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Programming Guide

Advanced 2D Image Scanner

This Programming Guide is intended for:

- **2D Image Hands-Free Scanner: Z-8072 Plus**

Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0	2018/08/16	Initial release
1.1	2018/11/16	Added new Code 32, data editing, and phone features

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.

Table of Contents

Using the Scanner

Beeper Indication

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 handheld imaging 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

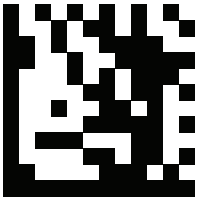
Show Version

Scan this barcode to display firmware version.

Read device information

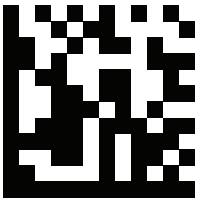
System Settings

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



Set

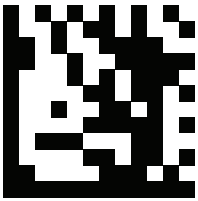
Factory default settings



End

Customer's Factory Default

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



Set

Save customer's factory default

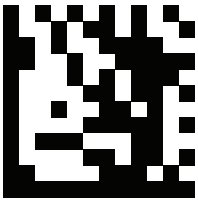
Delete customer's factory default

End

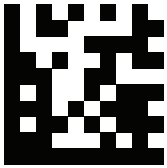
Scan Mode

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

Presentation and Continue Scan modes allow automatic scan when barcodes are present in front of the scanner. In Continue Scan mode, the scan LED stays active and continues to decode. Trigger mode allows triggered scans.

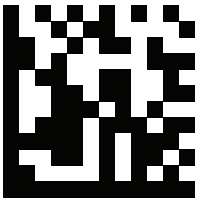


Set



Presentation Mode
(Default)

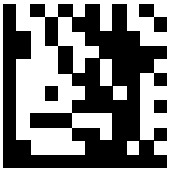
Continue Scan Mode



End

Same Code Delay Time for Continue Scan Mode

Scan a barcode below to select the duration of the delay time for scan code.

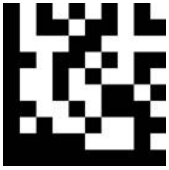


Set

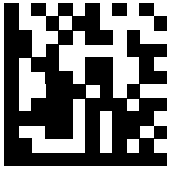
500 msec

1 sec (Default)

1.5 sec



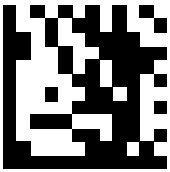
2 sec



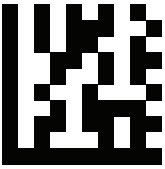
End

Interface Switch

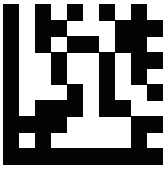
Your 2D Imager supports interfaces such as USB HID, RS232 serial, and USB virtual COM. To switch the interface, simply select the appropriate cable and configure the proper interface by following interface selection.



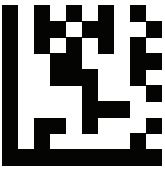
Set



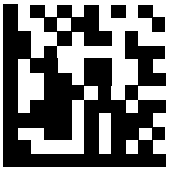
RS-232



USB Keyboard (Default)



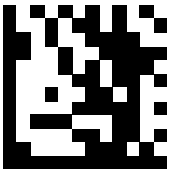
USB Virtual COM Port
*Driver required



End

Good Read Beep Length

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



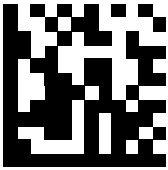
Set

50 msec (Default)

100 msec

150 msec

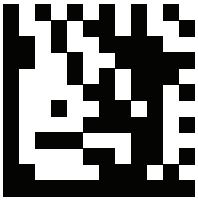
200 msec



End

Good Read Beep Frequency

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

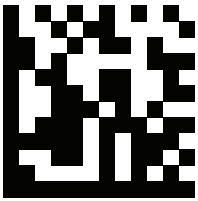


Set

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 Off (Default)

End

Motion Detect Sensibility

Set

Level 1 (Low)

Level 2

Level 3 (Default)

Level 4

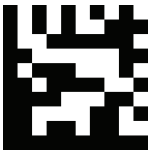
Level 5 (High)

End

Phone Mode

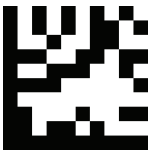
LED turns to orange when Phone mode is enabled.

Set

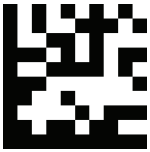


Phone key enable
Trigger key is used for Phone mode switch

Phone key disable (Default)
Trigger key is used for scanning

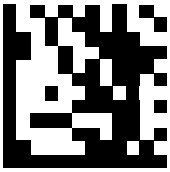


Phone mode enable

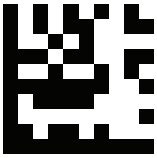


Phone mode disable (Default)

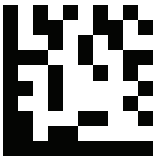
End



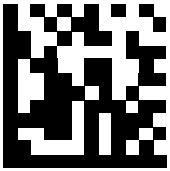
Set



Phone mode enable
(Illumination LED Standby off)

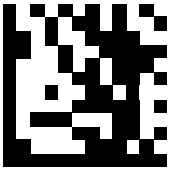


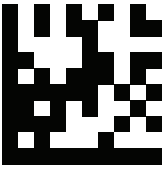
Phone mode enable
(Illumination LED Standby Low)

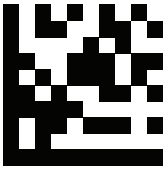


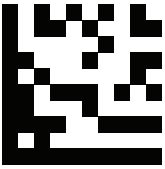
End

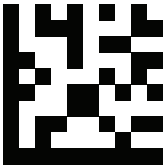
Terminal Character

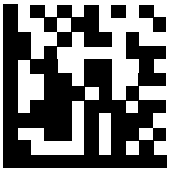

Set


None


CR/LF (Default)

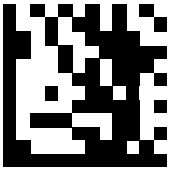

CR


TAB

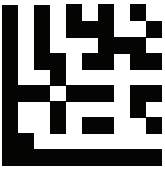

End

RS232 Baud Rate

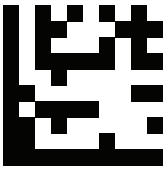
Baud rate is the number of bits of data transmitted per second. Set the imager's baud rate to match the baud rate setting of the host device. Otherwise, data may not reach the host device or may reach it in distorted form.



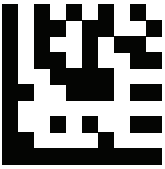
Set



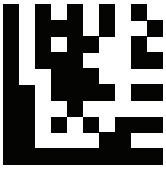
9600



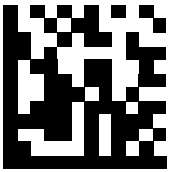
19200



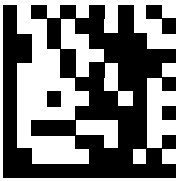
38400



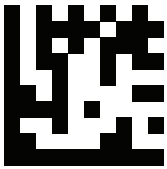
57600



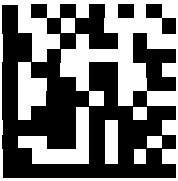
End



Set



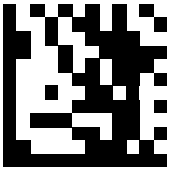
115200 (Default)



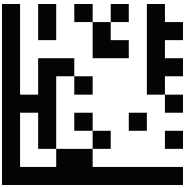
End

RS232 Parity Bit

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

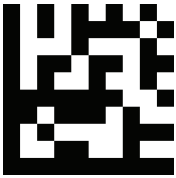


Set

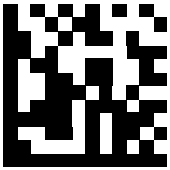


None (Default)

Even parity



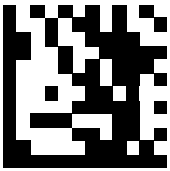
Odd parity



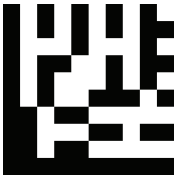
End

RS232 Stop Bit

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

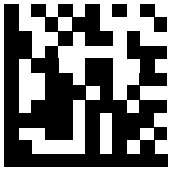


Set



1 Stop Bit (Default)

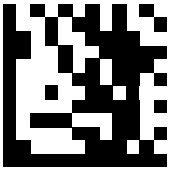
2 Stop Bit



End

RS232 Data Bit

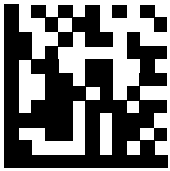
Data bit sets the word length at 7 or 8 bits of data per character.



Set

CS7

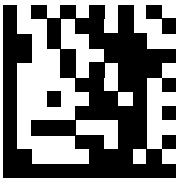
CS8 (Default)



End

USB Speed

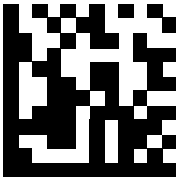
Scann the following settings to change the USB speed.



Set

USB 2.0 (Default)

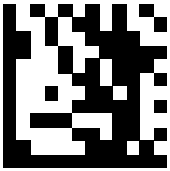
USB 1.1



End

Country Code

Scann the following settings to change the country code.



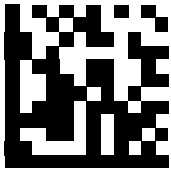
Set

US (Default)

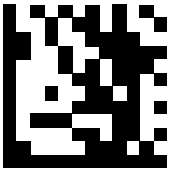
Belgium

Britain

Denmark



End



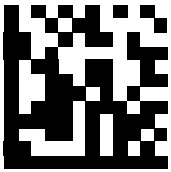
Set

France

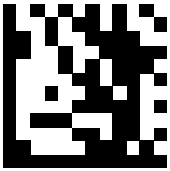
Germany

Italy

Norway



End



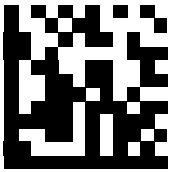
Set

Portugal

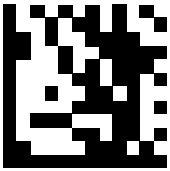
Spain

Sweden

Switzerland



End



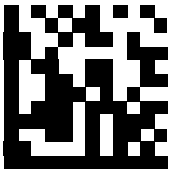
Set

Japan

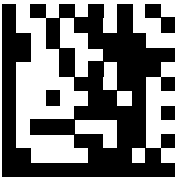
Hungary

Czech Republic

Slovakia



End

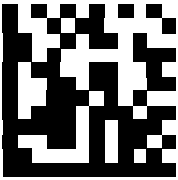


Set

Romania

Croatia

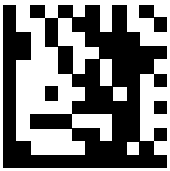
Poland



End

Persian/Arabic Language Encoding Support

Scann the following settings to change the encoding options.

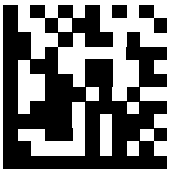


Set

UTF-8 (Default)

ISO 8859-6

CP1256 (WINDOWS-1256)

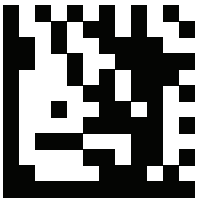


End

Readable Symbologies

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

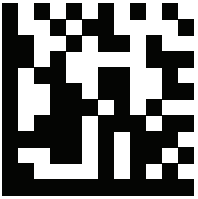
All Symbologies



Set

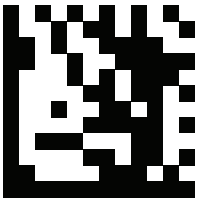
Enable All

Default



End

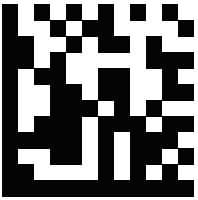
UPC-A



Set

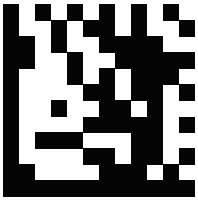
Enable UPC-A (Default)

Disable UPC-A



End

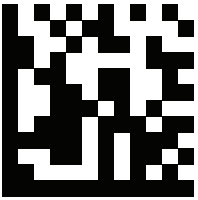
UPC-E



Set

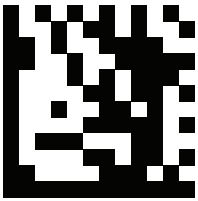
Enable UPC-E (Default)

Disable UPC-E



End

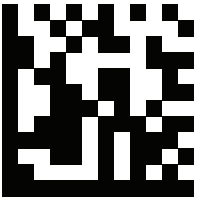
EAN-8



Set

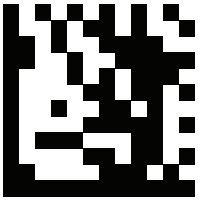
Enable EAN 8 (Default)

Disable EAN 8



End

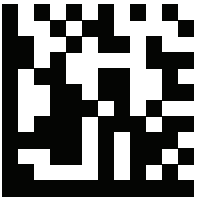
EAN 13



Set

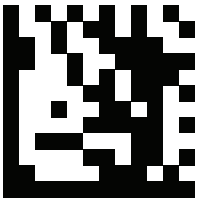
Enable EAN 13 (Default)

Disable EAN 13



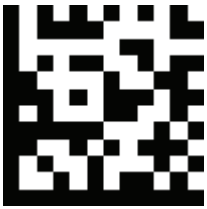
End

JAN code for Books

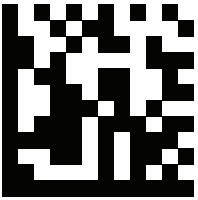


Set

Enable

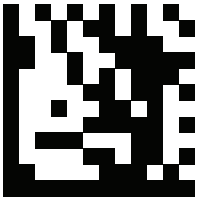


Disable (Default)



End

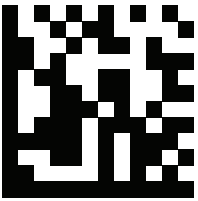
Code 128



Set

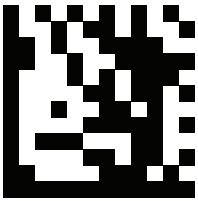
Enable Code 128 (Default)

Disable Code 128



End

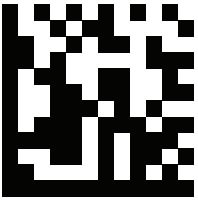
Code 39



Set

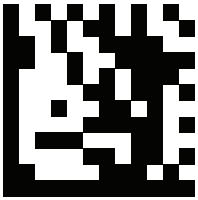
Enable Code 39 (Default)

Disable Code 39



End

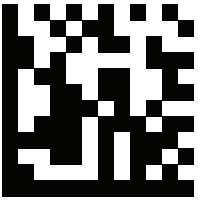
Code 93



Set

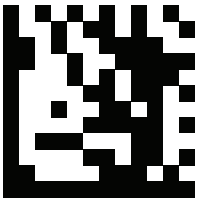
Enable Code 93 (Default)

Disable Code 93



End

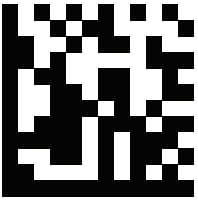
Code 32



Set

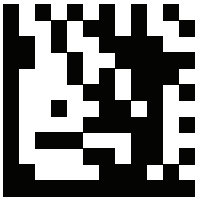
Enable Code 32

Disable Code 32 (Default)



End

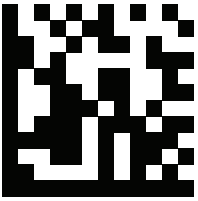
Code 11



Set

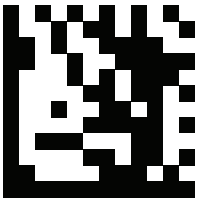
Enable Code 11

Disable Code 11 (Default)



End

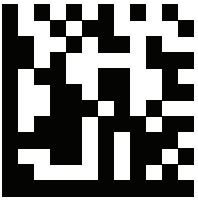
Codabar



Set

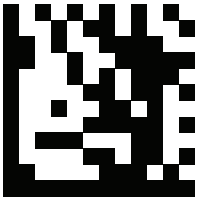
Enable Codabar (Default)

Disable Codabar



End

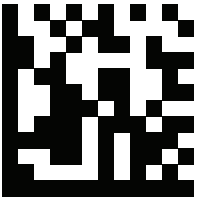
Plessey



Set

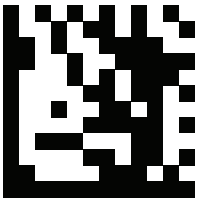
Enable Plessey

Disable Plessey (Default)



End

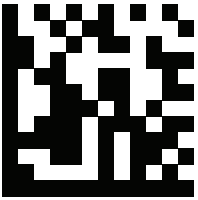
MSI/Plessy



Set

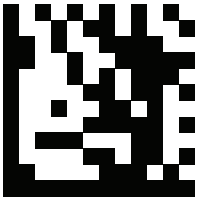
Enable MSI/Plessy

Disable MSI/Plessy (Default)



End

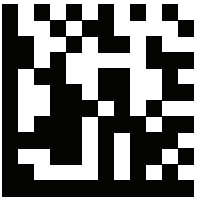
Interleaved 2 of 5



Set

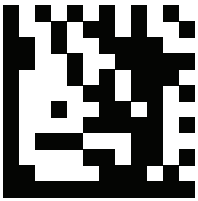
Enable Interleaved 2 of 5 (Default)

Disable Interleaved 2 of 5



End

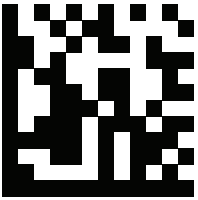
IATA 2 of 5



Set

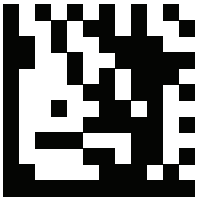
Enable IATA 2 of 5

Disable IATA 2 of 5 (Default)



End

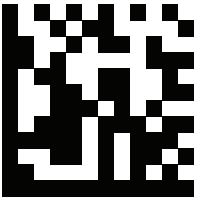
Matrix 2 of 5



Set

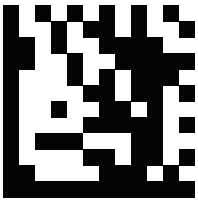
Enable Matrix 2 of 5

Disable Matrix 2 of 5 (Default)



End

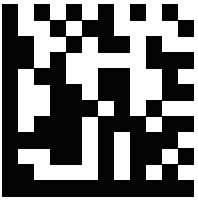
Straight 2 of 5



Set

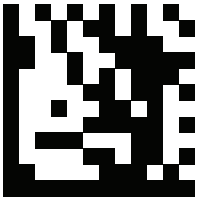
Enable Straight 2 of 5

Disable Straight 2 of 5 (Default)



End

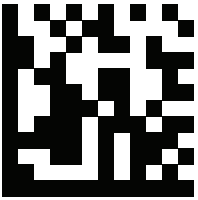
RSS 14



Set

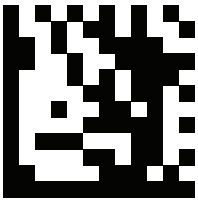
Enable RSS 14 (Default)

Disable RSS 14



End

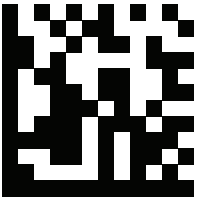
RSS Expanded



Set

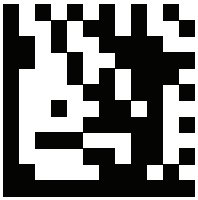
Enable RSS Expanded (Default)

Disable RSS Expanded



End

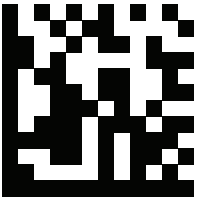
RSS Limited



Set

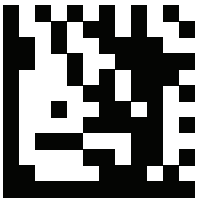
Enable RSS Limited (Default)

Disable RSS Limited



End

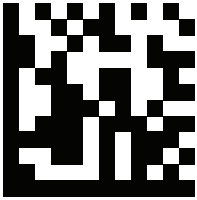
GS1-128 AIM ID



Set

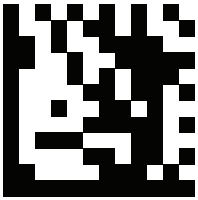
Enable

Disable (Default)



End

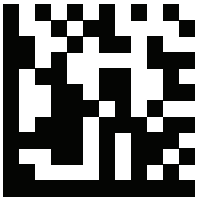
GS1-2D AIM ID



Set

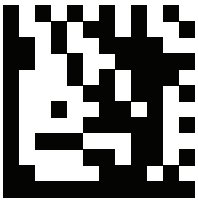
Enable

Disable (Default)



End

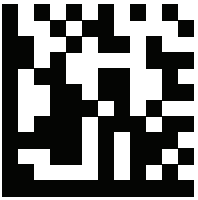
Component CC-A



Set

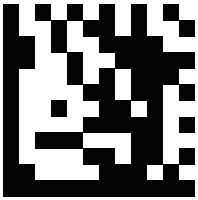
Enable Component CC-A

Disable Component CC-A (Default)



End

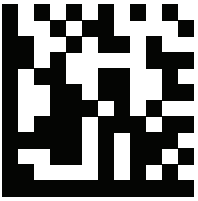
Component CC-B



Set

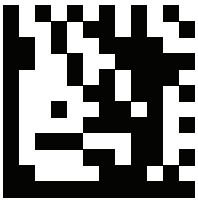
Enable Component CC-B

Disable Component CC-B (Default)



End

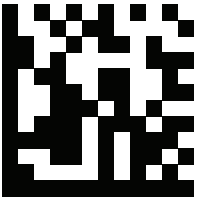
Component CC-C



Set

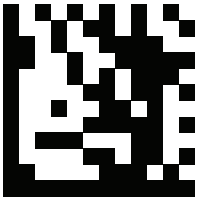
Enable Component CC-C

Disable Component CC-C (Default)



End

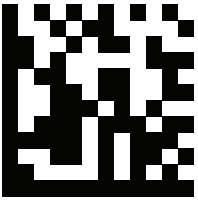
PDF417



Set

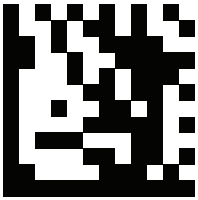
Enable PDF417 (Default)

Disable PDF417



End

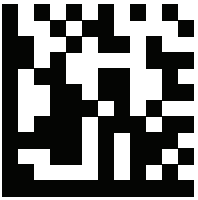
Micro PDF417



Set

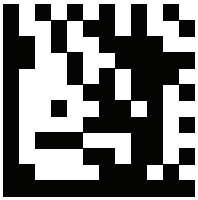
Enable Micro PDF417 (Default)

Disable Micro PDF417



End

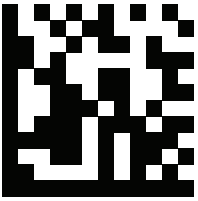
Data Matrix



Set

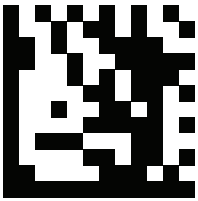
Enable Data Matrix (Default)

Disable Data Matrix



End

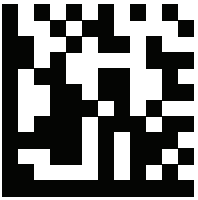
QR Code



Set

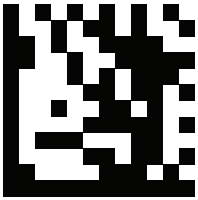
Enable QR Code (Default)

Disable QR Code



End

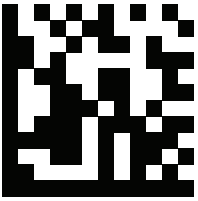
Micro QR Code



Set

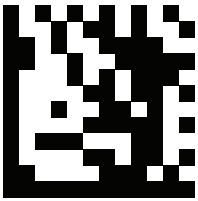
Enable Micro QR Code (Default)

Disable Micro QR Code



End

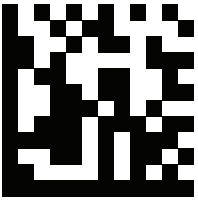
Aztec



Set

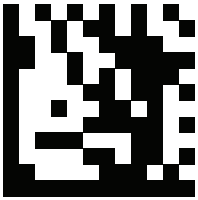
Enable Aztec

Disable Aztec (Default)



End

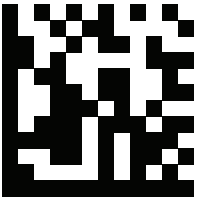
MaxiCode



Set

Enable MaxiCode

Disable MaxiCode (Default)

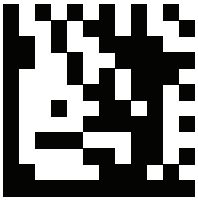


End

Symbology Features

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

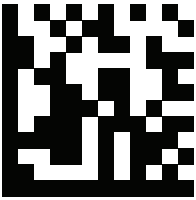
UPC / EAN



Set

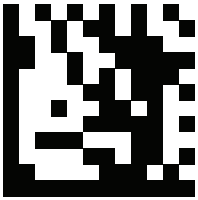
Enable decoding of 2/5-digit supplemental code for UPC-A, UPC-E, EAN-13, and EAN-8

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

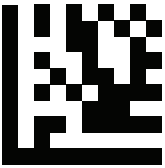


End

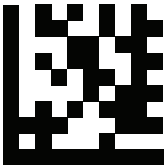
UPC-A



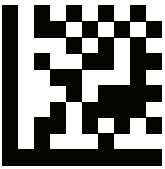
Set



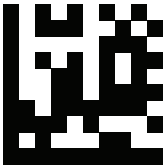
Enable UPC-A Number System digit (Default)



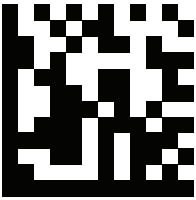
Disable UPC-A Number System digit



Enable UPC-A check digit (Default)



Disable UPC-A check digit



End

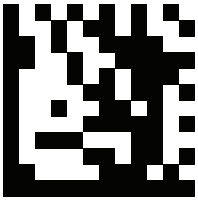
Set

Enable conversion of UPC-A to EAN13

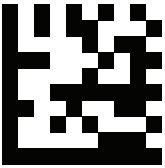
Disable conversion of UPC-A to EAN13
(Default)

End

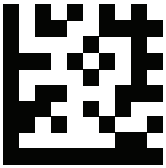
UPC-E



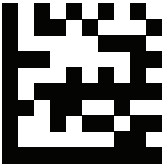
Set



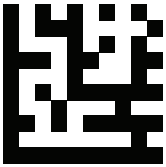
Enable UPC-E Number System digit (Default)



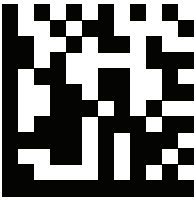
Disable UPC-E Number System digit



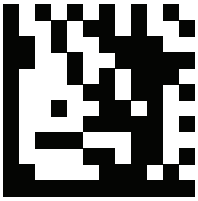
Enable UPC-E check digit (Default)



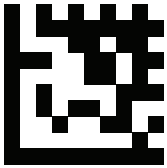
Disable UPC-E check digit



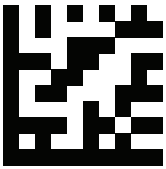
End



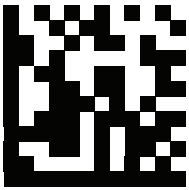
Set



Enable conversion of UPC-E to UPC-A

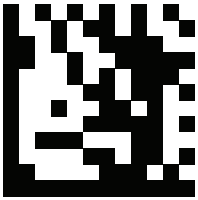


Disable conversion of UPC-E to UPC-A
(Default)

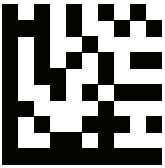


End

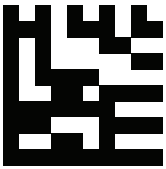
EAN 8



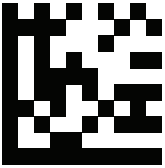
Set



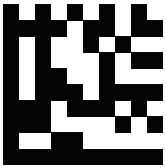
Enable EAN 8 check digit (Default)



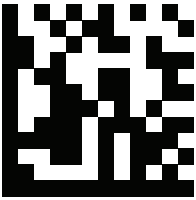
Disable EAN 8 check digit



Enable conversion of EAN 8 to EAN 13

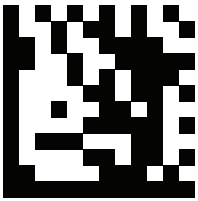


Disable conversion of EAN 8 to EAN 13 (Default)

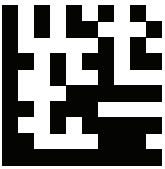


End

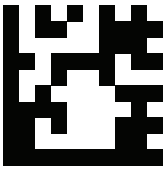
EAN 13



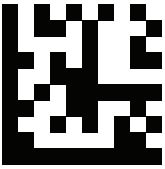
Set



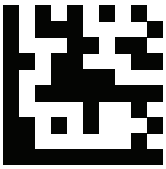
Enable EAN 13 check digit (Default)



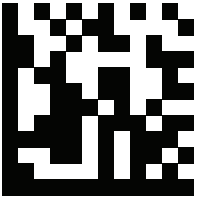
Disable EAN 13 check digit



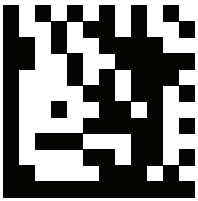
Enable conversion of EAN 13 to ISBN



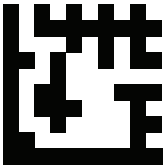
Disable conversion of EAN 13 to ISBN (Default)



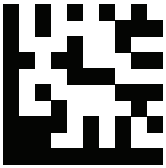
End



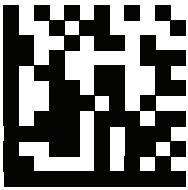
Set



Enable conversion of EAN 13 to ISSN

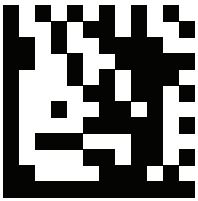


Disable conversion of EAN 13 to ISSN
(Default)

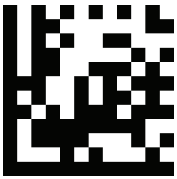


End

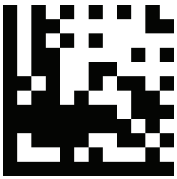
EAN 13 Data Redundant Check



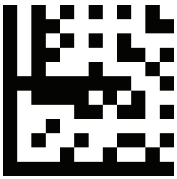
Set



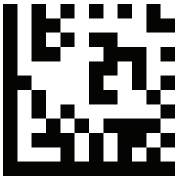
Off



1 (Default)



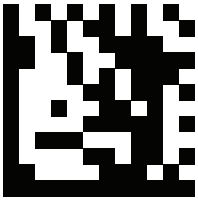
2



3

End

JAN code for Books Separator

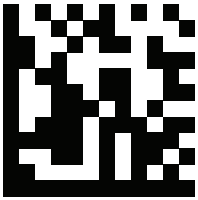


Set

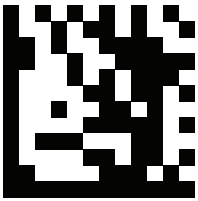
[TAB] key x 2

[SPACE] key x 3

[-] dash char



End



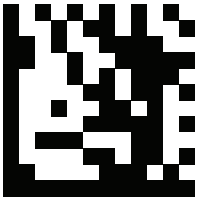
Set

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

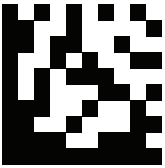
None(Default)

End

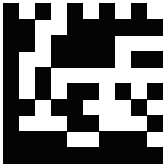
Code 39



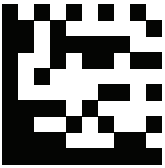
Set



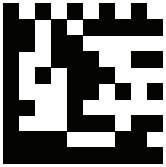
Enable Code 39 full ASCII mode



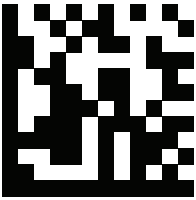
Disable Code 39 full ASCII mode (Default)



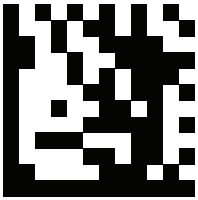
Enable Start and Stop characters



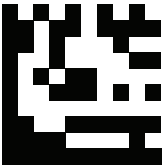
Disable Start and Stop characters (Default)



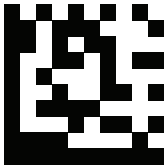
End



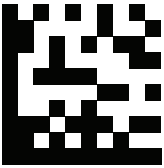
Set



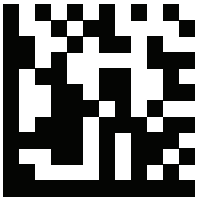
Disable Checksum (Default)



Enable checksum and send check character

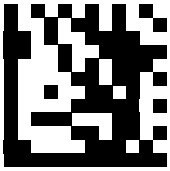


Enable checksum and strip check character



End

Code 39 Redundant Check



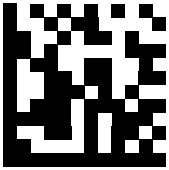
Set

Off

1 (Default)

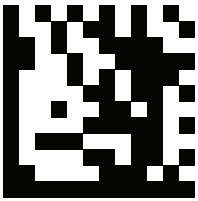
2

3

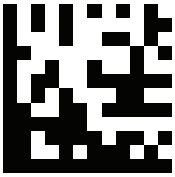


End

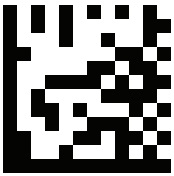
Code 32 (Italian Pharmacode)



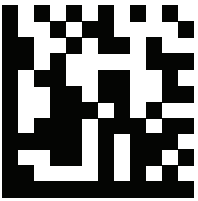
Set



Transmit
Alphabet “A” char

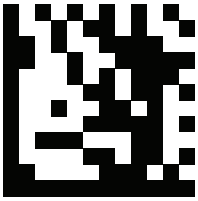


Disable Transmit
Alphabet “A” char
(Default)

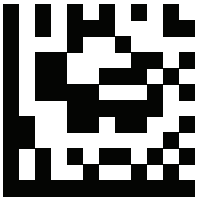


End

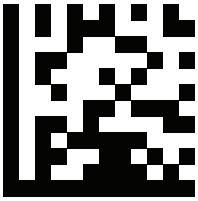
Codabar



Set

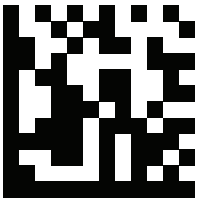


Disable Checksum (Default)

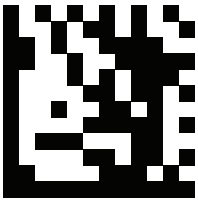


Enable checksum and send check character

Enable checksum and strip check character



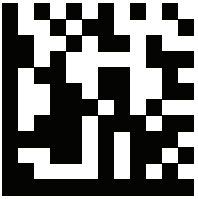
End



Set

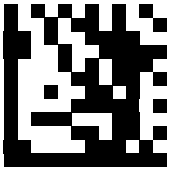
Enable stripping Start and Stop characters

Disable stripping Start and Stop characters
(Default)



End

Codabar Redundant Check



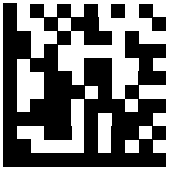
Set

Off

1 (Default)

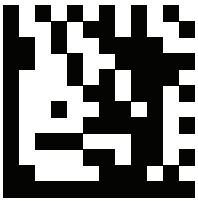
2

3

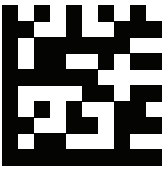


End

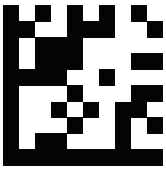
Interleaved 2 of 5



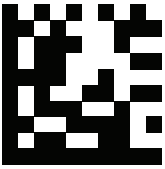
Set



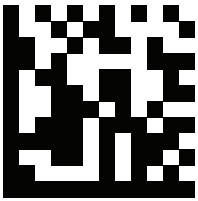
Disable Checksum (Default)



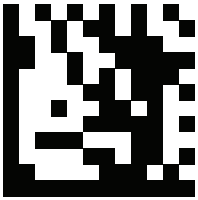
Enable checksum and send check character



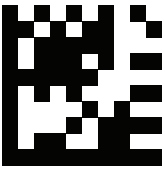
Enable checksum and strip check character



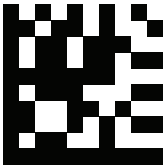
End



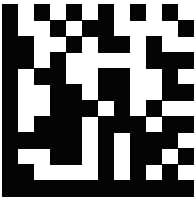
Set



Default quiet zone checking
No length checking performed (Default)

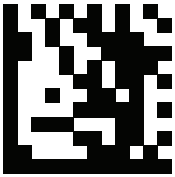


Smaller quiet zone allowed

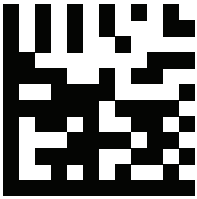


End

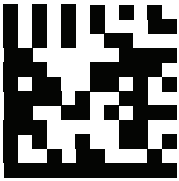
MSI / Plessey



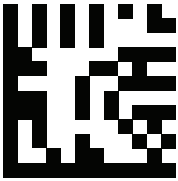
Set



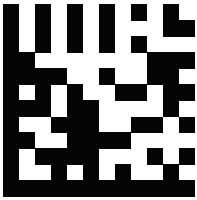
Disable MSI Plessey checksum



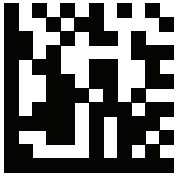
Mod 10 checksum (Default)



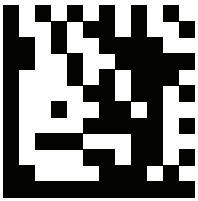
Mod 10/10 checksum



Mod 11/10 checksum

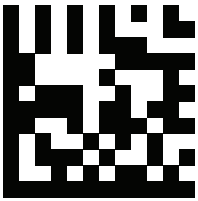


End



Set

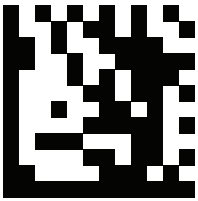
Output checksum character(s) (Default)



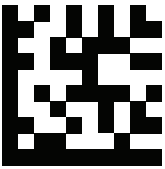
Strip checksum character(s)

End

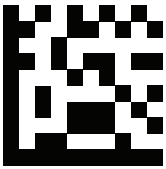
Code 11



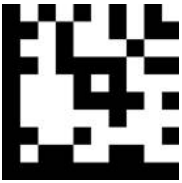
Set



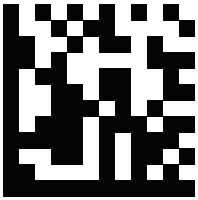
Output checksum character(s)



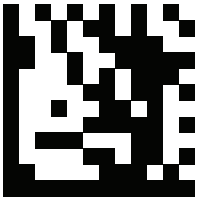
Strip checksum character(s) (Default)



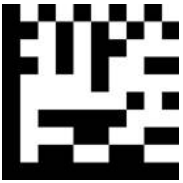
Disable checksum checking



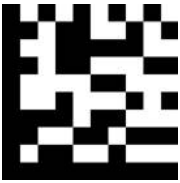
End



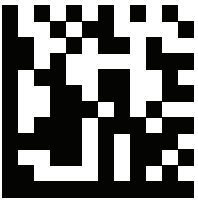
Set



Enable 1-digit checksum checking

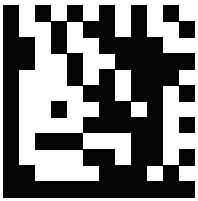


Enable 2-digit checksum checking
(Default)

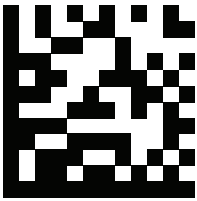


End

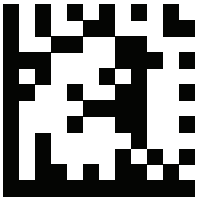
Data Matrix



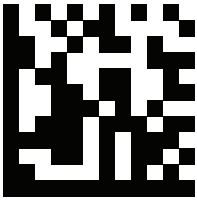
Set



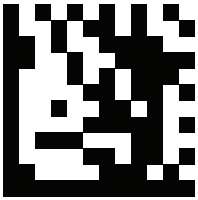
Enable mirror decoding (Default)



Disable mirror decoding



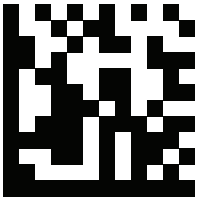
End



Set

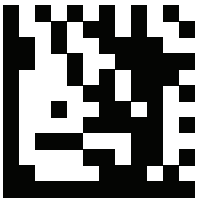
Enable rectangular Data Matrix decoding

Disable rectangular Data Matrix decoding
(Default)

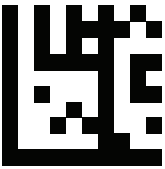


End

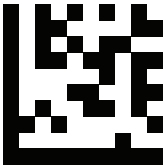
QR / Micro QR



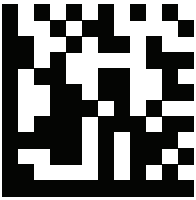
Set



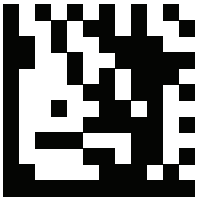
Enable mirror decoding (Default)



Disable mirror decoding



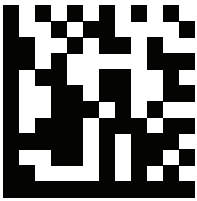
End



Set

UTF8 conversion for word only

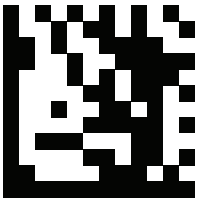
Universal UTF8 conversion (Default)



End

Note: Please install QR_UTF8_Conversion executable file before using this function.

Japanese Language Encoding Support



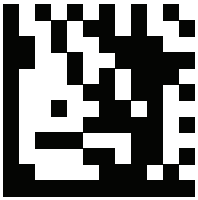
Set

Enable

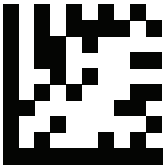
Disable (Default)

End

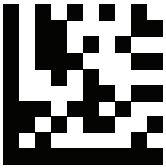
Aztec



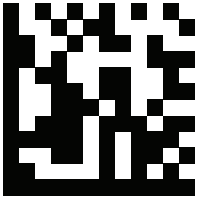
Set



Enable mirror decoding (Default)



Disable mirror decoding



End

Data Editing (Prefix)

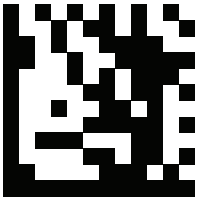
Prefix is additional characters that can be sent before the scanned data. Please scan the barcodes in the selection below to set your prefix.

Prefix Set Up Flow

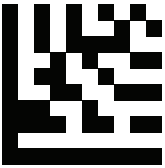
1. Scan Set.
2. Enable barcode type.
3. Scan prefix you would like to add characters within ASCII Table. Up to 4 digits can be added.
4. Scan End.

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.

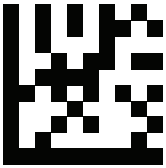
All Prefix



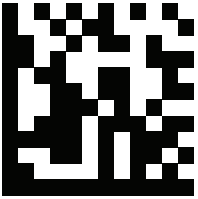
Set



Enable All

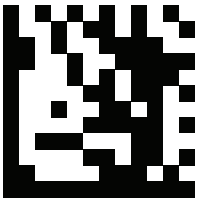


Disable All (Default)

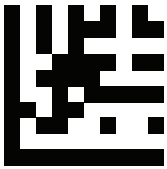


End

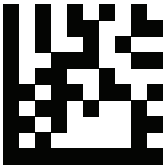
UPC / EAN Prefix



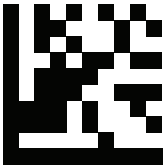
Set



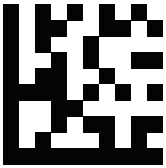
Enable UPC-A



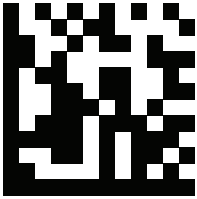
Disable UPC-A



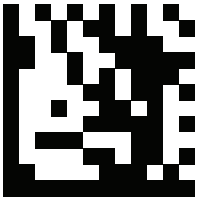
Enable UPC-E



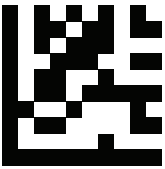
Disable UPC-E



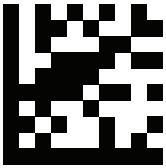
End



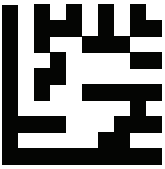
Set



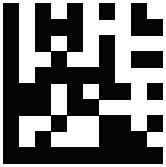
Enable EAN 8



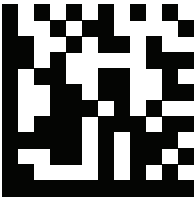
Disable EAN 8



Enable EAN 13

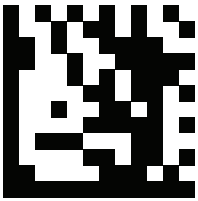


Disable EAN 13

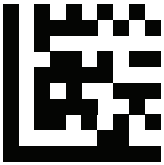


End

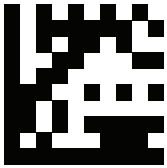
Code 128 Prefix



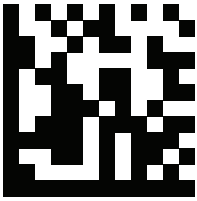
Set



Enable Code 128

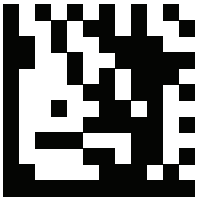


Disable Code 128

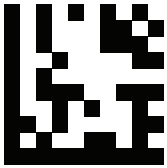


End

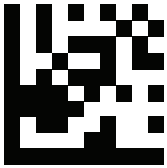
Code 39 Prefix



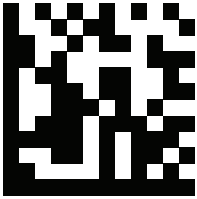
Set



Enable Code 39

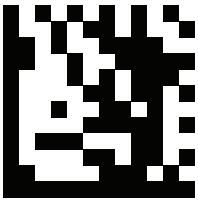


Disable Code 39

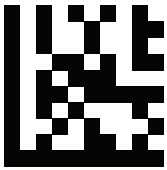


End

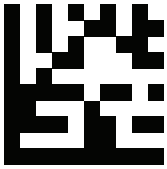
Code 93 Prefix



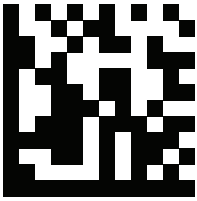
Set



Enable Code 93

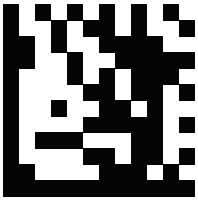


Disable Code 93

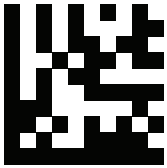


End

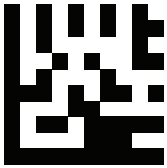
Code 32 Prefix



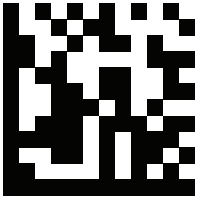
Set



Enable Code 32

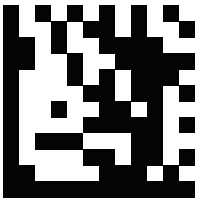


Disable Code 32

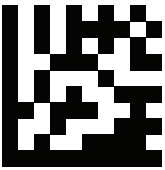


End

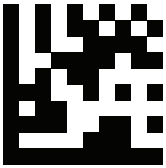
Code 11 Prefix



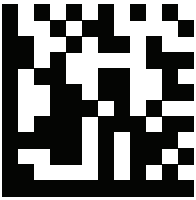
Set



Enable Code 11

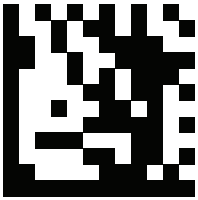


Disable Code 11

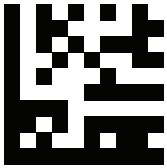


End

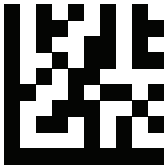
Codabar Prefix



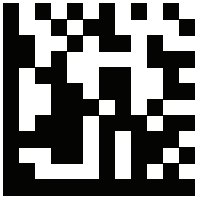
Set



Enable Codabar

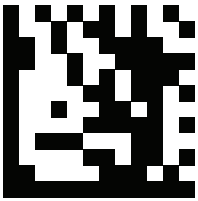


Disable Codabar

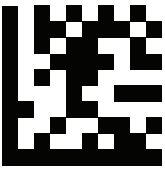


End

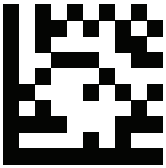
Plessey Prefix



Set



Enable Plessey



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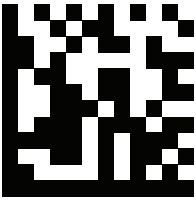

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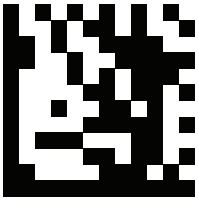

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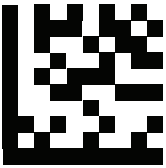

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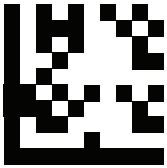

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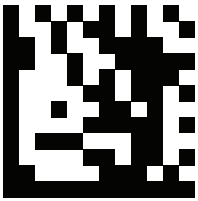

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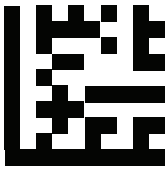

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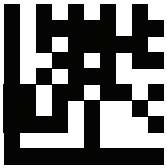

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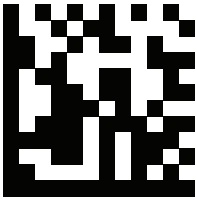

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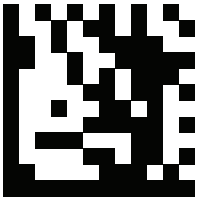

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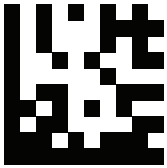

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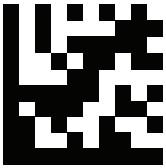

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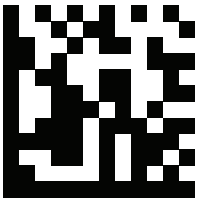

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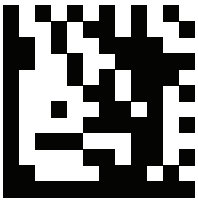

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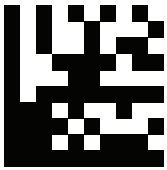

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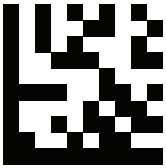

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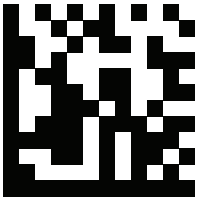

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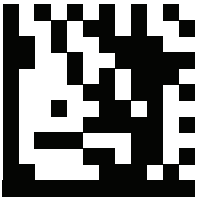

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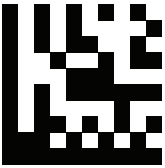

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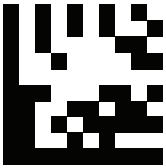

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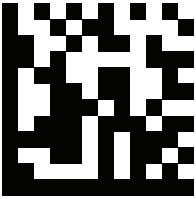

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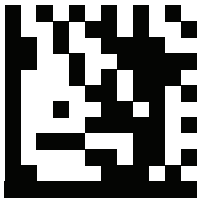

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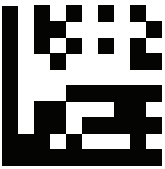

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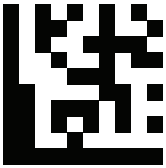

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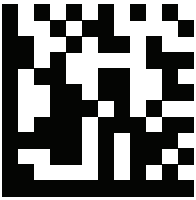

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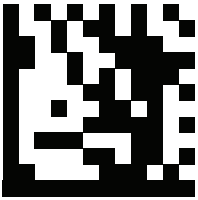

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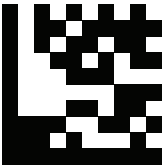

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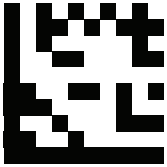

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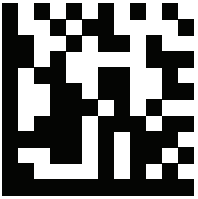

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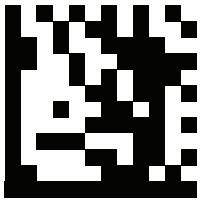

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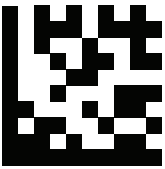

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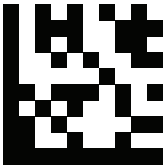

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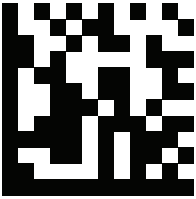

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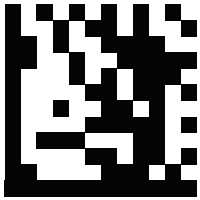

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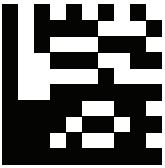

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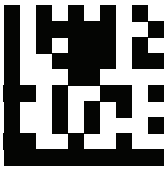

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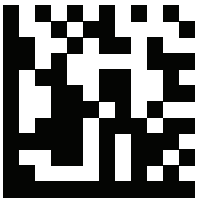

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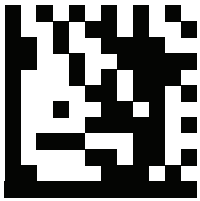

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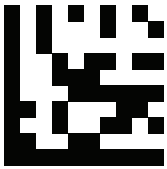

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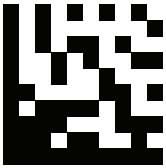

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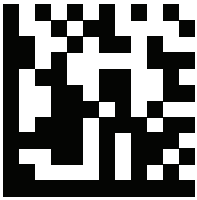

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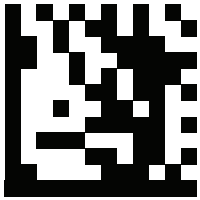

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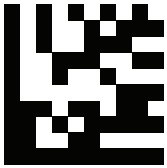

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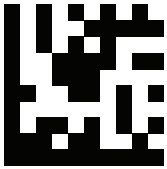

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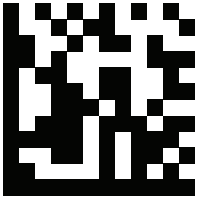

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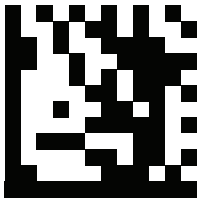

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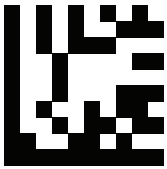

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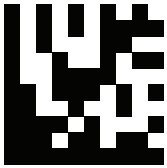

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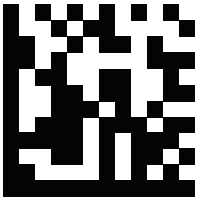

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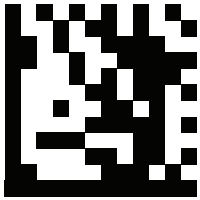

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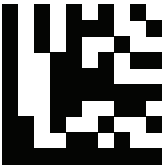

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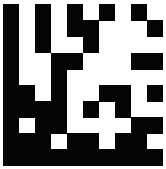

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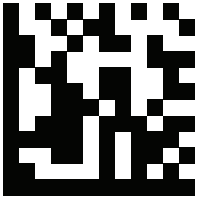

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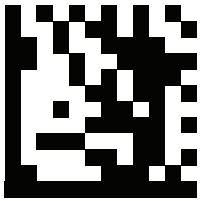

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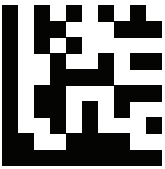

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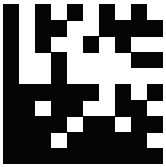

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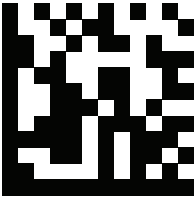

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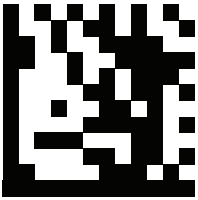

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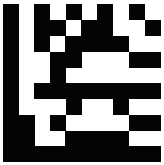

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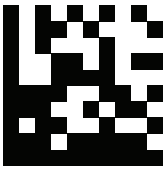

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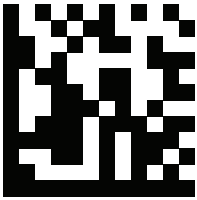

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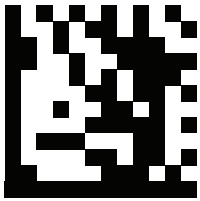
Micro QR Prefix



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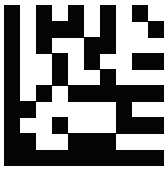
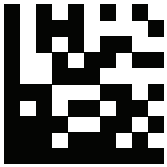
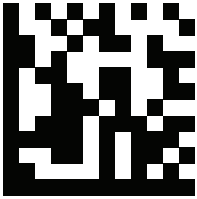


Enable Micro QR



Disable Micro QR



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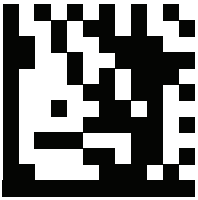
Aztec Prefix



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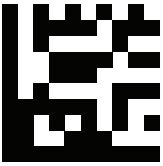

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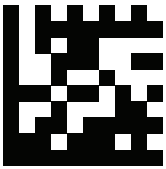

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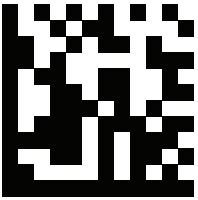

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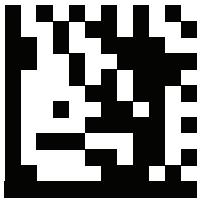
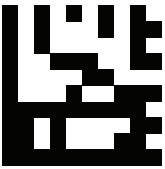
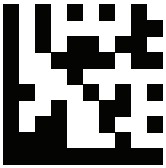
MaxiCode Prefix



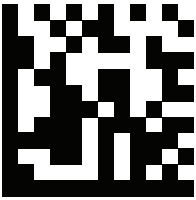
Set



Enable MaxiCode



Disable MaxiCode



End

Data Editing (Suffix)

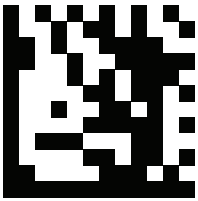
Suffix is additional characters that can be sent after the scanned data. Please scan the barcodes in the selection below to set your suffix.

Suffix Set Up Flow

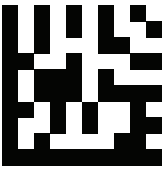
1. Scan Set.
2. Enable barcode type.
3. Scan suffix you would like to add characters within ASCII Table. Up to 4 digits can be added.
4. Scan End.

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.

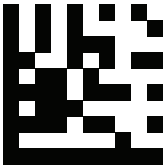
All Suffix



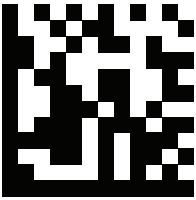
Set



Enable All

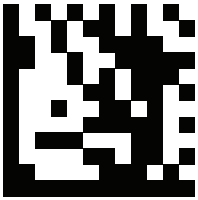


Disable All (Default)



End

UPC-A Suffix



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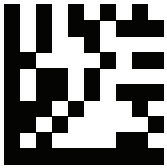
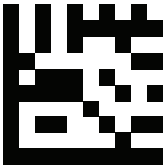
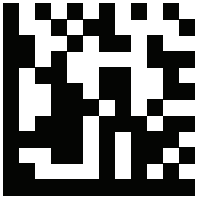


Enable UPC-A

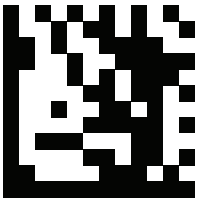


Disable UPC-A

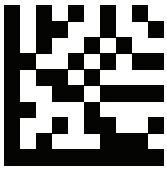


End

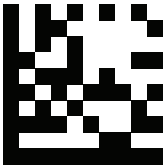
UPC-E Suffix



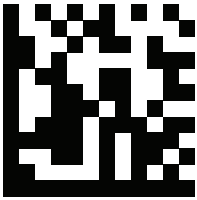
Set



Enable UPC-E

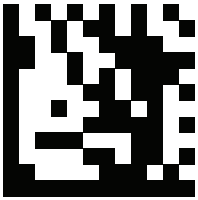


Disable UPC-E

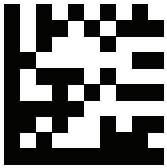


End

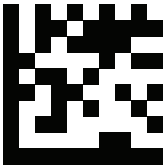
EAN 8 Suffix



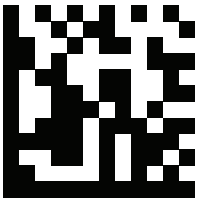
Set



Enable EAN 8

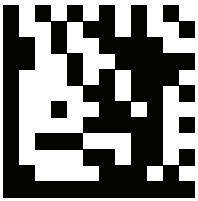


Disable EAN 8



End

EAN 13 Suffix



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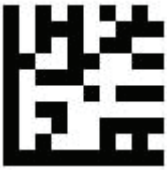
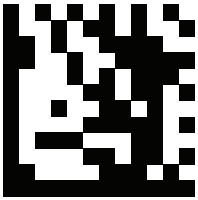


Enable EAN 13

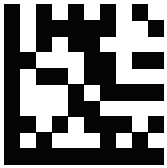
Disable EAN 13

End

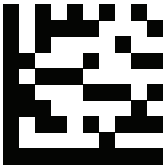
Code 128 Suffix



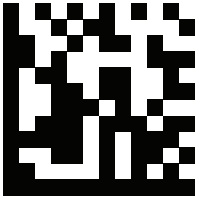
Set



Enable Code 128



Disable Code 128



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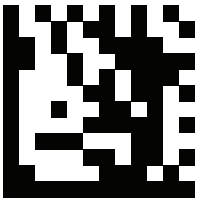
Code 39 Suffix



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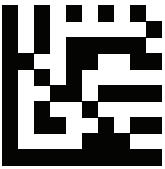
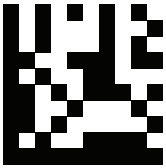


Enable Code 39



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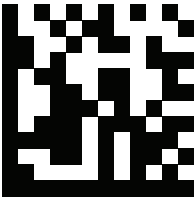

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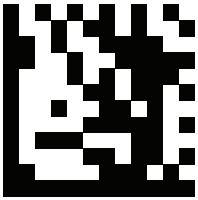
Code 93 Suffix



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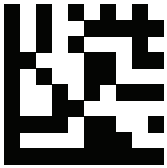
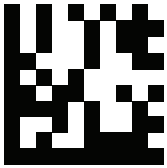
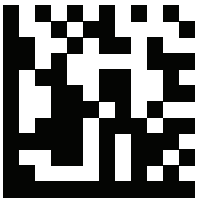


Enable Code 93



Disable Code 93



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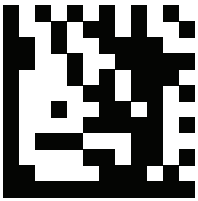
Code 32 Suffix



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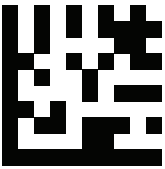
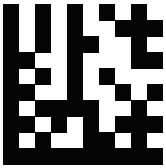
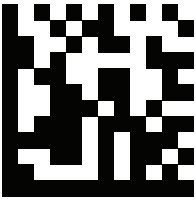


Enable Code 32

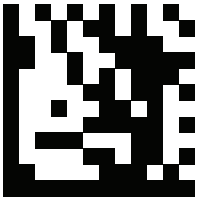


Disable Code 32



End

Code 11 Suffix



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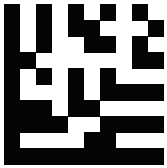
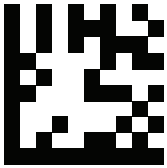
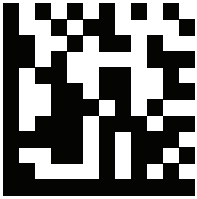


Enable Code 11

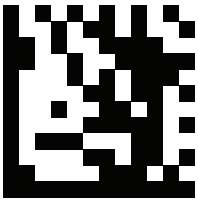


Disable Code 11



End

Codabar Suffix



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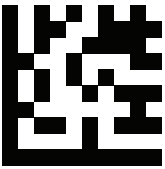
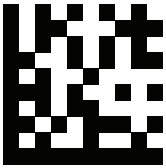
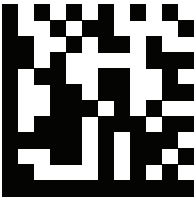


Enable Codabar



Disable Codabar



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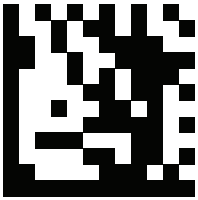
Plessey Suffix



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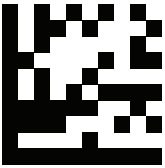
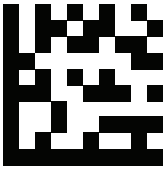


Enable Plessey



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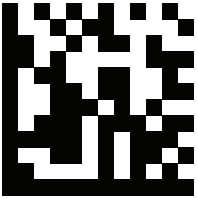

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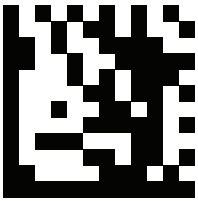

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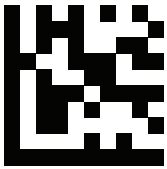

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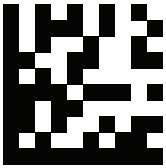

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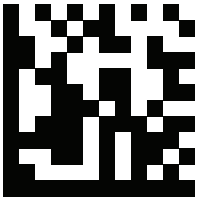

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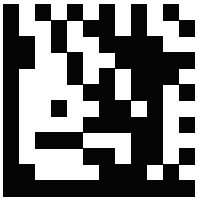

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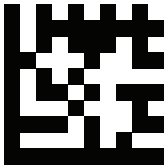

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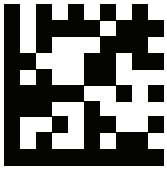

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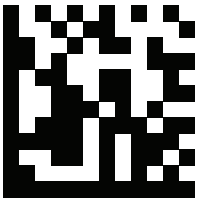

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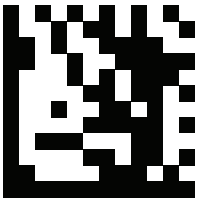

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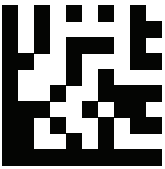

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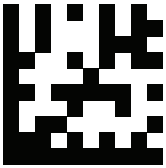

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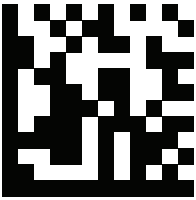

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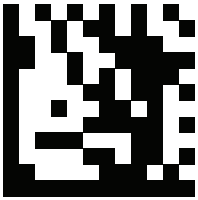

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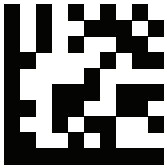

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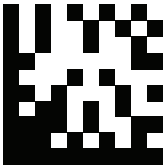

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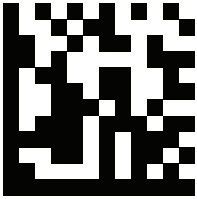

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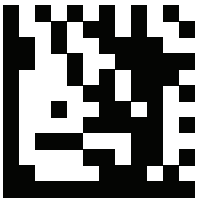

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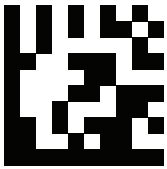

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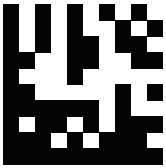

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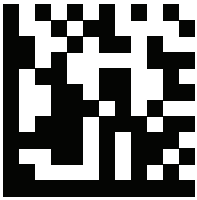

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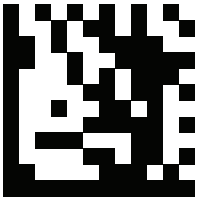
RSS 14 Suffix



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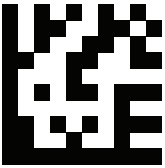

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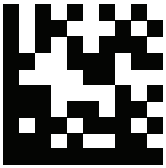

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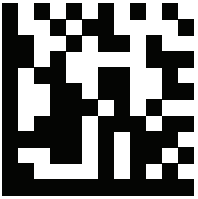

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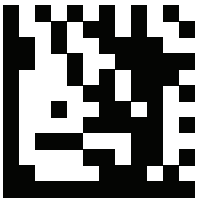

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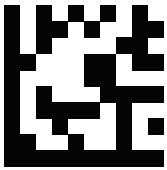

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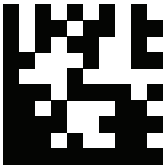

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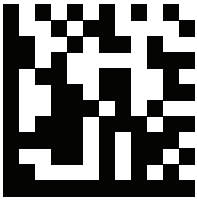

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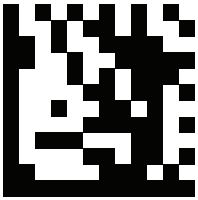

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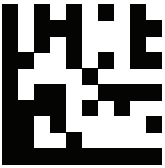

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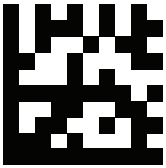

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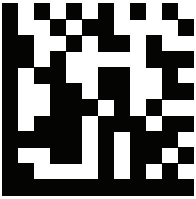

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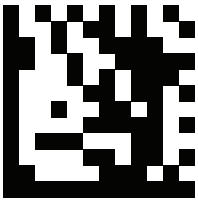

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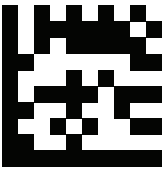

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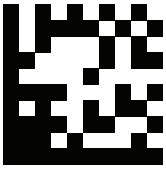

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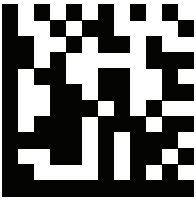

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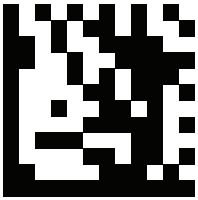

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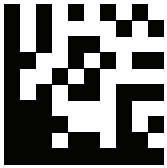

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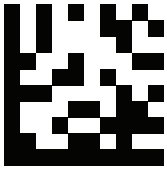

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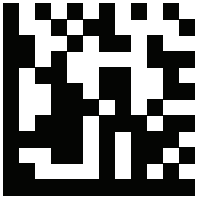

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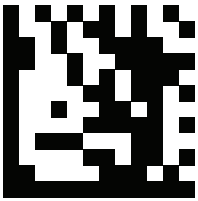

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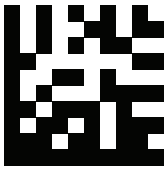

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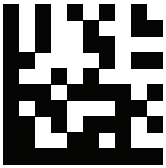

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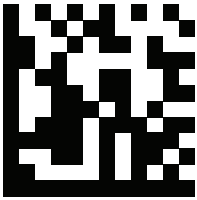

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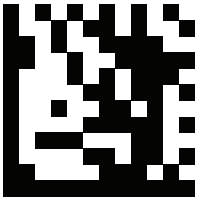

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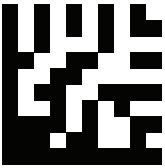

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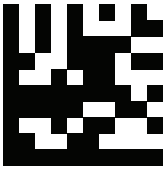

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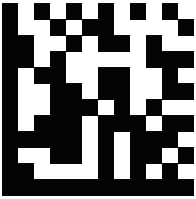

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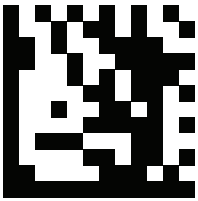

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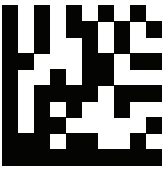

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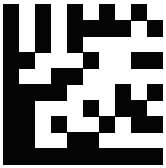

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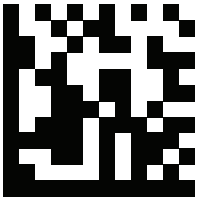

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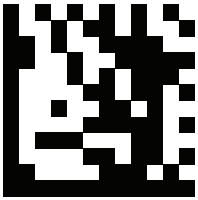

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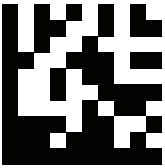

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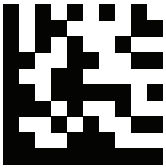

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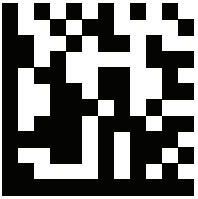

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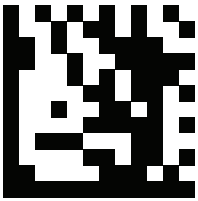
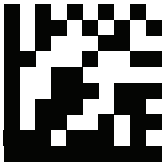
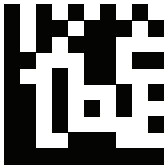


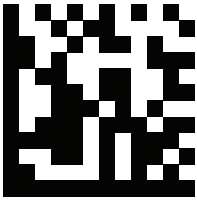
Set



QR Code Enable

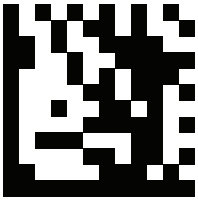


QR Code Disable

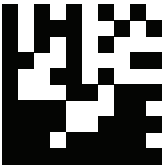


End

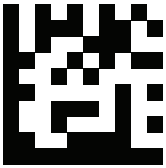
Micro QR Suffix



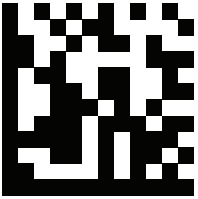
Set



Micro QR Enable

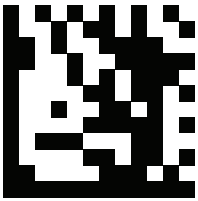


Micro QR Disable

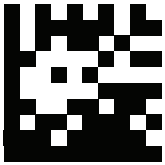


End

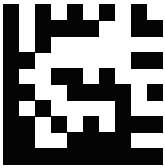
Aztec Suffix



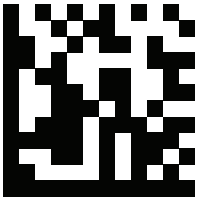
Set



Aztec Enable

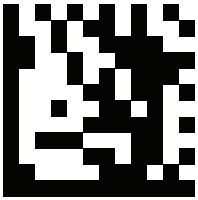


Aztec Disable

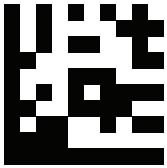


End

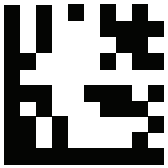
MaxiCode Suffix



Set



MaxiCode Enable



MaxiCode Disable

End

Data Editing (Truncate/Return)

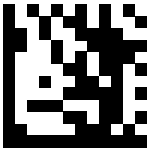
Truncate/Return Commands

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.

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 Symbologies Truncate/Return



Set

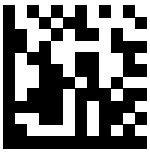
Return leftmost

Truncate leftmost

Return rightmost

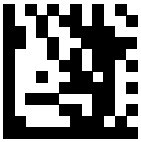
Truncate rightmost

Disable All (Default)



End

Set EAN 13 Truncate/Return



Set

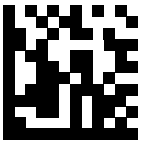
Return leftmost

Truncate leftmost

Return rightmost

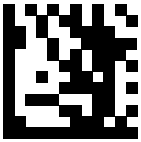
Truncate rightmost

Disable All (Default)



End

Set Code 39 Truncate/Return



Set

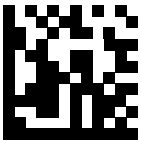
Return leftmost

Truncate leftmost

Return rightmost

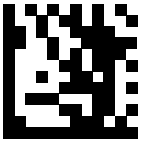
Truncate rightmost

Disable All (Default)



End

Set Code 32 Truncate/Return



Set

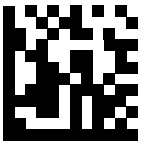
Return leftmost

Truncate leftmost

Return rightmost

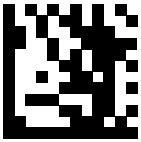
Truncate rightmost

Disable All (Default)



End

Set Interleaved 2 of 5 Truncate/Return



Set

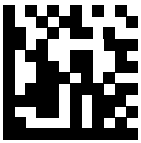
Return leftmost

Truncate leftmost

Return rightmost

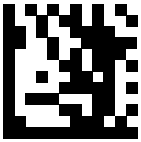
Truncate rightmost

Disable All (Default)



End

Set PDF 417 Truncate/Return



Set

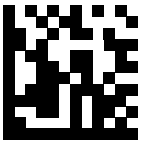
Return leftmost

Truncate leftmost

Return rightmost

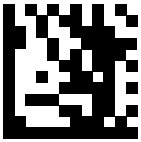
Truncate rightmost

Disable All (Default)



End

Set QR Truncate/Return



Set

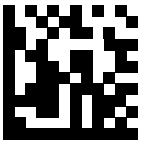
Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

Disable All (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:
  a. scan Set to set up
  b. scan Interleaved 2 of 5 One Discrete Length
  c. scan 8 in ASCII Code Table
  d. scan End to confirm the setup

  Example 2:
  To decode Interleaved 2 of 5 symbols with 12 characters:
  a. scan Set to set up
  b. scan Interleaved 2 of 5 One Discrete Length
  c. scan scan 1 followed by 2 in ASCII Code Table
  d. 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
  a. scan Set to set up
  b. scan Code 128 Two Discrete Length
  c. scan 0, 8, 1, and then 4 in ASCII Code Table
  d. 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.

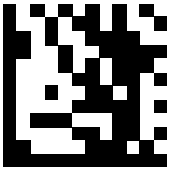
  Example:
  To decode Codabar symbols containing between 7 and 8 characters,
  a. scan Set to set up
  b. scan Codabar Length Within Range
  c. scan 0, 7, 0, and then 8 in ASCII Code Table
  d. scan End to confirm the setup

- 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



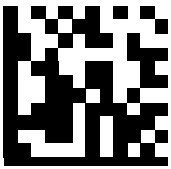
Set

One Discrete Length

Two Discrete Lengths

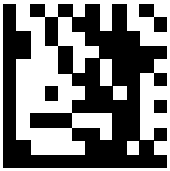
Length Within Range

Any Length (Default)



End

Set Lengths for Code 39



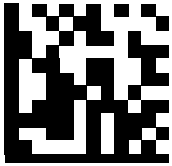
Set

One Discrete Length

Two Discrete Lengths

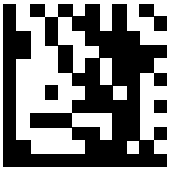
Length Within Range

Any Length (Default)



End

Set Lengths for Code 93



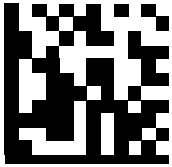
Set

One Discrete Length

Two Discrete Lengths

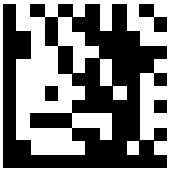
Length Within Range

Any Length (Default)



End

Set Lengths for Codabar



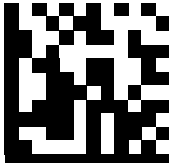
Set

One Discrete Length

Two Discrete Lengths

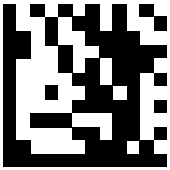
Length Within Range

Any Length (Default)



End

Set Lengths for Interleaved 2 of 5



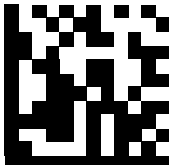
Set

One Discrete Length

Two Discrete Lengths

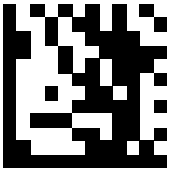
Length Within Range

Any Length (Default)



End

Set Lengths for Code 11



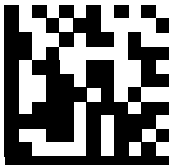
Set

One Discrete Length

Two Discrete Lengths

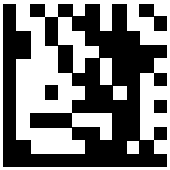
Length Within Range

Any Length (Default)



End

Set Lengths for MSI



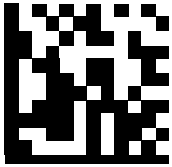
Set

One Discrete Length

Two Discrete Lengths

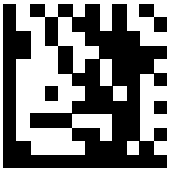
Length Within Range

Any Length (Default)



End

Set Lengths for Matrix 2 of 5



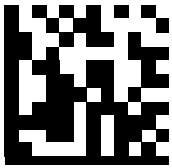
Set

One Discrete Length

Two Discrete Lengths

Length Within Range

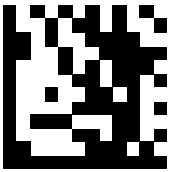
Any Length (Default)



End

Code Identifiers

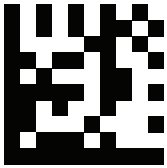
Scan the following barcodes to set symbology Identifiers.



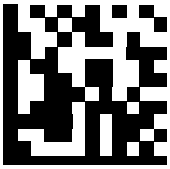
Set

Disable Code ID (Default)

Enable factory standard ID



Enable AIM ID



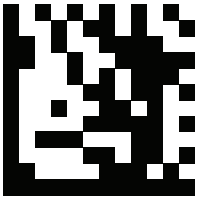
End

Code Identifiers Table

Symbology	Factory Standard	AIM
UPC-A	A	]E
UPC-E	E	]E
EAN 8	FF	]E
EAN 13	F	]E
Code 128	K	]C
Code 39	M	]A
Code 93	L	]G
Code 32	M	]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	RS	]e
RSS Expanded	RX	]e
RSS 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

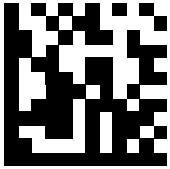
Scan a barcode below to turn Caps on or off.



Set

Caps Lock Off (Default)

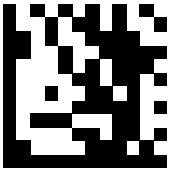
Caps Lock On



End

Function Key Mapping

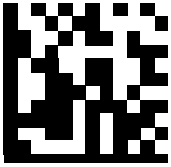
Scan the following barcodes to enable or disable Function Key Mapping.



Set

Disable Function Key Mapping (Default)

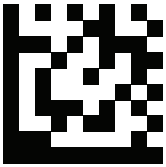
Enable Function Key Mapping



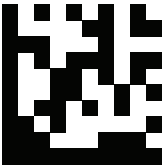
End

ASCII Code

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



Space



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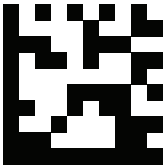

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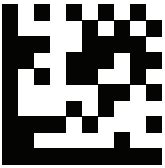

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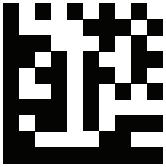

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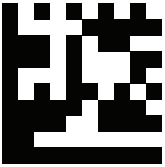

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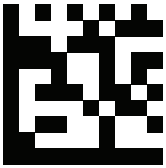

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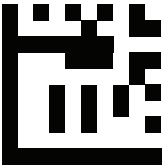

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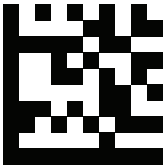

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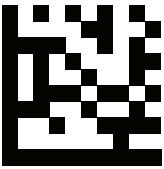

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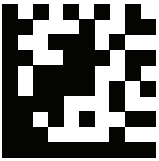

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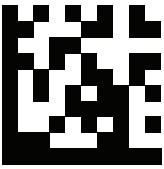

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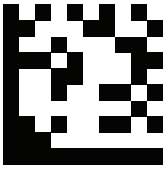

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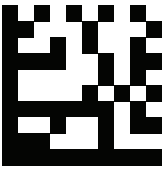

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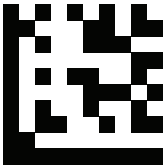

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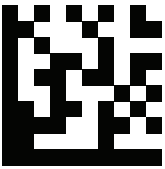

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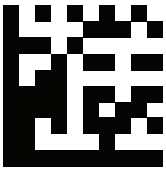

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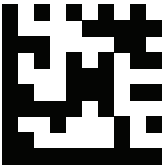

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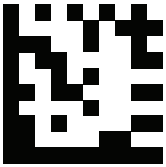

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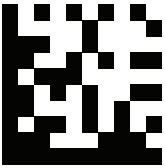

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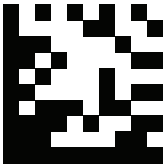

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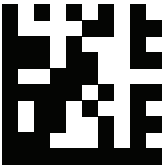

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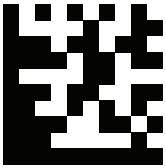

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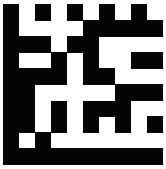

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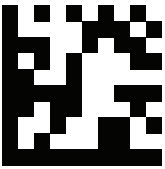

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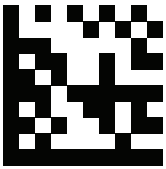

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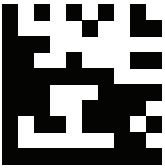

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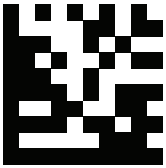

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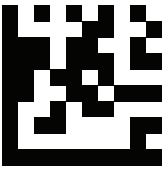

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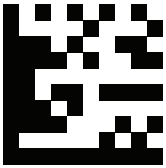

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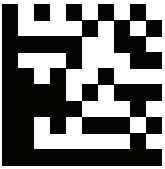

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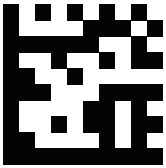

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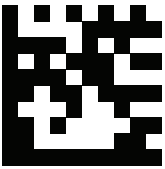

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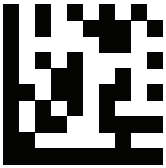

A
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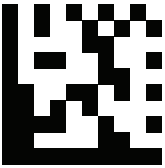
Mapping: Ctrl+a)



B
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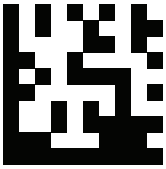

C
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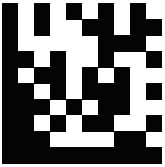

D
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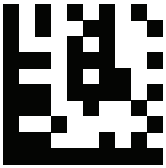

E
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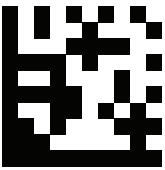

F
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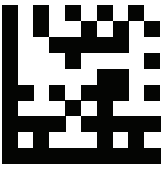

G
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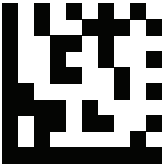

H
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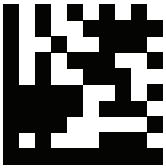

I
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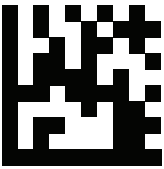

J
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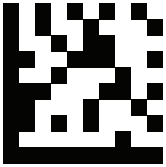

K
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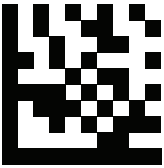

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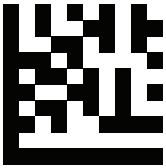

M
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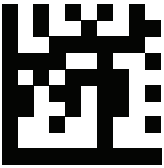

N
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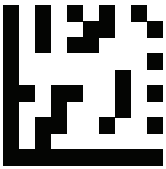

O
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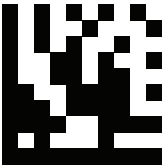

P
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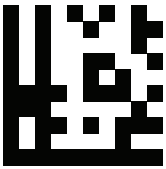

Q
(Function Key
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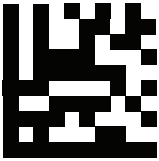

R
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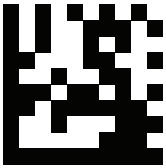

S
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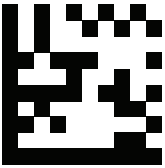

T
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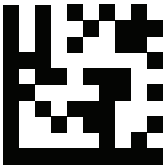

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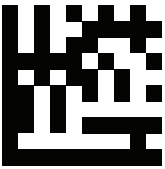

V
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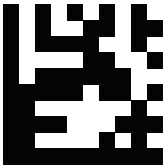
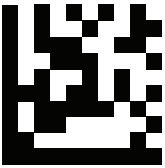


W
(Function Key
Mapping: Ctrl+w)



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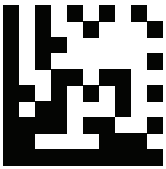
(Function Key
Mapping: Ctrl+x)



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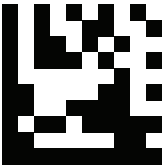

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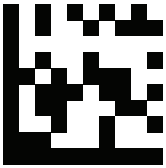

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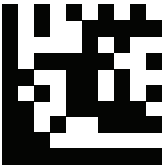

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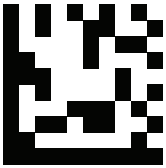

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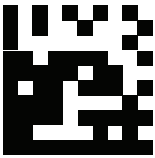

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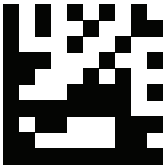

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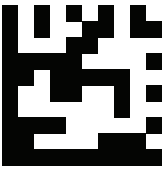

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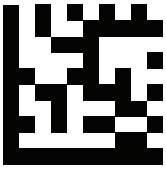

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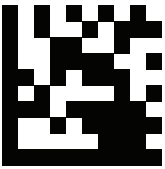

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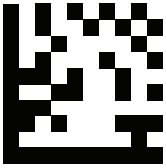

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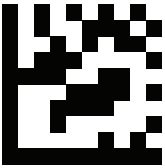

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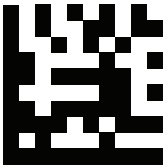

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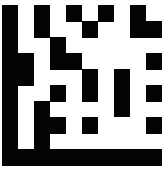

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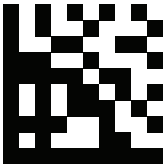

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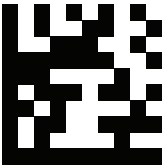

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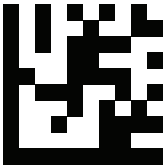

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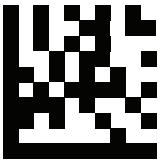

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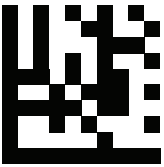

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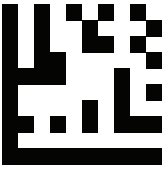

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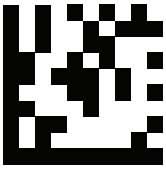

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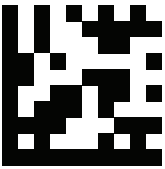

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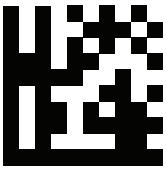

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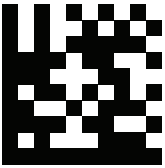

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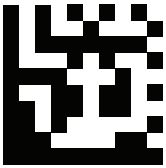

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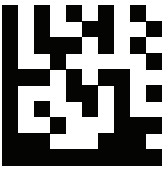

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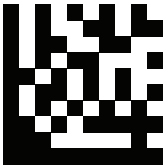

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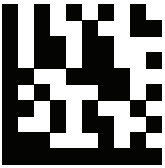

z

Insert

Delete

Home

End

Up arrow

Down arrow

Left arrow

Right arrow

Tab

Backspace

Shift

ESC

Page up

Page down

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F10

F11

F12

JavaPOS Driver V2.00 for Win32/Win64

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.

Disable (Default)

Enable

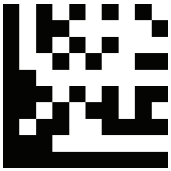
Use barcodes to configure the Handheld scanner

JavaPOS configuration barcodes:

Start of Configuration

RS-232

JPOS Enable



End of Configuration

Running the JavaPOS Test utility

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

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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="115200"/>
            <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 =115200

How to use USB scanner with JavaPOS Driver

Configuring the Scanner via barcodes:

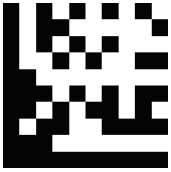
- Scan the barcodes in the sequence below to configure the scanner to usb-serial mode.

JavaPOS configuration bar codes:

Start of Configuration

USB Virtual COM Port

JPOS Enable



End of Configuration

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.

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>
```