Truncate leftmost



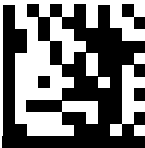
Return rightmost



Truncate rightmost



End



Set



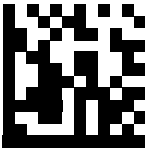
Return middle



Truncate middle



Disable (Default)



End

# Code Settings

---

## *Set Lengths for Codes*

- One Discrete Length

Select this option to decode the symbol containing a selected length.  
Select the length using the numeric bar codes in ASCII Code Table.

Example 1:

To decode Interleaved 2 of 5 symbols with 8 characters:

- scan Set to set up
- scan Interleaved 2 of 5 One Discrete Length
- scan 8 in ASCII Code Table
- scan End to confirm the setup

Example 2:

To decode Interleaved 2 of 5 symbols with 12 characters:

- scan Set to set up
- scan Interleaved 2 of 5 One Discrete Length
- scan scan 1 followed by 2 in ASCII Code Table
- scan End to confirm the setup

- Two Discrete Lengths

Select this option to decode the symbol containing either of two selected lengths.  
Select lengths using the numeric bar codes in ASCII Code Table.

Example:

To decode Code 128 symbols containing either 8 or 14 characters

- scan Set to set up
- scan Code 128 Two Discrete Length
- scan 0, 8, 1, and then 4 in ASCII Code Table
- scan End to confirm the setup

- Length Within Range

Select this option to decode the symbol with a specific length range.  
Select lengths using numeric bar codes in ASCII Code Table.

Example:

To decode Codabar symbols containing between 7 and 8 characters,

- a. scan Set to set up
- b. scan Codabar Length Within Range
- c. scan 0, 7, 0, and then 8 in ASCII Code Table
- d. scan End to confirm the setup

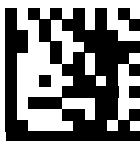
- Any Length

Select this option to decode the symbol containing any number of characters within the digital scanner's capability.

Example:

- a. scan Set to set up
- b. scan Matrix 2 of 5 Any Length
- c. scan End to confirm the setup

*Set Lengths for Code 128*



Set



One Discrete Length



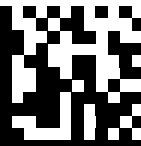
Two Discrete Lengths



Length Within Range

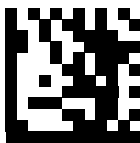


Any Length (Default)



End

*Set Lengths for Code 39*



Set



One Discrete Length



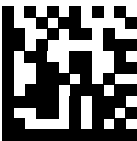
Two Discrete Lengths



Length Within Range

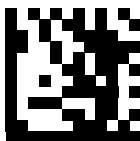


Any Length (Default)



End

*Set Lengths for Code 93*



Set



One Discrete Length



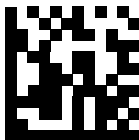
Two Discrete Lengths



Length Within Range

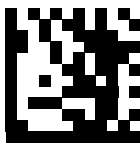


Any Length (Default)



End

*Set Lengths for Codabar*



Set



One Discrete Length



Two Discrete Lengths



Length Within Range



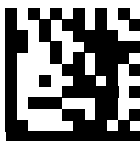
Any Length (Default)



End



## *Set Lengths for Interleaved 2 of 5*



Set



One Discrete Length



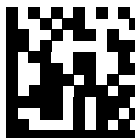
Two Discrete Lengths



Length Within Range

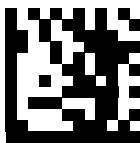


Any Length (Default)



End

*Set Lengths for Code 11*



Set



One Discrete Length



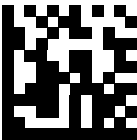
Two Discrete Lengths



Length Within Range



Any Length (Default)

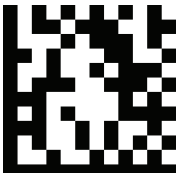


End

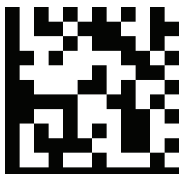
*Set Lengths for MSI*



Set



One Discrete Length



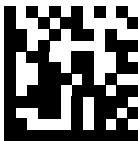
Two Discrete Lengths



Length Within Range



Any Length (Default)



End

*Set Lengths for Matrix 2 of 5*



Set



One Discrete Length



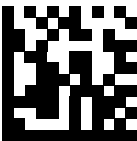
Two Discrete Lengths



Length Within Range



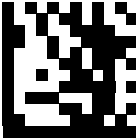
Any Length (Default)



End

## ***Code Identifiers***

Scan the following barcodes to set symbology Identifiers.



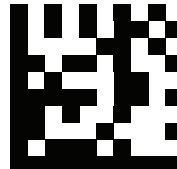
Set



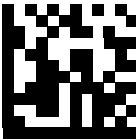
Disable Code ID (Default)



Enable factory standard ID



Enable AIM ID



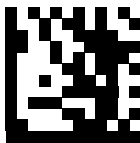
End

**Code Identifiers Table**

<b>Symbology</b>	<b>Factory Standard</b>	<b>AIM</b>
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	]X
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
RSS 14 (GS1 DATABAR 14)	RS	]e
RSS Expanded (GS1 DataBar Expanded)	RX	]e
RSS Limited (GS1 DataBar Limited)	RL	]e
Component CC-A	m	]e
Component CC-B	n	]e
Component CC-C	i	]e
PDF417	r	]L
Micro PDF417	s	]L
Data Matrix	t	]d
QR	u	]Q
Micro QR	j	]Q
Aztec	e	]Z
MaxiCode	v	]U

## Keyboard Caps Lock State

Scan a barcode below to turn Caps on or off.



Set



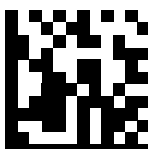
Caps Lock Off (Default)



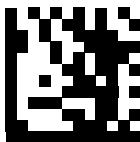
Caps Lock On



Override



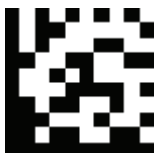
End



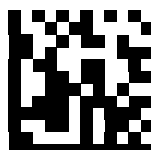
Set



Alphabet always upper case



Alphabet always Lower case

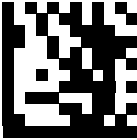


End



## ***Function Key Mapping***

Scan the following barcodes to enable or disable Function Key Mapping.



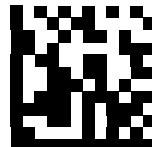
Set



Disable Function Key Mapping (Default)



Enable Function Key Mapping



End

### ***Function Key Extended***

Scan the following barcodes to enable or disable Function Key Extended. Enable Function Key Extended change the Function Key from [Left-CTRL] to [Right-CTRL].



Set



Disable Function Key Extended (Default)



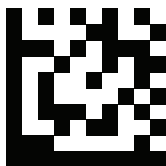
Enable Function Key Extended



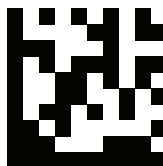
End

**ASCII Code**

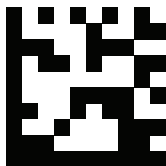
For parameters requiring specific numeric values, scan the appropriately numbered barcode(s).



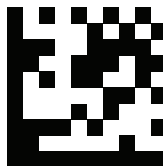
Space



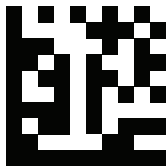
!



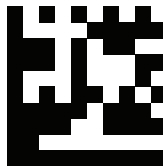
"



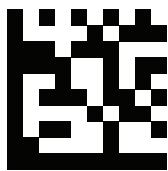
#



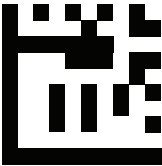
\$



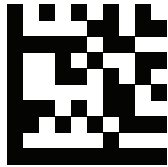
%



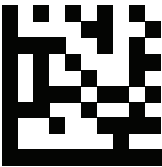
&



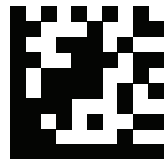
,



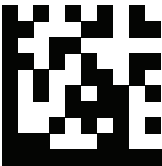
(



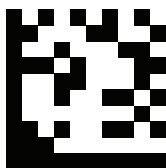
)



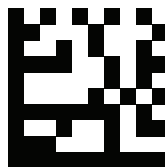
\*



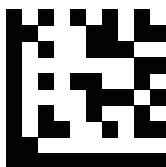
+



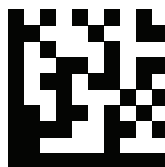
,



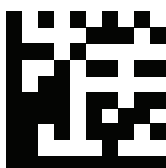
-



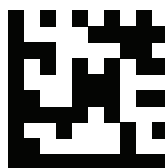
.



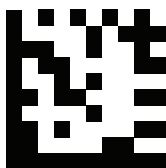
/



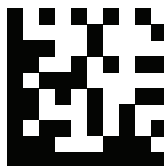
:



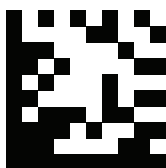
;



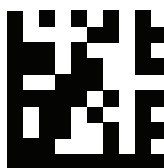
<



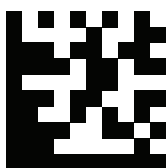
=



>



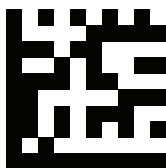
?



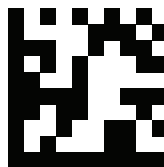
@



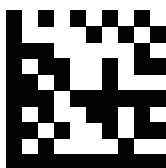
Enter



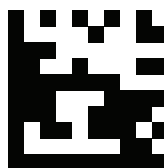
0



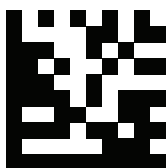
1



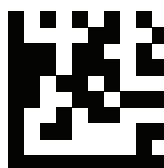
2



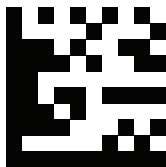
3



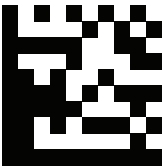
4



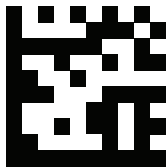
5



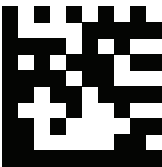
6



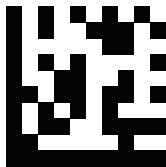
7



8

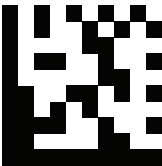


9



A

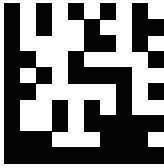
(Function Key  
Mapping: Ctrl+a)



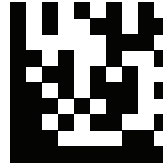
B

(Function Key  
Mapping: Ctrl+b)

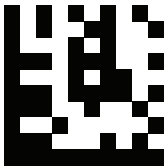




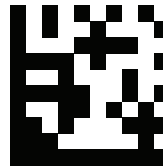
C  
(Function Key  
Mapping: Ctrl+c)



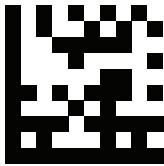
D  
(Function Key  
Mapping: Ctrl+d)



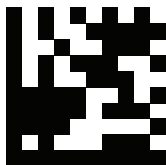
E  
(Function Key  
Mapping: Ctrl+e)



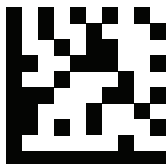
F  
(Function Key  
Mapping: Ctrl+f)



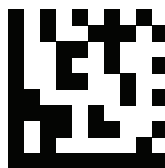
G  
(Function Key  
Mapping: Ctrl+g)



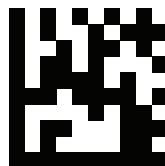
I  
(Function Key  
Mapping: Ctrl+i)



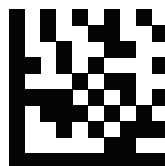
K  
(Function Key  
Mapping: Ctrl+k)



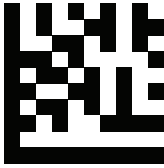
H  
(Function Key  
Mapping: Ctrl+h)



J  
(Function Key  
Mapping: Ctrl+j)

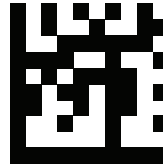


L  
(Function Key  
Mapping: Ctrl+l)



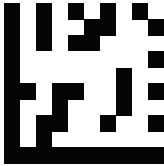
M

(Function Key  
Mapping: Ctrl+m)



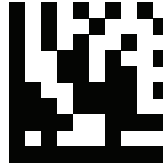
N

(Function Key  
Mapping: Ctrl+n)



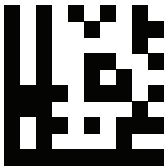
O

(Function Key  
Mapping: Ctrl+o)



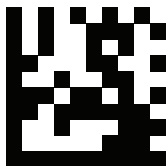
P

(Function Key  
Mapping: Ctrl+p)

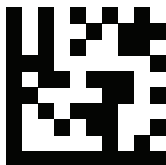


Q

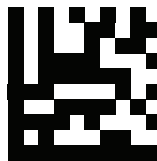
(Function Key  
Mapping: Ctrl+q)



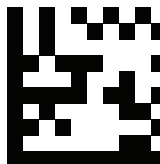
S  
(Function Key  
Mapping: Ctrl+s)



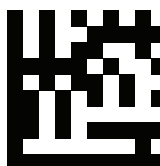
U  
(Function Key  
Mapping: Ctrl+u)



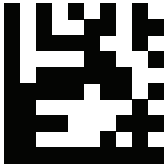
R  
(Function Key  
Mapping: Ctrl+r)



T  
(Function Key  
Mapping: Ctrl+t)

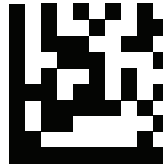


V  
(Function Key  
Mapping: Ctrl+v)



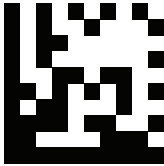
W

(Function Key  
Mapping: Ctrl+w)



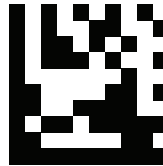
X

(Function Key  
Mapping: Ctrl+x)



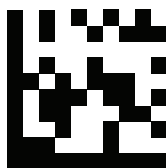
Y

(Function Key  
Mapping: Ctrl+y)

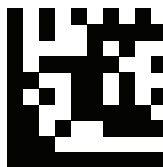


Z

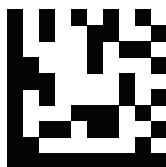
(Function Key  
Mapping: Ctrl+z)



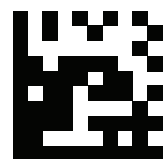
a



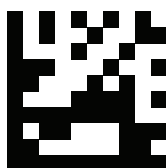
b



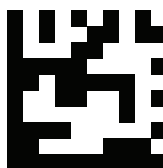
c



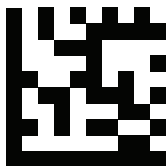
d



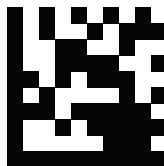
e



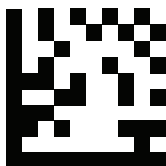
f



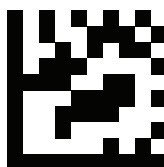
g



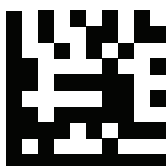
h



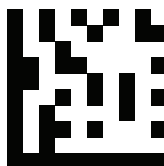
i



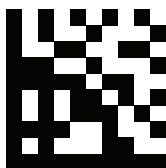
j



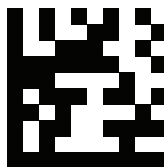
k



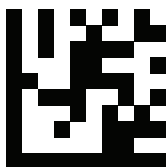
l



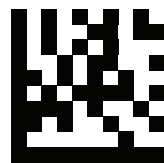
m



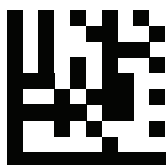
n



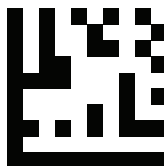
o



p

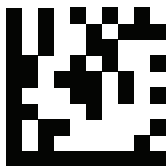


q

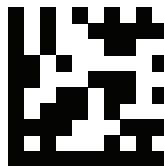


r

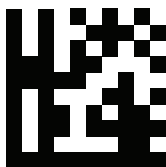




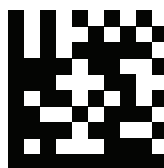
s



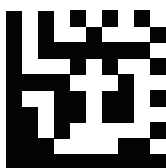
t



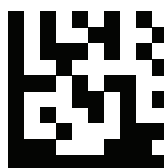
u



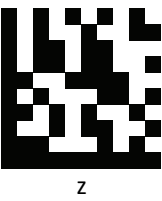
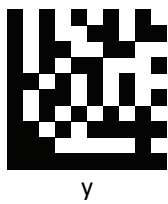
v



w



x





Insert



Delete



Home



End



Up arrow



Down arrow



Left arrow



Right arrow



Tab



Backspace



Shift



ESC



Page up



Page down



F1



F2



F3



F4



F5



F6



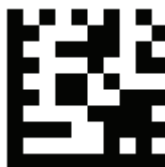
F7



F8



F9



F10



F11

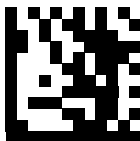


F12

## USB Virtual COM Driver Installing

If you use virtual COM port emulation, follow the steps below to start using the scanner.

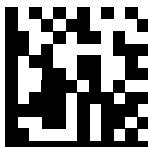
1. Execute the driver (ZEBEX VCOM Driver Installation.exe).
2. Connect the scanner USB cable to the host computer.
3. Set the interface to USB Virtual COM Port.



Set

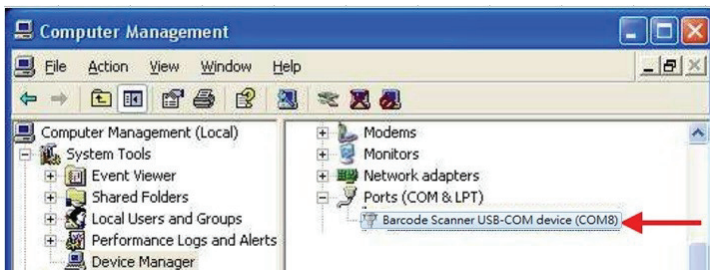


USB Virtual COM Port  
\*Driver required



End

4. On the computer, check Device Manager to see if the computer successfully detects the scanner as “Barcode Scanner USB-COM device.” (The COM port number would vary depending on different hardware environment).





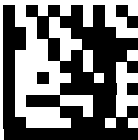
# JavaPOS Setting

---

This section provides the programming barcodes for setting JavaPOS and the flow of installing JavaPOS driver.

## **JavaPOS**

Scan the following barcodes to enable or disable JavaPOS.



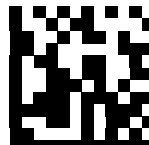
Set



JPOS Enable



JPOS Disable (Default)



End

## ***JavaPOS Version***

Our JavaPOS driver now is compatible with JavaPOS1.7.

## ***Install the Java2 Runtime Environment***

The JRE is Java's virtual machine that allows for applications to run on the host computer. To be able to run the JavaPOS application, you need a 1.7 version JRE. Ignore the following steps if you already have a JavaPOS1.7 or a later version in your host computer.

- Go to <http://java.sun.com>, and select this version of Java Runtime Environment.
- Install the program following the instructions.

## ***Install the Service Object and JavaPOS files***

In the "\Driver" folder, there are two files: ZbtJavapos.jar and jpos.xml. Please include ZbtJavapos.jar at your CLASSPATH and also copy the related "JPosEntry" option from the jpos.xml to your application's jpos.xml.

## ***How to use RS232 scanner with JavaPOS Driver***

Install the Java RXTXcomm API

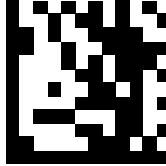
In the \RXTXcomm folder, there are four files: rxtxSerial.dll , rxtxParallel.dll, and RXTXcomm.jar. Please do the following steps to install the library.

1. Copy rxtxSerial.dll and rxtxParallel.dll to C:\Windows\system32.
2. Copy RXTXcomm.jar to your <JRE Install Folder>\lib directory.

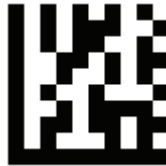
## ***Use barcodes to configure the scanner***

JavaPOS configuration barcodes:

Set



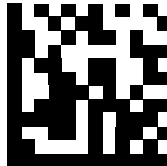
RS-232



JPOS Enable



End



## Running the JavaPOS Test utility

Please run the test application POStest.sh to evaluate your installation.

## How to use JavaPOS driver at your application

1. Add “ZbtJavaPos.jar” from the “\Driver” folder to the CLASSPATH and copy the related “JPosEntry” option from the “jpos.xml”.
2. Modify the jpos.xml based on your COM Port
3. Example of jpos.xml file content

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE JposEntries PUBLIC "-//JavaPOS//DTD//EN"
    "jpos/res/jcl.dtd">

<JposEntries>
<!--Saved by JavaPOS jpos.config/loader (JCL) version 2.2.0 on 2010/3/11 10:16-->

    <JposEntry logicalName="Z3172P">
        <creation factoryClass="com.zbt.jpos.ZbtJposServiceInstanceFactory"
serviceClass="com.zbt.jpos.ScannerService"/>
        <vendor name="" url=""/>
        <jpos category="Scanner" version="1.7"/>
        <product description="Scanners" name="Scanner" url=""/>

        <!--Other non JavaPOS required property (mostly vendor properties and bus specific
properties i.e. RS232 )-->
        <prop name="deviceType" type="String" value="2D"/>
        <prop name="deviceBus" type="String" value="RS232"/>
        <prop name="baudRate" type="String" value="9600"/>
        <prop name="parity" type="String" value="None"/>
        <prop name="portName" type="String" value="COM1"/>
        <prop name="flowControl" type="String" value="None"/>
        <prop name="stopBits" type="String" value="1"/>
        <prop name="dataBits" type="String" value="8"/>
    </JposEntry>

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE JposEntries PUBLIC "-//JavaPOS//DTD//EN"
    "jpos/res/jcl.dtd">

<JposEntries>

</JposEntries>
```

Note: The default baud rate : 2D scanner =9600

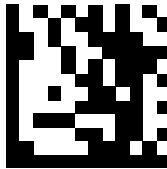
## ***How to use USB scanner with JavaPOS Driver***

Configuring the Scanner via barcodes:

- Scan the barcodes in the sequence below to configure the scanner to usb-serial mode.

**JavaPOS configuration bar codes:**

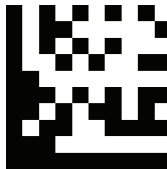
Set



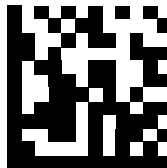
USB Virtual COM Port



JPOS Enable



End



## ***Install the Java RXTXcomm API***

In the \RXTXcomm folder, there are four files: rtxSerial.dll , rtxParallel.dll, and RXTXcomm.jar. Please do the following steps to install the library.

1. Copy rtxSerial.dll and rtxParallel.dll to C:\Windows\system32
2. Copy RXTXcomm.jar to your <JRE Install Folder>\lib directory.

## ***Running the JavaPOS Test utility***

Please run the test application to evaluate your installation.

## How to Use JavaPOS Driver at your application

1. In the “\Driver” folder, copy “ZbtJavaPos.jar” and “jpos.xml” to your work folder.
2. Modify the jpos.xml .
3. Example of jpos.xml file content

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE JposEntries PUBLIC "-//JavaPOS//DTD//EN"
    "jpos/res/jcl.dtd">

<JposEntries>
<!--Saved by JavaPOS jpos.config/loader (JCL) version 2.2.0 on 2010/3/11 10:16-->

    <JposEntry logicalName="Z3172P">
        <creation factoryClass="com.zbt.jpos.ZbtJposServiceInstanceFactory"
serviceClass="com.zbt.jpos.ScannerService"/>
        <vendor name="" url=""/>
        <jpos category="Scanner" version="1.7"/>
        <product description="Scanners" name="Scanner" url=""/>

        <!--Other non JavaPOS required property (mostly vendor properties and bus specific properties i.e.
RS232 )-->
            <prop name="deviceType" type="String" value="2D"/>
            <prop name="deviceBus" type="String" value="RS232"/>
            <prop name="baudRate" type="String" value="115200"/>
            <prop name="parity" type="String" value="None"/>
            <prop name="portName" type="String" value="COM56"/>
            <prop name="flowControl" type="String" value="None"/>
            <prop name="stopBits" type="String" value="1"/>
            <prop name="dataBits" type="String" value="8"/>
        </JposEntry>

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE JposEntries PUBLIC "-//JavaPOS//DTD//EN"
    "jpos/res/jcl.dtd">

<JposEntries>

</JposEntries>
```