

Programming Guide

Advanced 2D Image Scanner

This Programming Guide is intended for:

- 2D Image On-Counter Scanner: Z-8082

Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0	2018/08/06	Initial release
1.1	2018/10/18	Standby time, Customization Gain level, Illumination LED Behavior, Motion Detect Sensibility, and Mobile Phone Scan support added.
1.2	2019/01/31	Same Code Delay Time updated, deleted Good Read Beep Frequency.
1.3	2019/5/16	AUX instruction added
1.4	2019/7/2	Data redundant check functions added
1.5	2019/10/16	Code 128 data redundant check added

Important Notice

No warranty of any kind is made in regard to this material, including, but not limited to, implied warranties of merchantability or fitness for any particular purpose. We are not liable for any errors contained herein nor for incidental or consequential damages in connection with furnishing, performance or use of this material. We shall be under no liability in respect of any defect arising from fair wear and tear, willful damage, negligence, abnormal working conditions, failure to follow the instructions and warnings, or misuse or alteration or repair of the products without written approval. No part of this document may be reproduced, transmitted, stored in a retrieval system, transcribed, or translated into any human or computer or other language in any form or by any means electronic, mechanical, magnetic, optical, chemical, biological, manual or otherwise, except for brief passages which may be quoted for purposes of scholastic or literary review, without express written consent and authorization. We reserve the right to make changes in product design without reservation and without notification. The material in this guide is for information only and is subject to change without notice. All trademarks mentioned herein, registered or otherwise, are the properties of their various, ill, assorted owners.

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.

Copyright © 2019 ZEBEX INDUSTRIES INC. All rights reserved.

Table of Contents

Important Notice.....	2
General Handling Precautions.....	2
Guidance for Printing	2
Using the Scanner	7
Beeper Indication	7
Settings and Programming.....	8
Program Set Up Flow.....	8
User Preferences	9
Show Version.....	9
System Settings	9
Customer's Factory Default	10
Same Code Delay Time	11
Interface Switch.....	13
Aux Setting	14
Header (USB Keyboard interface).....	15
Good Read Beep On/ Off.....	16
Good Read Beep Length.....	17
Standby Time	18
Customization GAIN Level	20
Motion Detect Sensibility.....	22
Illumination LED Behavior	25
Mobile Phone Scan Support.....	27
Terminal Character	28
RS232 Baud Rate	29
RS232 Parity Bit	31
RS232 Stop Bit.....	32
RS232 Data Bit.....	33
USB Speed	34
Country Code	35
Readable Symbolologies	40
All Symbolologies	40
UPC-A	41
UPC-E.....	42
EAN-8	43
EAN 13.....	44
Code 128	45
Code 39	46
Code 93	47
Code 32	48
Code 11	49
Codabar.....	50

Plessey.....	51
MSI/Plessey.....	52
Interleaved 2 of 5	53
IATA 2 of 5	54
Matrix 2 of 5.....	55
Straight 2 of 5	56
RSS 14.....	57
RSS Expanded	58
RSS Limited.....	59
Component CC-A.....	60
Component CC-B.....	61
Component CC-C.....	62
PDF417	63
Data Matrix	65
QR Code	66
Micro QR Code	67
Aztec.....	68
MaxiCode	69
Symbology Features	70
UPC / EAN.....	70
UPC-A	71
UPC-E.....	74
EAN 8.....	76
EAN 13.....	78
Code 128	81
Code 39	82
Code 93	85
Codabar.....	86
Interleaved 2 of 5	89
MSI / Plessey	92
Code 11	94
FNC1 GS Substitution Values.....	96
PDF 417	97
Data Matrix	98
QR / Micro QR	100
Aztec.....	102
Data Editing (Prefix)	103
Prefix Set Up Flow	103
All Prefix	104
UPC / EAN Prefix.....	105
Code 128 Prefix	107
Code 39 Prefix	108

Code 93 Prefix	109
Code 32 Prefix	110
Code 11 Prefix	111
Codabar Prefix.....	112
Plessey Prefix.....	113
MSI Prefix	114
Interleaved 2 of 5Prefix	115
IATA 2 of 5 Prefix	116
Matrix 2 of 5 Prefix.....	117
Straight 2 of 5 Prefix.....	118
RSS 14 Prefix.....	119
RSS Expanded Prefix.....	120
RSS Limited Prefix.....	121
Component CC-A Prefix.....	122
Component CC-B Prefix.....	123
Component CC-C Prefix.....	124
PDF 417 Prefix	125
Micro PDF 417 Prefix.....	126
Data Matrix Prefix	127
QR Prefix	128
Micro QR Prefix	129
Aztec Prefix.....	130
MaxiCode Prefix	131
Data Editing (Suffix).....	132
Suffix Set Up Flow.....	132
All Suffix	133
UPC-A Suffix	134
UPC-E Suffix.....	135
EAN 8 Suffix.....	136
EAN 13 Suffix.....	137
Code 128 Suffix	138
Code 39 Suffix	139
Code 93 Suffix	140
Code 32 Suffix	141
Code 11 Suffix	142
Codabar Suffix.....	143
Plessey Suffix.....	144
MSI Suffix	145
Interleaved 2 of 5 Suffix	146
IATA 2 of 5 Suffix.....	147
Matrix 2 of 5 Suffix	148
Straight 2 of 5 Suffix	149
RSS 14 Suffix.....	150

RSS Expanded Suffix	151
RSS Limited Suffix	152
Component CC-A Suffix	153
Component CC-B Suffix	154
Component CC-C Suffix	155
PDF-417 Suffix	156
Micro PDF-417 Suffix.....	157
Data Matrix Suffix.....	158
QR Code Suffix.....	159
Micro QR Suffix	160
Aztec Suffix.....	161
MaxiCode Suffix	162
Code Settings	163
Set Lengths for Codes.....	163
Set Lengths for Code 128	165
Set Lengths for Code 39	166
Set Lengths for Code 93	167
Set Lengths for Codabar.....	168
Set Lengths for Interleaved 2 of 5	169
Set Lengths for Code 11	170
Set Lengths for MSI	171
Set Lengths for Matrix 2 of 5.....	172
Code Identifiers.....	173
Code Identifiers Table	174
Keyboard Caps Lock State	175
Function Key Mapping	177
ASCII Code	178
USB Virtual COM Driver Installing.....	199
JavaPOS Setting	200
JavaPOS	200
JavaPOS Version	201
Install the Java2 Runtime Environment.....	201
Install the Service Object and JavaPOS files	201
How to use RS232 scanner with JavaPOS Driver	201
Use barcodes to configure the scanner.....	202
Running the JavaPOS Test utility	203
How to use JavaPOS driver at your application.....	203
How to use USB scanner with JavaPOS Driver	204
Install the Java RXTXcomm API	205
Running the JavaPOS Test utility	205
How to Use JavaPOS Driver at your application.....	206

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 2D image barcode scanner. Decoding options and interface protocols can be tailored to a specific application.

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

Program Set Up Flow

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

User Preferences

Show Version

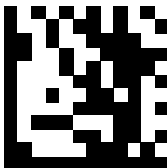
Scan this barcode to display firmware version.



Read device information

System Settings

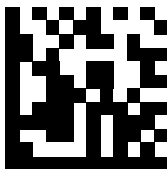
Scan this barcode to return all parameters to the default values.



Set



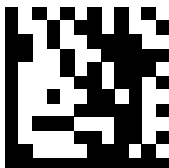
Factory default settings



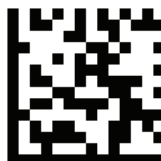
End

Customer's Factory Default

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



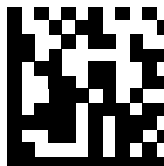
Set



Save customer's factory default



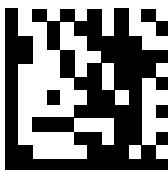
Delete customer's factory default



End

Same Code Delay Time

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



Set



300 msec



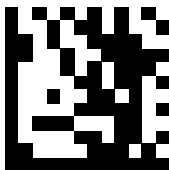
500 msec (Default)



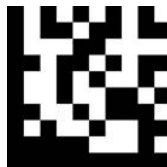
1 sec



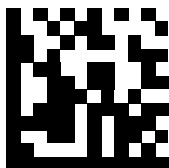
1.5 sec



Set



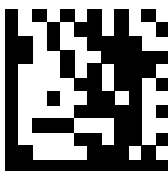
2 sec



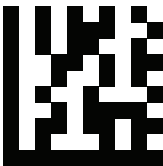
End

Interface Switch

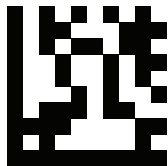
Your 2D Imager supports interfaces such as USB HID, RS232 serial, and USB virtual COM. To switch the interface, simply select the appropriate cable and configure the proper interface by following interface selection.



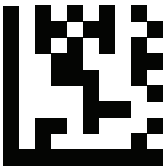
Set



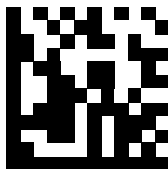
RS-232



USB Keyboard



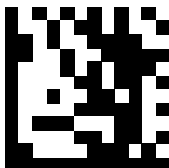
USB Virtual COM Port
*Driver required



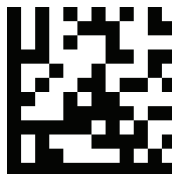
End

Aux Setting

Scan a barcode below to enable/disable auxiliary scanner.



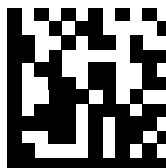
Set



Enable



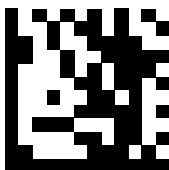
Disable (Default)



End

Header (USB Keyboard interface)

Scan a barcode below to set header for USB keyboard.



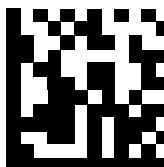
Set



None (Default)



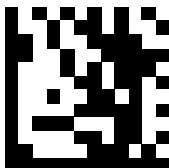
Right Ctrl



End

Good Read Beep On/ Off

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



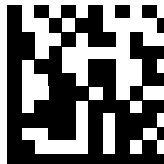
Set



On (Default)



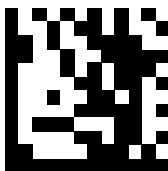
Off



End

Good Read Beep Length

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



Set



50 msec (Default)



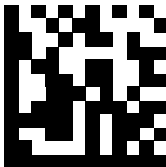
100 msec



150 msec



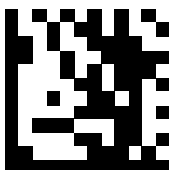
200 msec



End

Standby Time

Scan a barcode below to select the desired standby time.



Set



15 sec (Default)



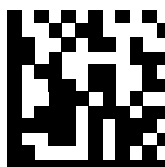
30 sec



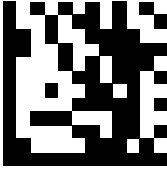
60 sec



90 sec



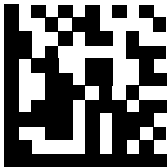
End



Set



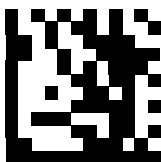
120 sec



End

Customization GAIN Level

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



Set



Level 1 (Low)



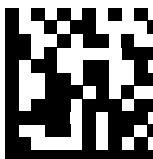
Level 2



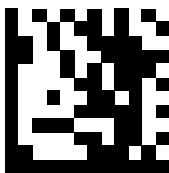
Level 3 (Default)



Level 4



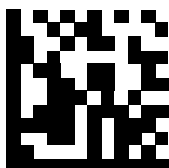
End



Set



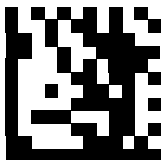
Level 5 (High)



End

Motion Detect Sensibility

Set the motion detection sensibility level. The higher the level the more sensitive the condition becomes.



Set



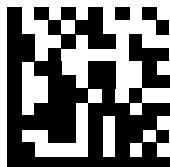
Level 1 (High)



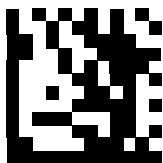
Level 2



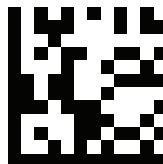
Level 3



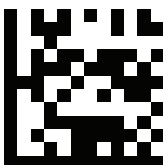
End



Set



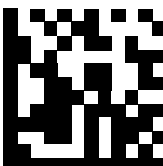
Level 4



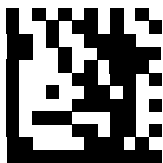
Level 5 (Default)



Level 6



End



Set



Level 7



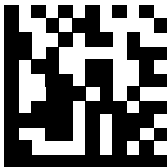
Level 8



Level 9



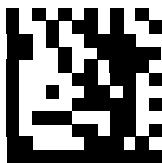
Level 10



End

Illumination LED Behavior

Set illumination behavior when device is in standby.



Set



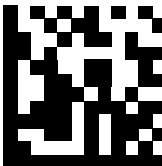
Illumination LED Standby On



Illumination LED Standby Off
(Default)



LED Off



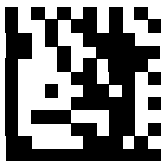
End

illumination LED behavior description	illumination LED Standby On	illumination LED Standby Off	LED Off
illumination LED behavior for motion detection	On	Off	Motion Detect is NOT Supported
Motion detect sensibility setting support	Yes	Yes	Motion Detect is NOT Supported
Barcode scan with illumination LED ON	Yes	Yes	No
Gain level setting for image quality	Yes, but Default is recommended	Yes, but Default is recommended	Yes
Low environment light application	Yes	Yes	Not recommended

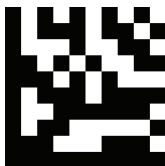
- illumination LED Standby On: LED on when in standby mode.
- illumination LED Standby Off (Default): LED off when in standby mode. Sufficient lighting is needed to wake the device. Please use Motion Detect Sensibility to make adjustments according to lighting conditions.
- LED Off: In this mode, the illumination LED is Off when the device is in standby and a short blink is given after a good read as indicator. Motion detection is NOT supported in this mode so the use of this mode in low light environment is NOT recommended.

Mobile Phone Scan Support

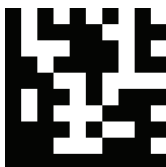
Enable or disable mobile phone scan support. Illumination can be turned off by disabling Mobile Phone Scan Support. You may still turn on the support by pressing the switches on the device after disabling it.



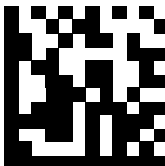
Set



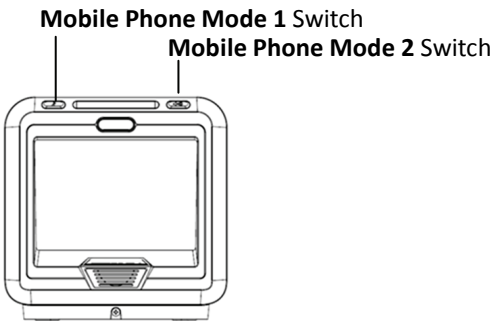
Enable (Default)



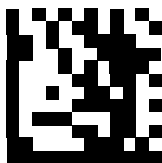
Disable



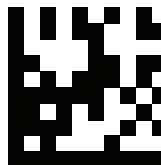
End



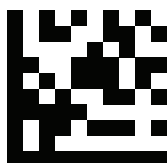
Terminal Character



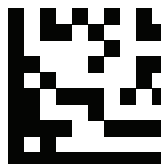
Set



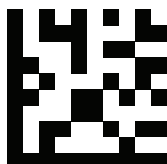
None



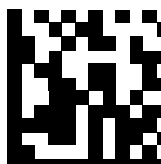
CR/LF (Default)



CR



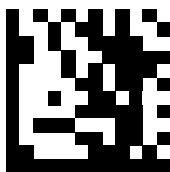
TAB



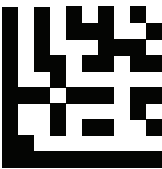
End

RS232 Baud Rate

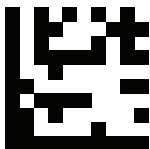
Baud rate is the number of bits of data transmitted per second. Set the imager's baud rate to match the baud rate setting of the host device. Otherwise, data may not reach the host device or may reach it in distorted form.



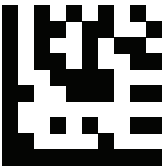
Set



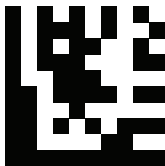
9600 (Default)



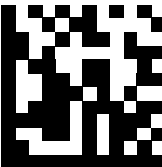
19200



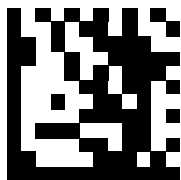
38400



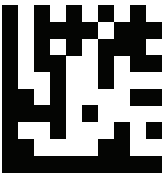
57600



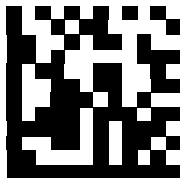
End



Set



115200



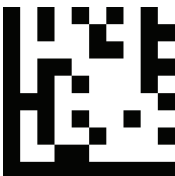
End

RS232 Parity Bit

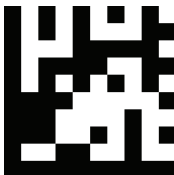
Scan the codes below to set the appropriate parity bit.



Set



None (Default)



Even parity



Odd parity



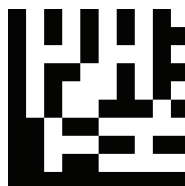
End

RS232 Stop Bit

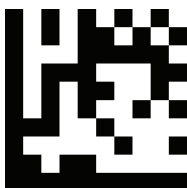
Scan the codes below to set the appropriate stop bit.



Set



1 Stop Bit (Default)



2 Stop Bit



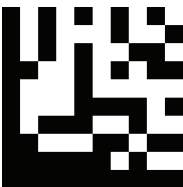
End

RS232 Data Bit

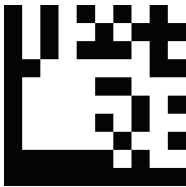
Scan the codes below to set the appropriate data bit.



Set



CS7



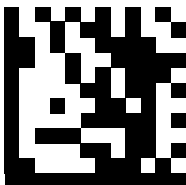
CS8 (Default)



End

USB Speed

Scan a barcode below to set USB speed.



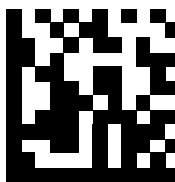
Set



USB 2.0



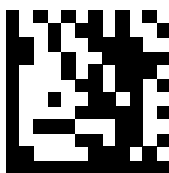
USB 1.1 (Default)



End

Country Code

Scann the following settings to change the country code.



Set



US (Default)



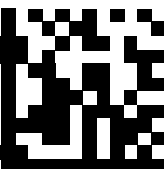
Belgium



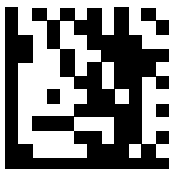
Britain



Denmark



End



Set



France



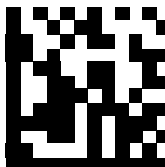
Germany



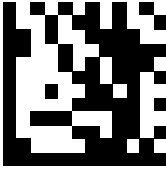
Italy



Norway



End



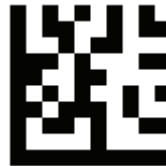
Set



Portugal



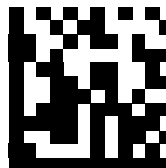
Spain



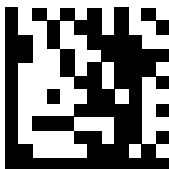
Sweden



Switzerland



End



Set



Japan



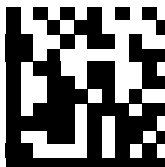
Hungary



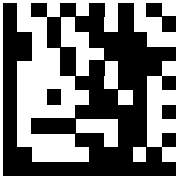
Czech Republic



Slovakia



End



Set



Romania



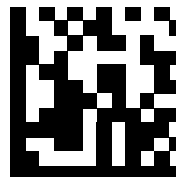
Croatia



Poland



Finland

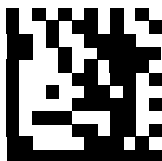


End

Readable Symbolologies

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

All Symbolologies



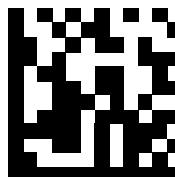
Set



Enable All

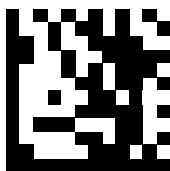


Default



End

UPC-A



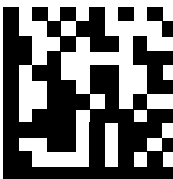
Set



Enable UPC-A (Default)

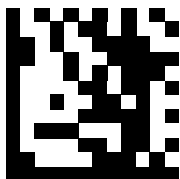


Disable UPC-A



End

UPC-E



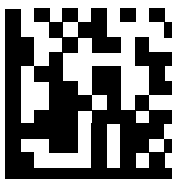
Set



Enable UPC-E

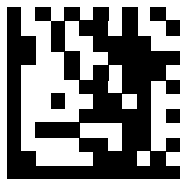


Disable UPC-E (Default)



End

EAN-8



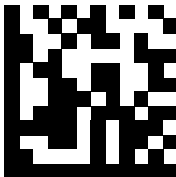
Set



Enable EAN 8 (Default)

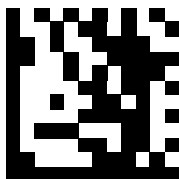


Disable EAN 8



End

EAN 13



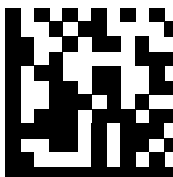
Set



Enable EAN 13 (Default)

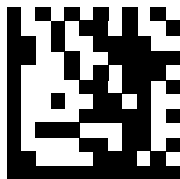


Disable EAN 13



End

Code 128



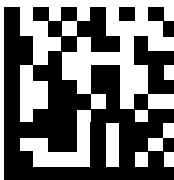
Set



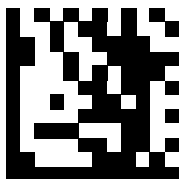
Enable Code 128 (Default)



Disable Code 128



End

Code 39

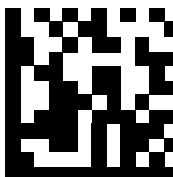
Set



Enable Code 39 (Default)

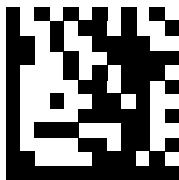


Disable Code 39



End

Code 93



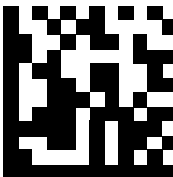
Set



Enable Code 93 (Default)

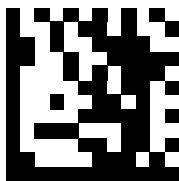


Disable Code 93



End

Code 32



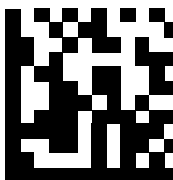
Set



Enable Code 32

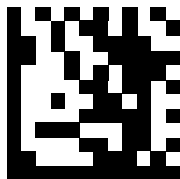


Disable Code 32 (Default)



End

Code 11



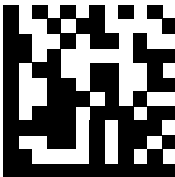
Set



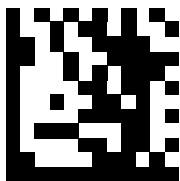
Enable Code 11



Disable Code 11 (Default)



End

Codabar

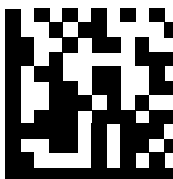
Set



Enable Codabar (Default)

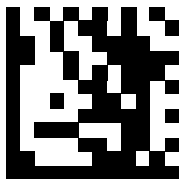


Disable Codabar



End

Plessey



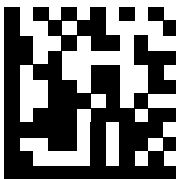
Set



Enable Plessey

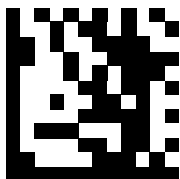


Disable Plessey (Default)



End

MSI/Plessy



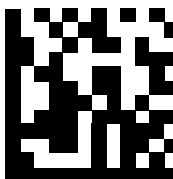
Set



Enable MSI/Plessy

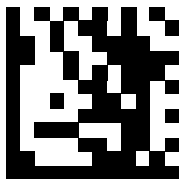


Disable MSI/Plessy (Default)



End

Interleaved 2 of 5



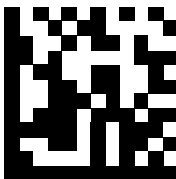
Set



Enable Interleaved 2 of 5 (Default)

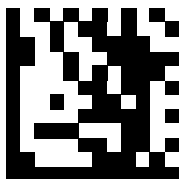


Disable Interleaved 2 of 5



End

IATA 2 of 5



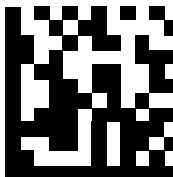
Set



Enable IATA 2 of 5

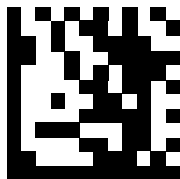


Disable IATA 2 of 5 (Default)



End

Matrix 2 of 5



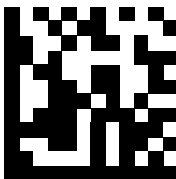
Set



Enable Matrix 2 of 5

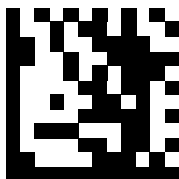


Disable Matrix 2 of 5 (Default)



End

Straight 2 of 5



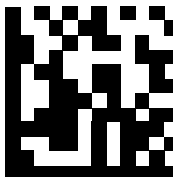
Set



Enable Straight 2 of 5

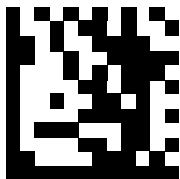


Disable Straight 2 of 5 (Default)



End

RSS 14



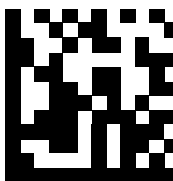
Set



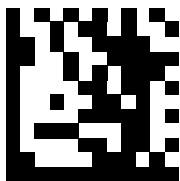
Enable RSS 14 (Default)



Disable RSS 14



End

RSS Expanded

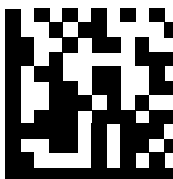
Set



Enable RSS Expanded (Default)

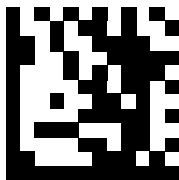


Disable RSS Expanded



End

RSS Limited



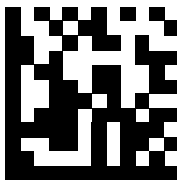
Set



Enable RSS Limited (Default)

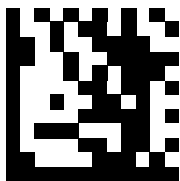


Disable RSS Limited



End

Component CC-A



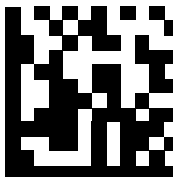
Set



Enable Component CC-A

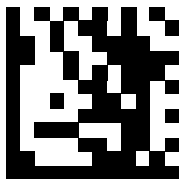


Disable Component CC-A (Default)



End

Component CC-B



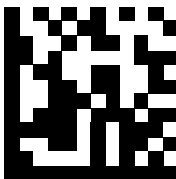
Set



Enable Component CC-B

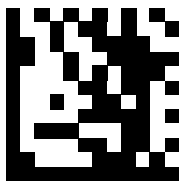


Disable Component CC-B (Default)



End

Component CC-C



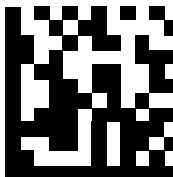
Set



Enable Component CC-C

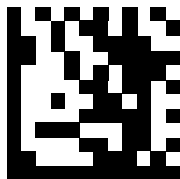


Disable Component CC-C (Default)



End

PDF417



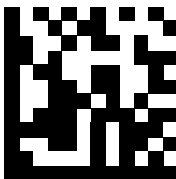
Set



Enable PDF417 (Default)

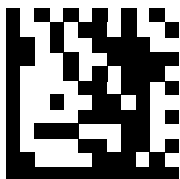


Disable PDF417



End

Micro PDF417



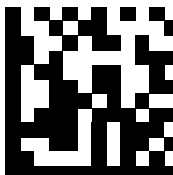
Set



Enable Micro PDF417 (Default)

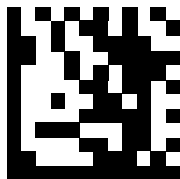


Disable Micro PDF417



End

Data Matrix



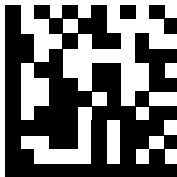
Set



Enable Data Matrix (Default)

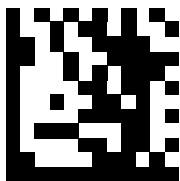


Disable Data Matrix



End

QR Code



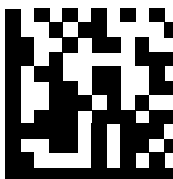
Set



Enable QR Code (Default)

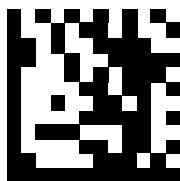


Disable QR Code

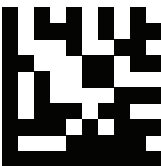


End

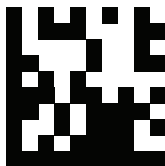
Micro QR Code



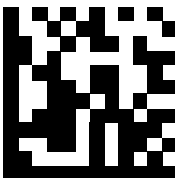
Set



Enable Micro QR Code (Default)

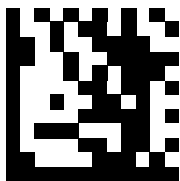


Disable Micro QR Code



End

Aztec



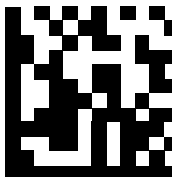
Set



Enable Aztec

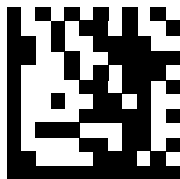


Disable Aztec (Default)



End

MaxiCode



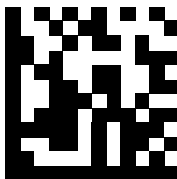
Set



Enable MaxiCode



Disable MaxiCode (Default)

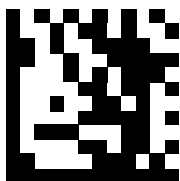


End

Symbology Features

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

UPC / EAN



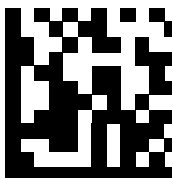
Set



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

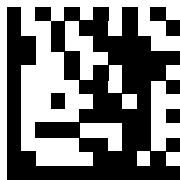


Disable decoding of 2/5-digit supplemental
code for UPC-A, UPC-E, EAN-13,
and EAN-8 (Default)

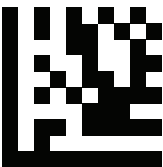


End

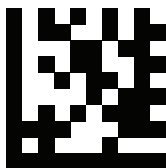
UPC-A



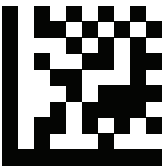
Set



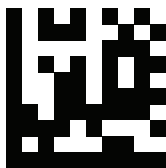
Enable UPC-A Number System digit
(Default)



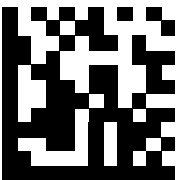
Disable UPC-A Number System digit



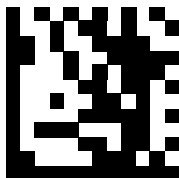
Enable UPC-A check digit (Default)



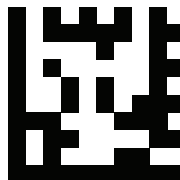
Disable UPC-A check digit



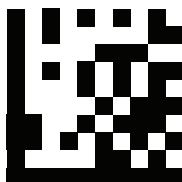
End



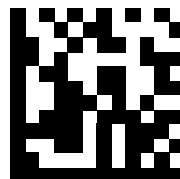
Set



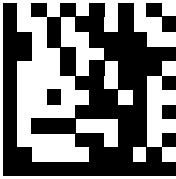
Enable conversion of UPC-A to EAN13



Disable conversion of UPC-A to EAN13
(Default)



End



Set



UPC-A data redundant check=Off (Default)



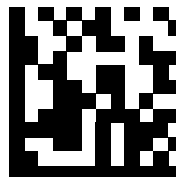
UPC-A data redundant check=1



UPC-A data redundant check=2

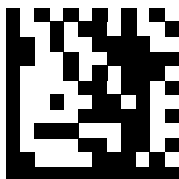


UPC-A data redundant check=3

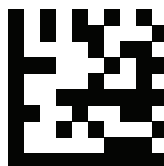


End

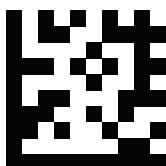
UPC-E



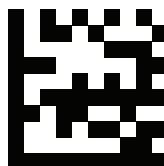
Set



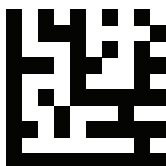
Enable UPC-E Number System digit
(Default)



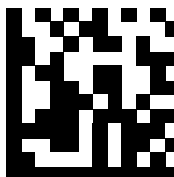
Disable UPC-E Number System digit



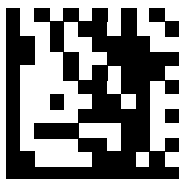
Enable UPC-E check digit (Default)



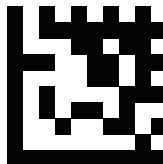
Disable UPC-E check digit



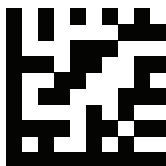
End



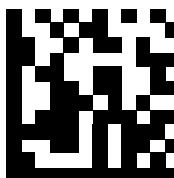
Set



Enable conversion of UPC-E to UPC-A

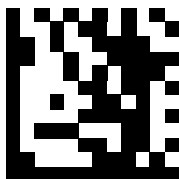


Disable conversion of UPC-E to UPC-A
(Default)

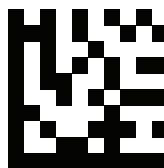


End

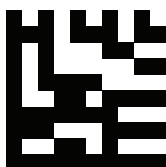
EAN 8



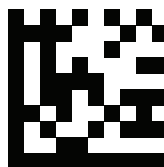
Set



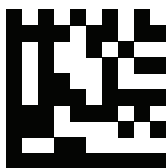
Enable EAN 8 check digit (Default)



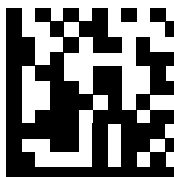
Disable EAN 8 check digit



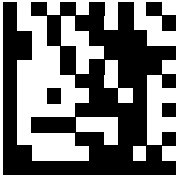
Enable conversion of EAN 8 to EAN 13



Disable conversion of EAN 8 to EAN 13
(Default)



End



Set



EAN 8 data redundant check=Off (Default)



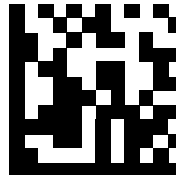
EAN 8 data redundant check=1



EAN 8 data redundant check=2

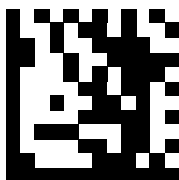


EAN 8 data redundant check=3

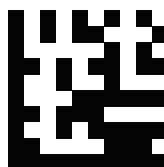


End

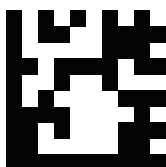
EAN 13



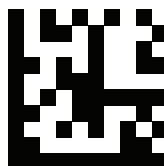
Set



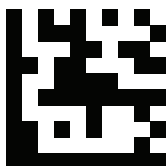
Enable EAN 13 check digit (Default)



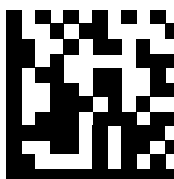
Disable EAN 13 check digit



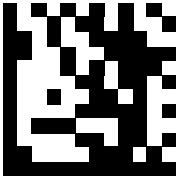
Enable conversion of EAN 13 to ISBN



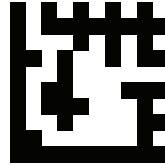
Disable conversion of EAN 13 to ISBN
(Default)



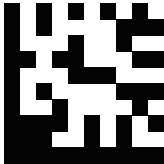
End



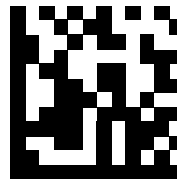
Set



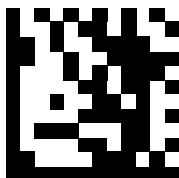
Enable conversion of EAN 13 to ISSN



Disable conversion of EAN 13 to ISSN
(Default)



End



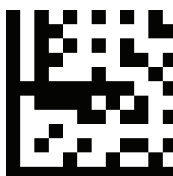
Set



EAN 13 data redundant check = off



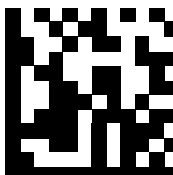
EAN 13 data redundant check = 1
(Default)



EAN 13 data redundant check = 2

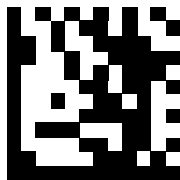


EAN 13 data redundant check = 3

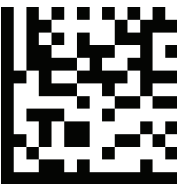


End

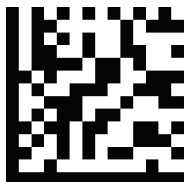
Code 128



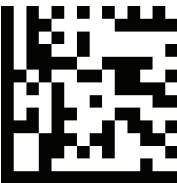
Set



Code 128 data redundant check = off
(Default)



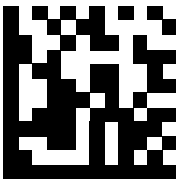
Code 128 data redundant check = 1



Code 128 data redundant check = 2

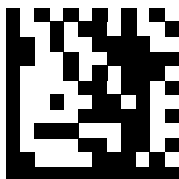


Code 128 data redundant check = 3

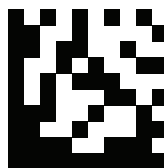


End

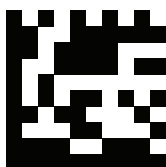
Code 39



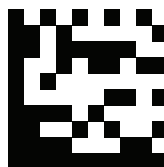
Set



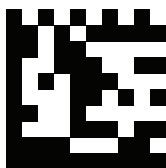
Enable Code 39 full ASCII mode



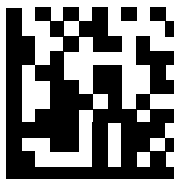
Disable Code 39 full ASCII mode (Default)



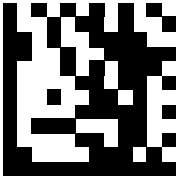
Enable Start and Stop characters



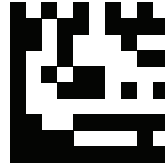
Disable Start and Stop characters (Default)



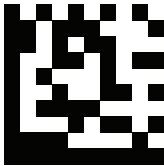
End



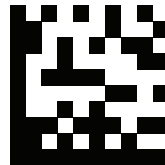
Set



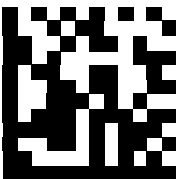
Disable Checksum (Default)



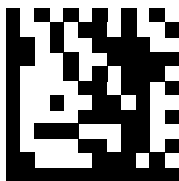
Enable checksum and send check
character



Enable checksum and strip check
character



End



Set



Code 39 data redundant check = off



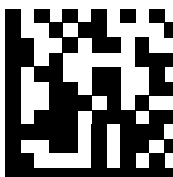
Code 39 data redundant check = 1
(Default)



Code 39 data redundant check = 2

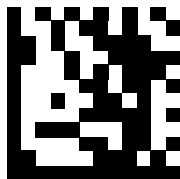


Code 39 data redundant check = 3



End

Code 93



Set



Code 93 data redundant check = off
(Default)



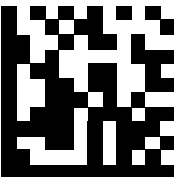
Code 93 data redundant check = 1



Code 93 data redundant check = 2

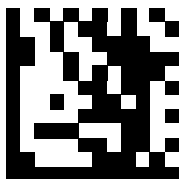


Code 93 data redundant check = 3

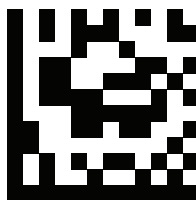


End

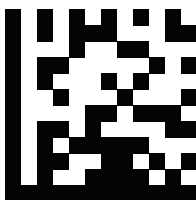
Codabar



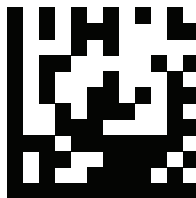
Set



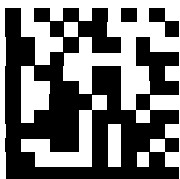
Disable Checksum (Default)



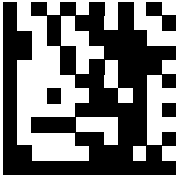
Enable checksum and send check character



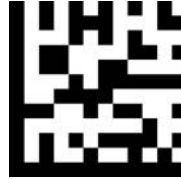
Enable checksum and strip check character



End



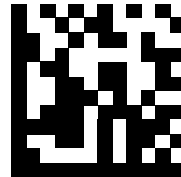
Set



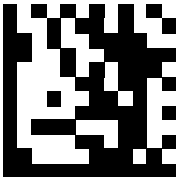
Enable stripping Start and Stop characters



Disable stripping Start and Stop characters
(Default)



End



Set



Codabar data redundant check = off



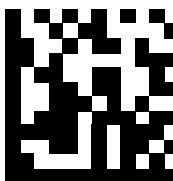
Codabar data redundant check = 1
(Default)



Codabar data redundant check = 2

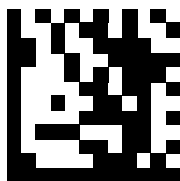


Codabar data redundant check = 3

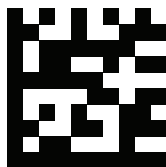


End

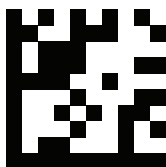
Interleaved 2 of 5



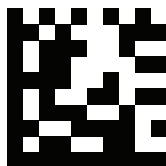
Set



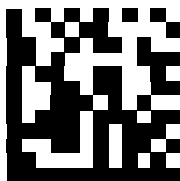
Disable Checksum (Default)



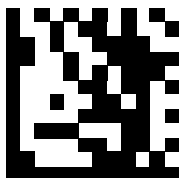
Enable checksum and send check
character



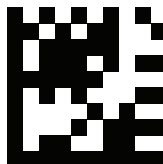
Enable checksum and strip check
character



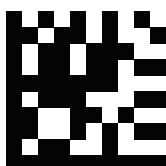
End



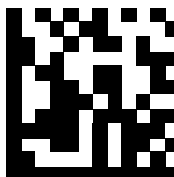
Set



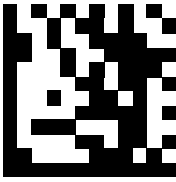
Default quiet zone checking
No length checking performed (Default)



Smaller quiet zone allowed



End



Set



Interleaved 2 of 5 data redundant check =
off (Default)



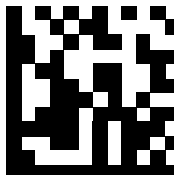
Interleaved 2 of 5 data redundant check = 1



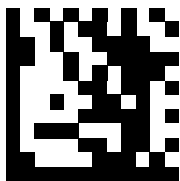
Interleaved 2 of 5 data redundant check = 2



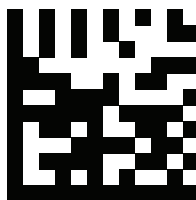
Interleaved 2 of 5 data redundant check = 3



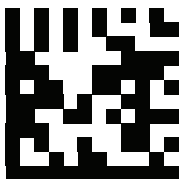
End

MSI / Plessey

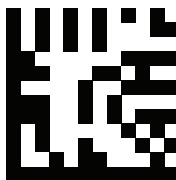
Set



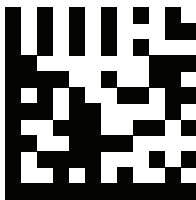
Disable MSI Plessey checksum



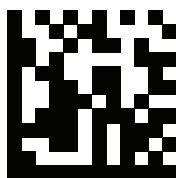
Mod 10 checksum (Default)



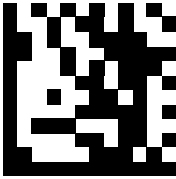
Mod 10/10 checksum



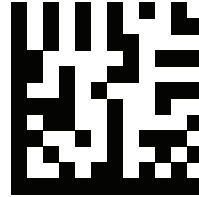
Mod 11/10 checksum



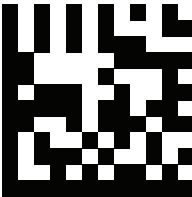
End



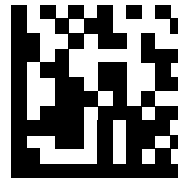
Set



Output checksum character(s) (Default)

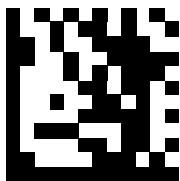


Strip checksum character(s)

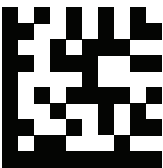


End

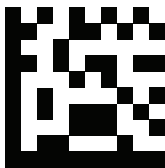
Code 11



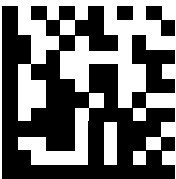
Set



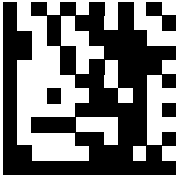
Output checksum character(s)



Strip checksum character(s) (Default)



End



Set



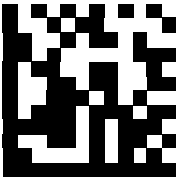
Disable checksum checking



Enable 1-digit checksum checking

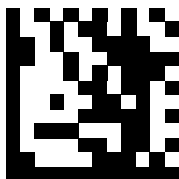


Enable 2-digit checksum checking
(Default)



End

FNC1 GS Substitution Values



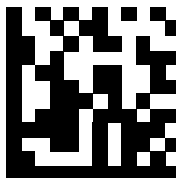
Set



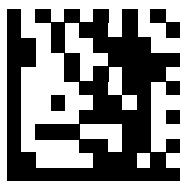
"Ctrl+]" (Default)



"Alt+29(KP)"
(nmvs)



End



Set



PDF417 data redundant check = off (Default)



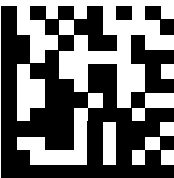
PDF417 data redundant check = 1



PDF417 data redundant check = 2

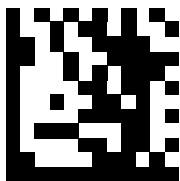


PDF417 data redundant check = 3

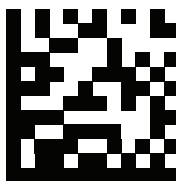


End

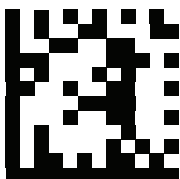
Data Matrix



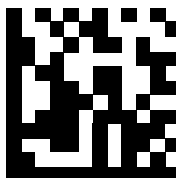
Set



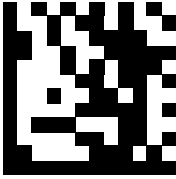
Enable mirror decoding (Default)



Disable mirror decoding



End



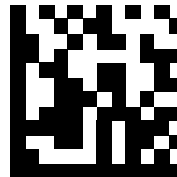
Set



Enable rectangular Data Matrix decoding

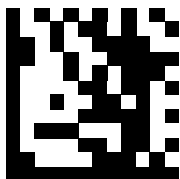


Disable rectangular Data Matrix decoding
(Default)

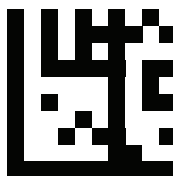


End

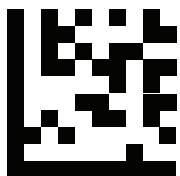
QR / Micro QR



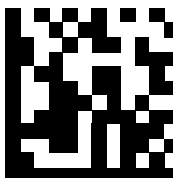
Set



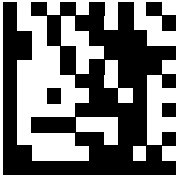
Enable mirror decoding (Default)



Disable mirror decoding



End



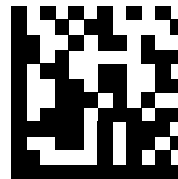
Set



UTF8 conversion for word only



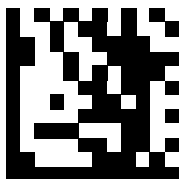
Universal UTF8 conversion (Default)



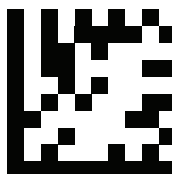
End

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

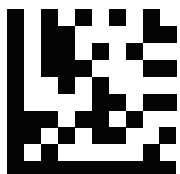
Aztec



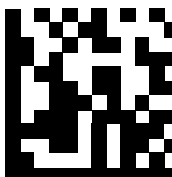
Set



Enable mirror decoding (Default)



Disable mirror decoding



End

Data Editing (Prefix)

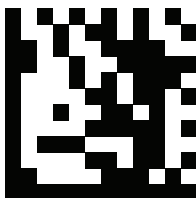
Prefix is additional characters that can be sent before the scanned data. Please scan the barcodes in the selection below to set your prefix.

Prefix Set Up Flow

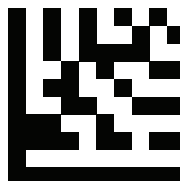
1. Scan Set.
2. Enable barcode type.
3. Scan prefix you would like to add characters within ASCII Table. Up to 4 digits can be added.
4. Scan End.

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

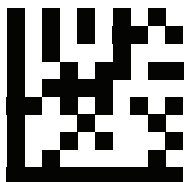
All Prefix



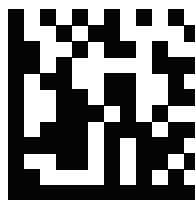
Set



Enable All

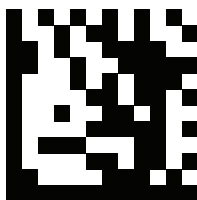


Disable All (Default)

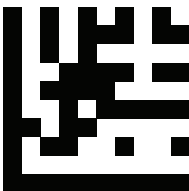


End

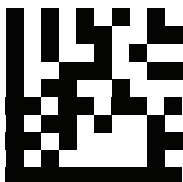
UPC / EAN Prefix



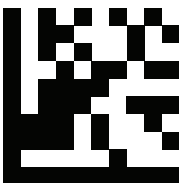
Set



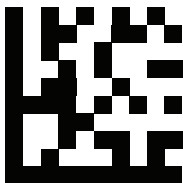
Enable UPC-A



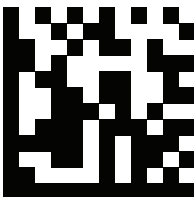
Disable UPC-A



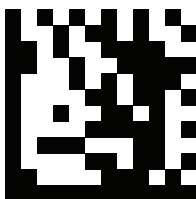
Enable UPC-E



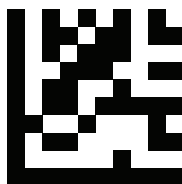
Disable UPC-E



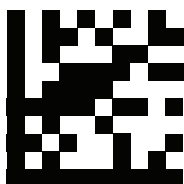
End



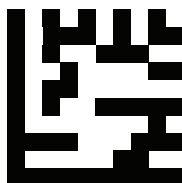
Set



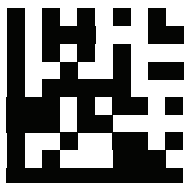
Enable EAN 8



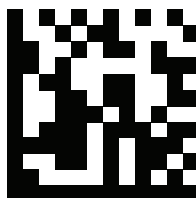
Disable EAN 8



Enable EAN 13

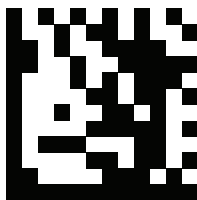


Disable EAN 13

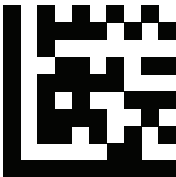


End

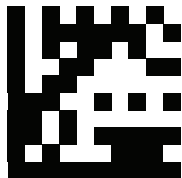
Code 128 Prefix



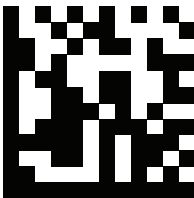
Set



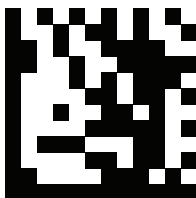
Enable Code 128



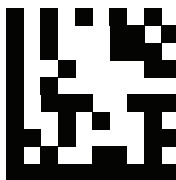
Disable Code 128



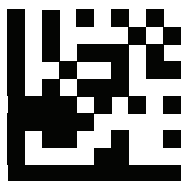
End

Code 39 Prefix

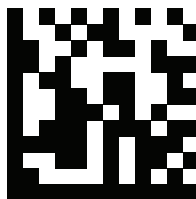
Set



Enable Code 39

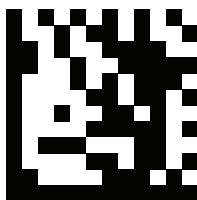


Disable Code 39

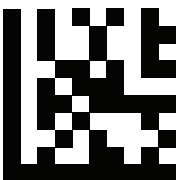


End

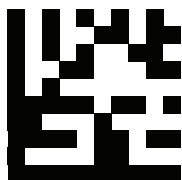
Code 93 Prefix



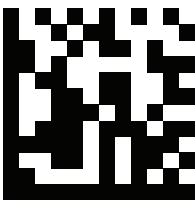
Set



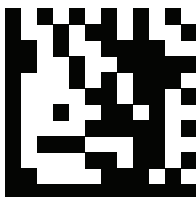
Enable Code 93



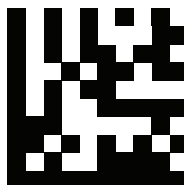
Disable Code 93



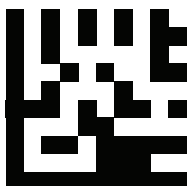
End

Code 32 Prefix

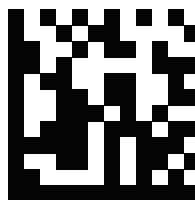
Set



Enable Code 32

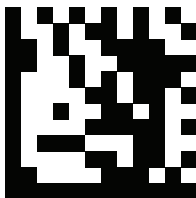


Disable Code 32

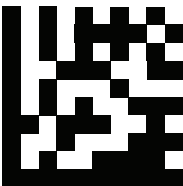


End

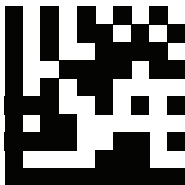
Code 11 Prefix



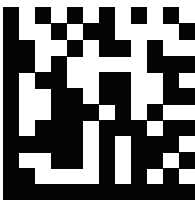
Set



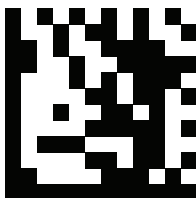
Enable Code 11



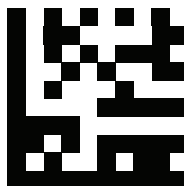
Disable Code 11



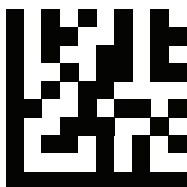
End

Codabar Prefix

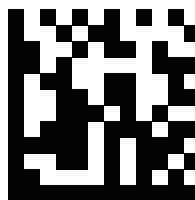
Set



Enable Codabar

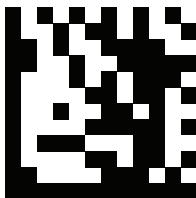


Disable Codabar

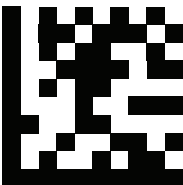


End

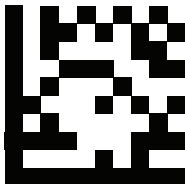
Plessey Prefix



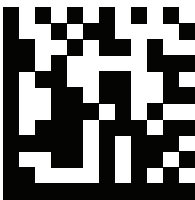
Set



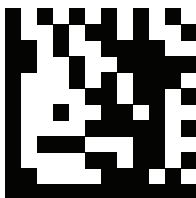
Enable Plessey



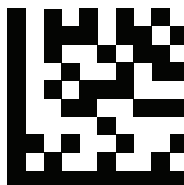
Disable Plessey



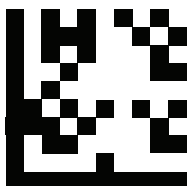
End

MSI Prefix

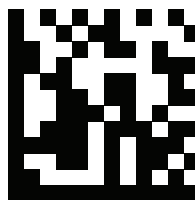
Set



Enable MSI

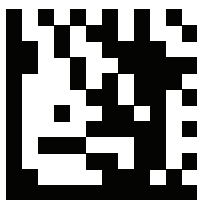


Disable MSI

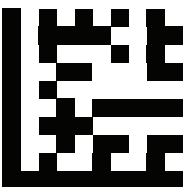


End

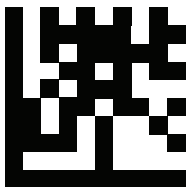
Interleaved 2 of 5Prefix



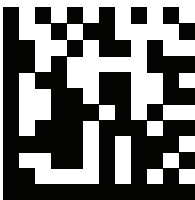
Set



Enable Interleaved 2 of 5

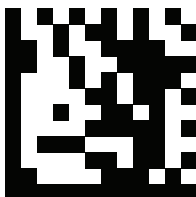


Disable Interleaved 2 of 5

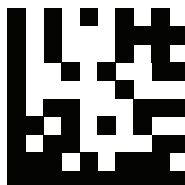


End

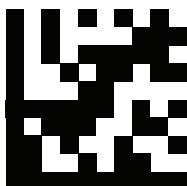
IATA 2 of 5 Prefix



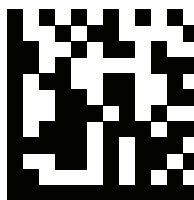
Set



Enable IATA 2 of 5

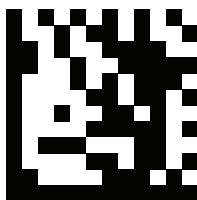


Disable IATA 2 of 5

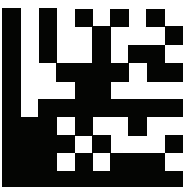


End

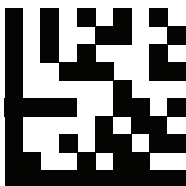
Matrix 2 of 5 Prefix



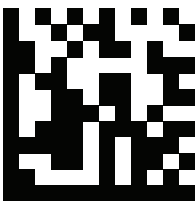
Set



Enable Matrix 2 of 5

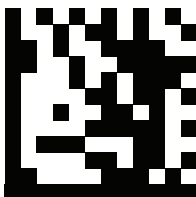


Disable Matrix 2 of 5

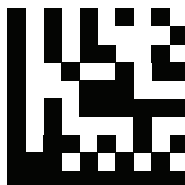


End

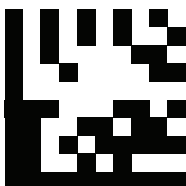
Straight 2 of 5 Prefix



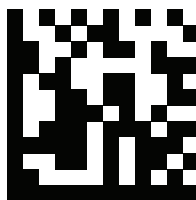
Set



Enable Straight 2 of 5

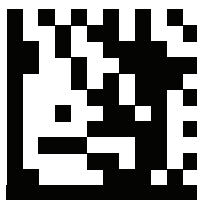


Disable Straight 2 of 5

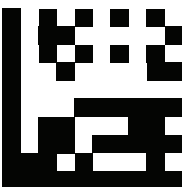


End

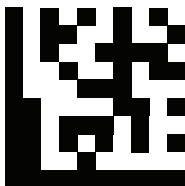
RSS 14 Prefix



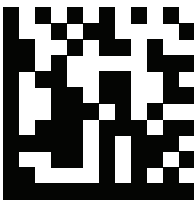
Set



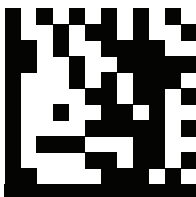
Enable RSS 14



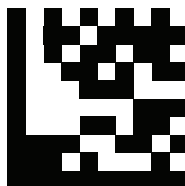
Disable RSS 14



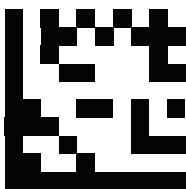
End

RSS Expanded Prefix

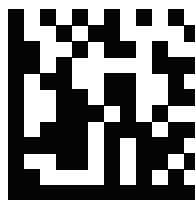
Set



Enable RSS Expanded

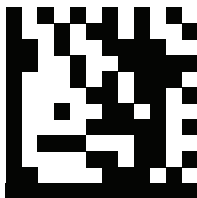


Disable RSS Expanded

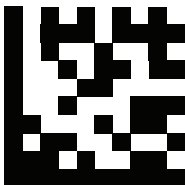


End

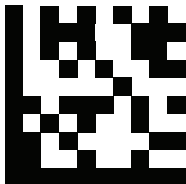
RSS Limited Prefix



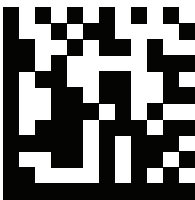
Set



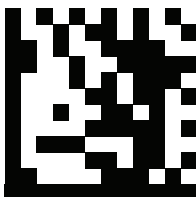
Enable RSS Limited



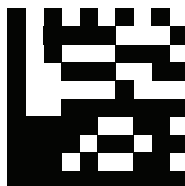
Disable RSS Limited



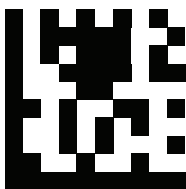
End

Component CC-A Prefix

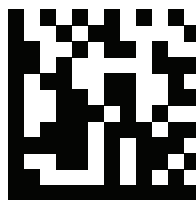
Set



Enable Component CC-A

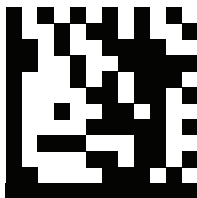


Disable Component CC-A

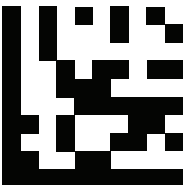


End

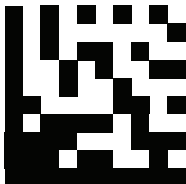
Component CC-B Prefix



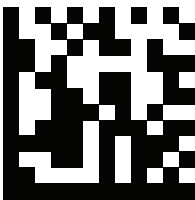
Set



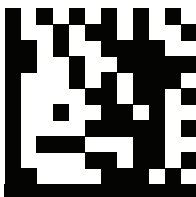
Enable Component CC-B



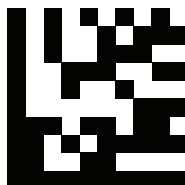
Disable Component CC-B



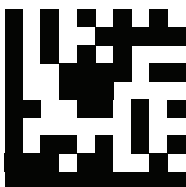
End

Component CC-C Prefix

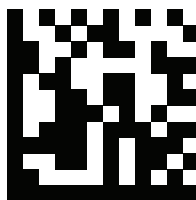
Set



Enable Component CC-C

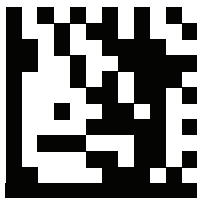


Disable Component CC-C

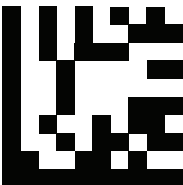


End

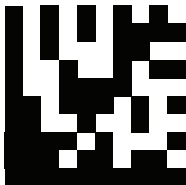
PDF 417 Prefix



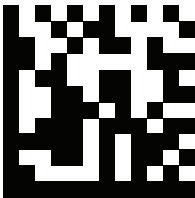
Set



Enable PDF 417

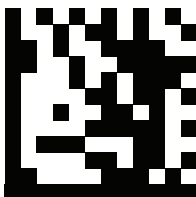


Disable PDF 417

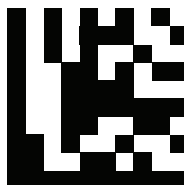


End

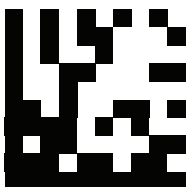
Micro PDF 417 Prefix



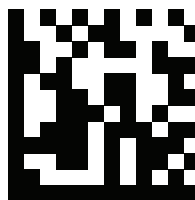
Set



Enable Micro PDF 417

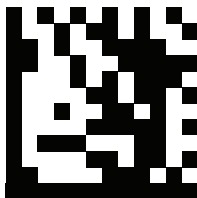


Disable Micro PDF 417

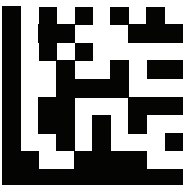


End

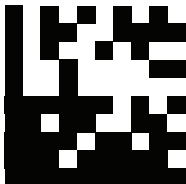
Data Matrix Prefix



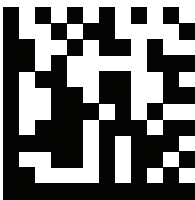
Set



Enable Data Matrix

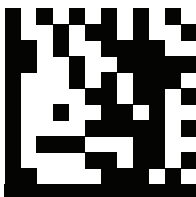


Disable Data Matrix

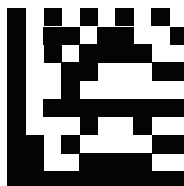


End

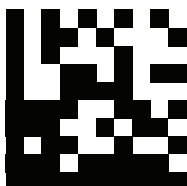
QR Prefix



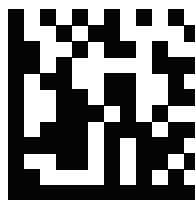
Set



Enable QR Code

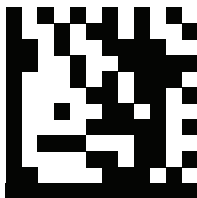


Disable QR Code

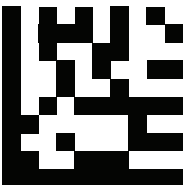


End

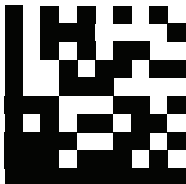
Micro QR Prefix



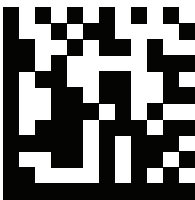
Set



Enable Micro QR

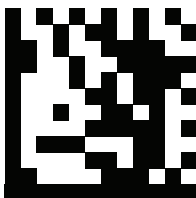


Disable Micro QR

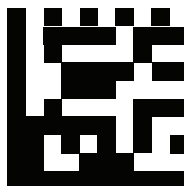


End

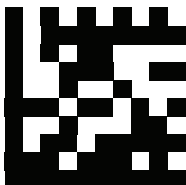
Aztec Prefix



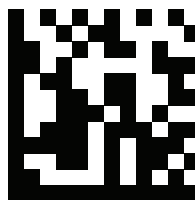
Set



Enable Aztec

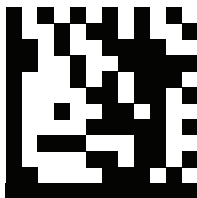


Disable Aztec

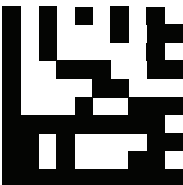


End

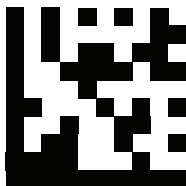
MaxiCode Prefix



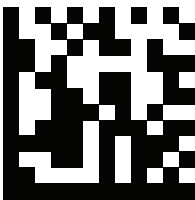
Set



Enable MaxiCode



Disable MaxiCode



End

Data Editing (Suffix)

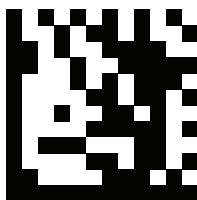
Suffix is additional characters that can be sent after the scanned data. Please scan the barcodes in the selection below to set your suffix.

Suffix Set Up Flow

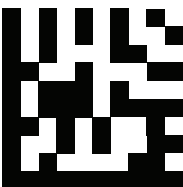
1. Scan Set.
2. Enable barcode type.
3. Scan suffix you would like to add characters within ASCII Table. Up to 4 digits can be added.
4. Scan End.

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

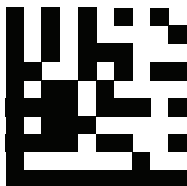
All Suffix



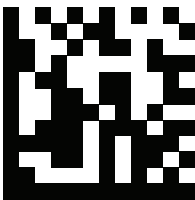
Set



Enable All

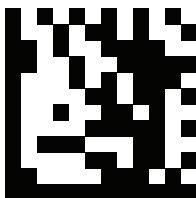


Disable All (Default)

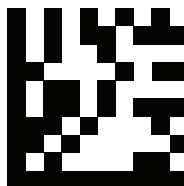


End

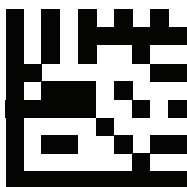
UPC-A Suffix



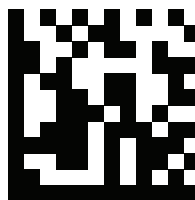
Set



Enable UPC-A

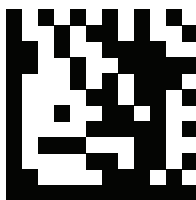


Disable UPC-A

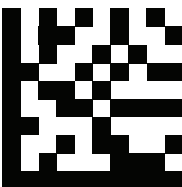


End

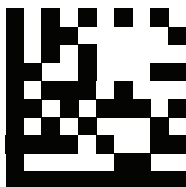
UPC-E Suffix



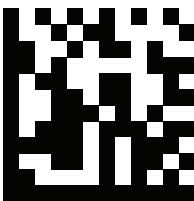
Set



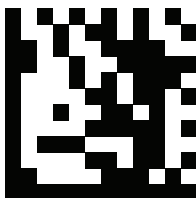
Enable UPC-E



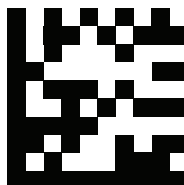
Disable UPC-E



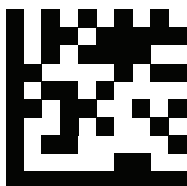
End

EAN 8 Suffix

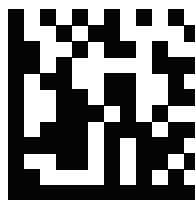
Set



Enable EAN 8

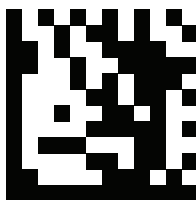


Disable EAN 8



End

EAN 13 Suffix



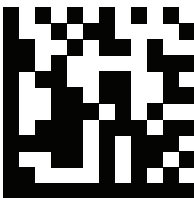
Set



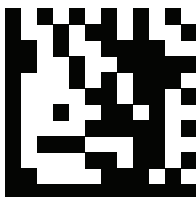
Enable EAN 13



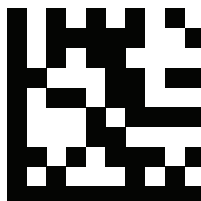
Disable EAN 13



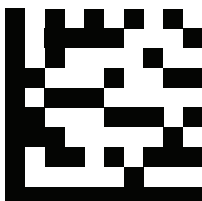
End

Code 128 Suffix

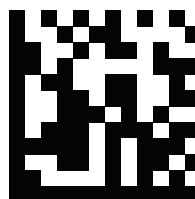
Set



Enable Code 128

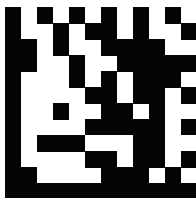


Disable Code 128

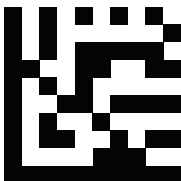


End

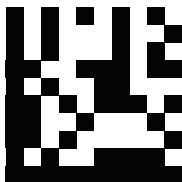
Code 39 Suffix



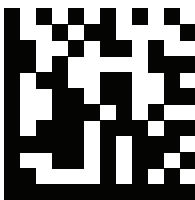
Set



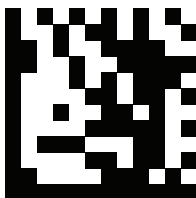
Enable Code 39



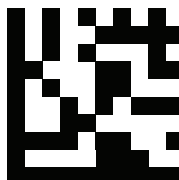
Disable Code 39



End

Code 93 Suffix

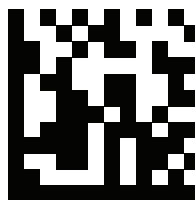
Set



Enable Code 93

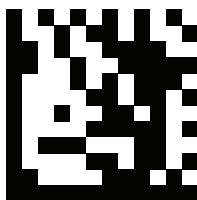


Disable Code 93

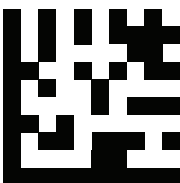


End

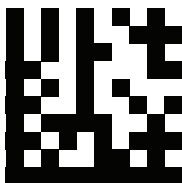
Code 32 Suffix



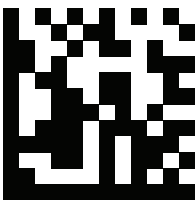
Set



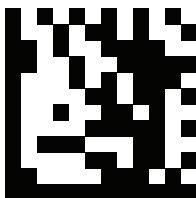
Enable Code 32



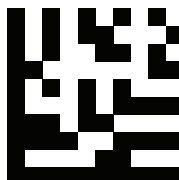
Disable Code 32



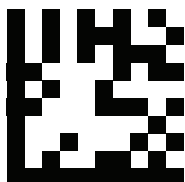
End

Code 11 Suffix

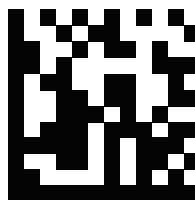
Set



Enable Code 11

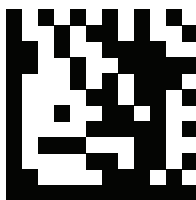


Disable Code 11

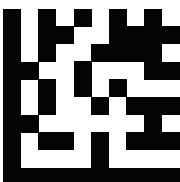


End

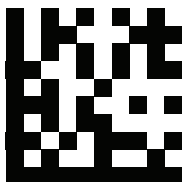
Codabar Suffix



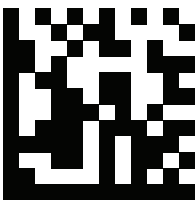
Set



Enable Codabar

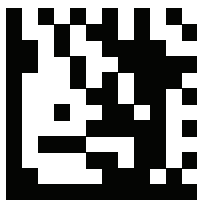


Disable Codabar

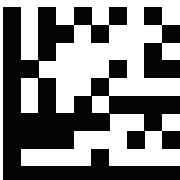


End

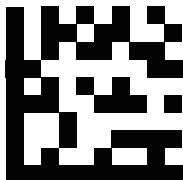
Plessey Suffix



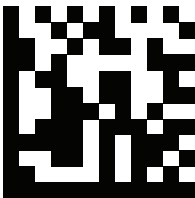
Set



Enable Plessey

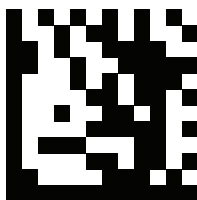


Disable Plessey

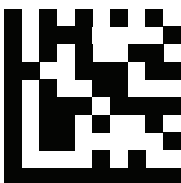


End

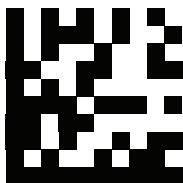
MSI Suffix



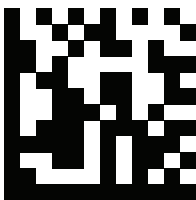
Set



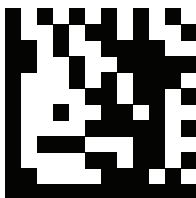
Enable MSI



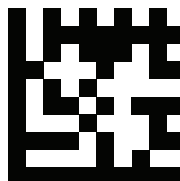
Disable MSI



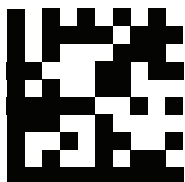
End

Interleaved 2 of 5 Suffix

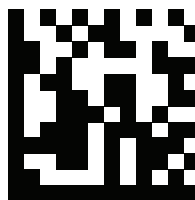
Set



Enable Interleaved 2 of 5

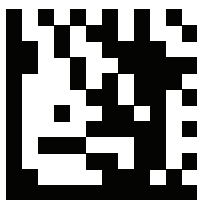


Disable Interleaved 2 of 5

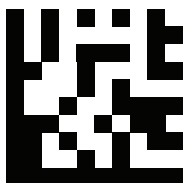


End

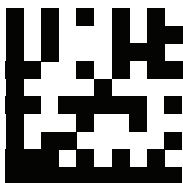
IATA 2 of 5 Suffix



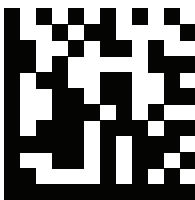
Set



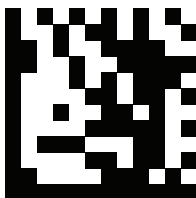
Enable IATA 2 of 5



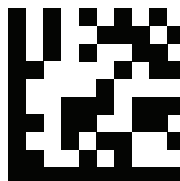
Disable IATA 2 of 5



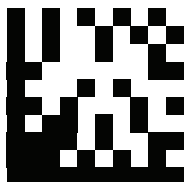
End

Matrix 2 of 5 Suffix

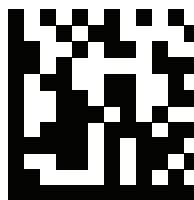
Set



Enable Matrix 2 of 5

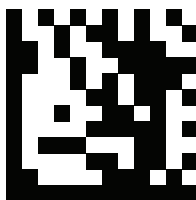


Disable Matrix 2 of 5

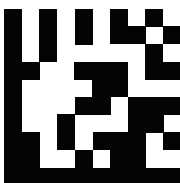


End

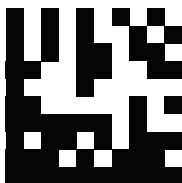
Straight 2 of 5 Suffix



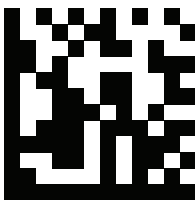
Set



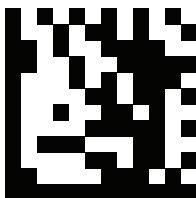
Enable Straight 2 of 5



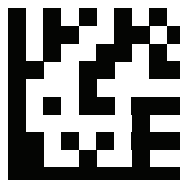
Disable Straight 2 of 5



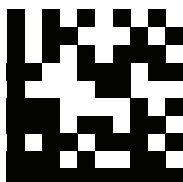
End

RSS 14 Suffix

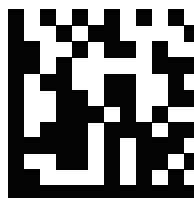
Set



Enable RSS 14

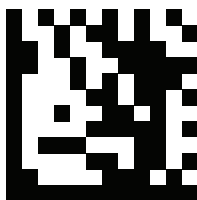


Disable RSS 14

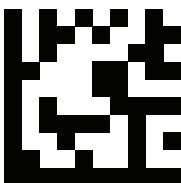


End

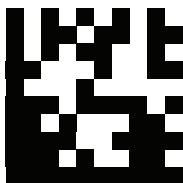
RSS Expanded Suffix



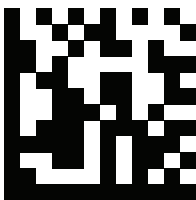
Set



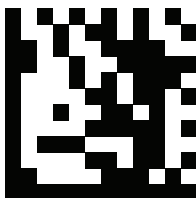
Enable RSS Expanded



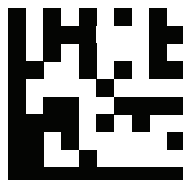
Disable RSS Expanded



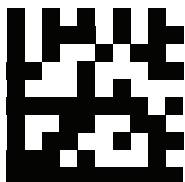
End

RSS Limited Suffix

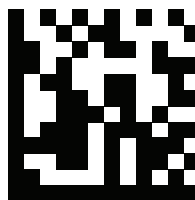
Set



Enable RSS Limited

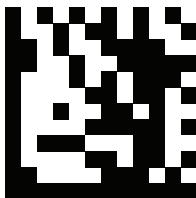


Disable RSS Limited

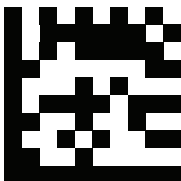


End

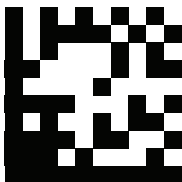
Component CC-A Suffix



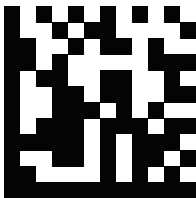
Set



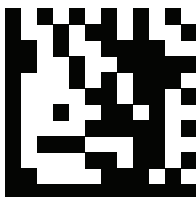
Enable Component CC-A



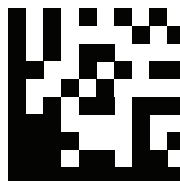
Disable Component CC-A



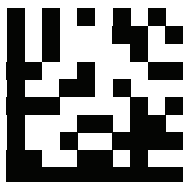
End

Component CC-B Suffix

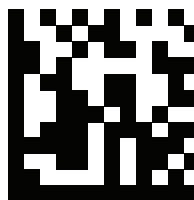
Set



Enable Component CC-B

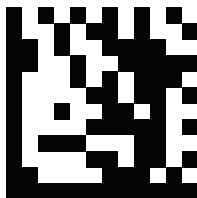


Disable Component CC-B

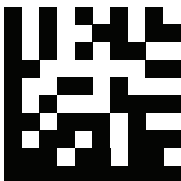


End

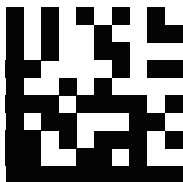
Component CC-C Suffix



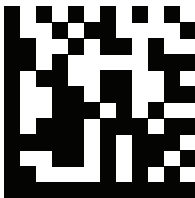
Set



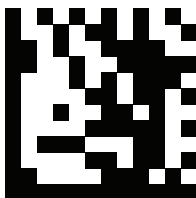
Enable Component CC-C



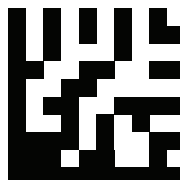
Disable Component CC-C



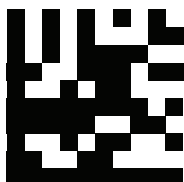
End

PDF-417 Suffix

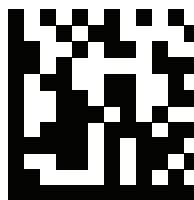
Set



Enable PDF417

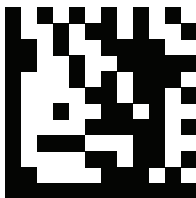


Disable PDF417

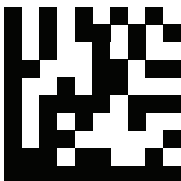


End

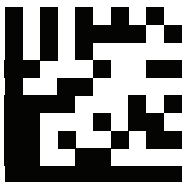
Micro PDF-417 Suffix



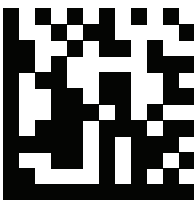
Set



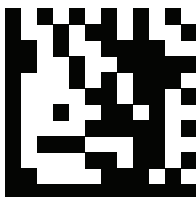
Enable Micro PDF417



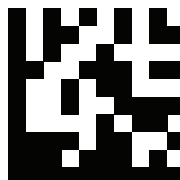
Disable Micro PDF417



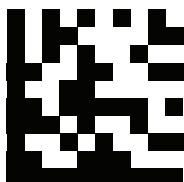
End

Data Matrix Suffix

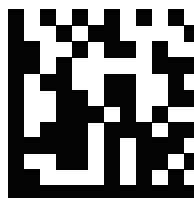
Set



Data Matrix Enable

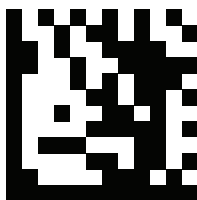


Data Matrix Disable

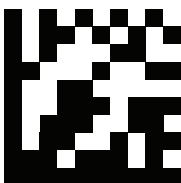


End

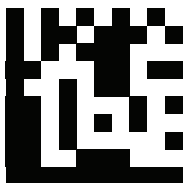
QR Code Suffix



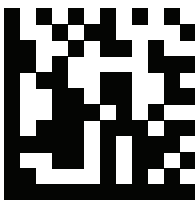
Set



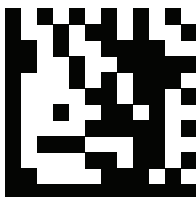
QR Code Enable



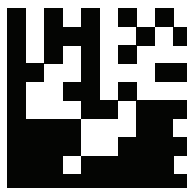
QR Code Disable



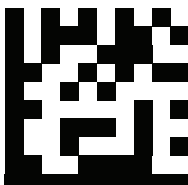
End

Micro QR Suffix

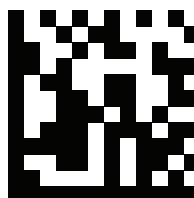
Set



Micro QR Enable

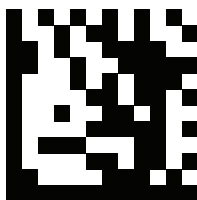


Micro QR Disable

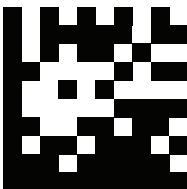


End

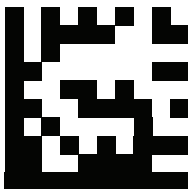
Aztec Suffix



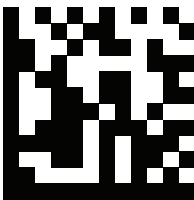
Set



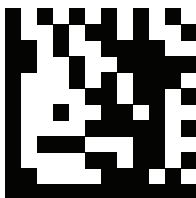
Aztec Enable



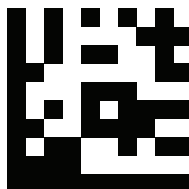
Aztec Disable



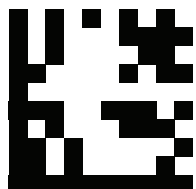
End

MaxiCode Suffix

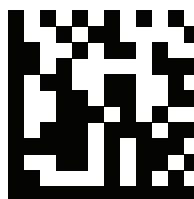
Set



MaxiCode Enable



MaxiCode Disable



End

Code Settings

Set Lengths for Codes

- One Discrete Length

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

Example 1:

To decode Interleaved 2 of 5 symbols with 8 characters:

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

Example 2:

To decode Interleaved 2 of 5 symbols with 12 characters:

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

- Two Discrete Lengths

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

Example:

To decode Code 128 symbols containing either 8 or 14 characters

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

- Length Within Range

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

Example:

To decode Codabar symbols containing between 7 and 8 characters,

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

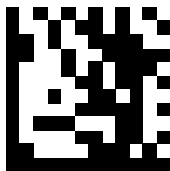
- Any Length

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

Example:

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

Set Lengths for Code 128



Set



One Discrete Length



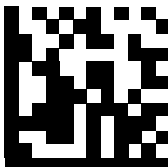
Two Discrete Lengths



Length Within Range

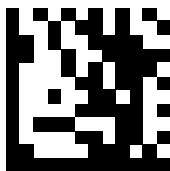


Any Length (Default)



End

Set Lengths for Code 39



Set



One Discrete Length



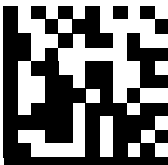
Two Discrete Lengths



Length Within Range

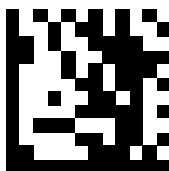


Any Length (Default)



End

Set Lengths for Code 93



Set



One Discrete Length



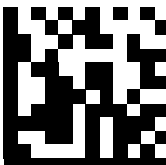
Two Discrete Lengths



Length Within Range

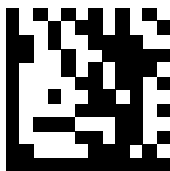


Any Length (Default)



End

Set Lengths for Codabar



Set



One Discrete Length



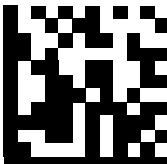
Two Discrete Lengths



Length Within Range

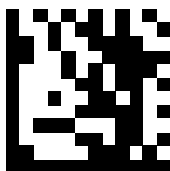


Any Length (Default)



End

Set Lengths for Interleaved 2 of 5



Set



One Discrete Length



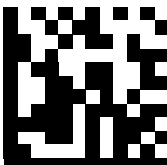
Two Discrete Lengths



Length Within Range

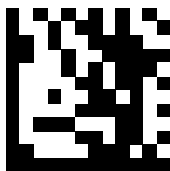


Any Length (Default)



End

Set Lengths for Code 11



Set



One Discrete Length



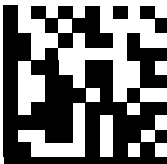
Two Discrete Lengths



Length Within Range

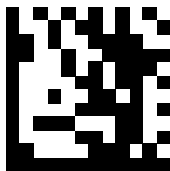


Any Length (Default)

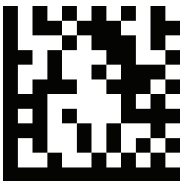


End

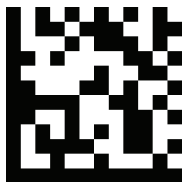
Set Lengths for MSI



Set



One Discrete Length



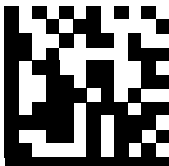
Two Discrete Lengths



Length Within Range

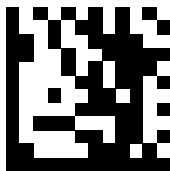


Any Length (Default)



End

Set Lengths for Matrix 2 of 5



Set



One Discrete Length



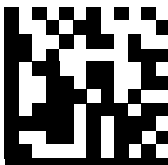
Two Discrete Lengths



Length Within Range



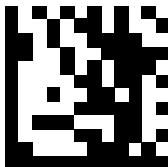
Any Length (Default)



End

Code Identifiers

Scan the following barcodes to set symbology Identifiers.



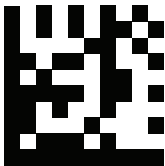
Set



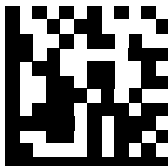
Disable Code ID (Default)



Enable factory standard ID



Enable AIM ID



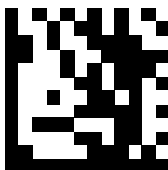
End

Code Identifiers Table

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.



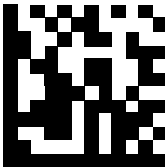
Set



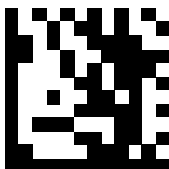
Caps Lock Off (Default)



Caps Lock On



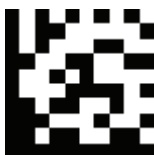
End



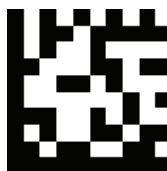
Set



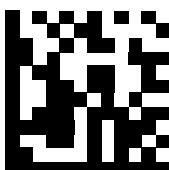
Alphabet always upper case



Alphabet always Lower case



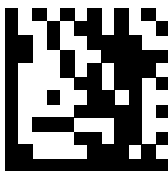
Override



End

Function Key Mapping

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



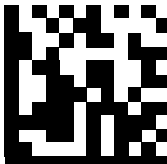
Set



Disable Function Key Mapping (Default)



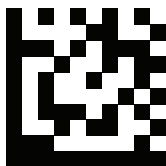
Enable Function Key Mapping



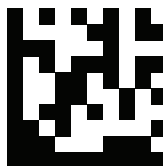
End

ASCII Code

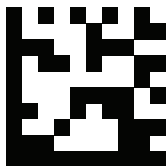
For parameters requiring specific numeric values, scan the appropriately numbered barcode(s).



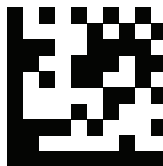
Space



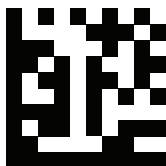
!



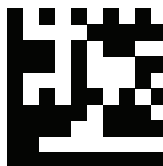
"



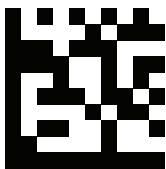
#



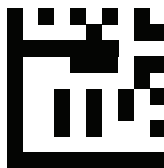
\$



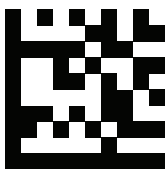
%



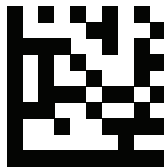
&



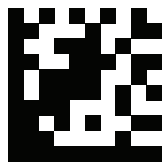
i



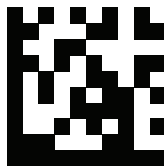
(



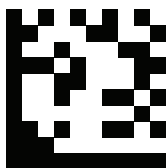
)



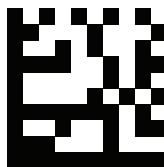
*



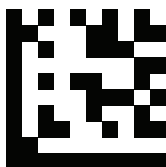
+



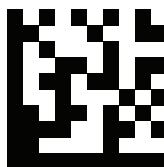
,



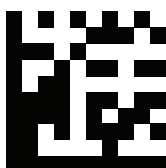
-



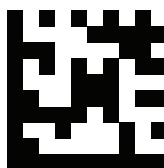
.



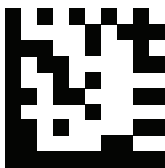
/



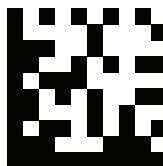
:



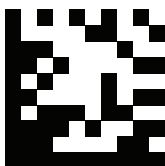
;



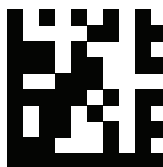
<



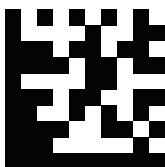
=



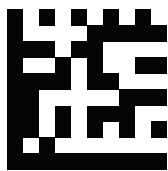
>



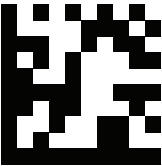
?



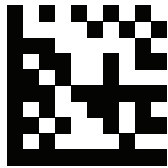
@



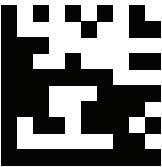
0



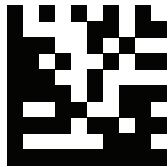
1



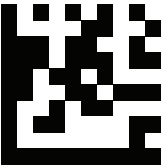
2



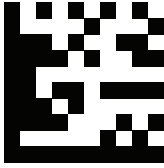
3



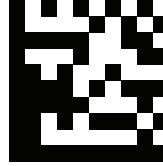
4



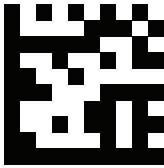
5



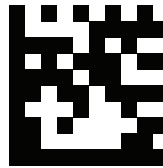
6



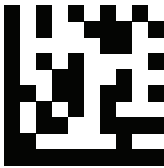
7



8

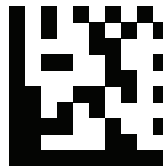


9



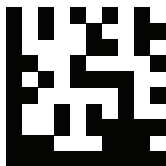
A

(Function Key
Mapping: Ctrl+a)



B

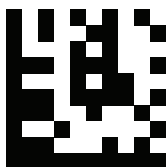
(Function Key
Mapping: Ctrl+b)



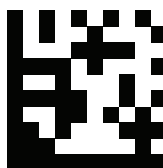
C
(Function Key
Mapping: Ctrl+c)



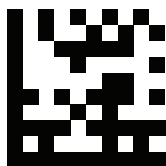
D
(Function Key
Mapping: Ctrl+d)



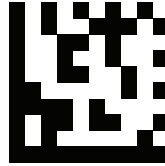
E
(Function Key
Mapping: Ctrl+e)



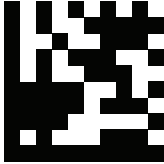
F
(Function Key
Mapping: Ctrl+f)



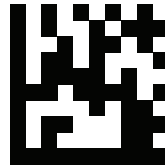
G
(Function Key
Mapping: Ctrl+g)



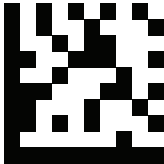
H
(Function Key
Mapping: Ctrl+h)



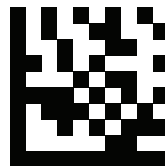
I
(Function Key
Mapping: Ctrl+i)



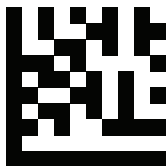
J
(Function Key
Mapping: Ctrl+j)



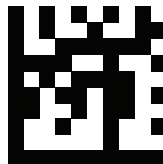
K
(Function Key
Mapping: Ctrl+k)



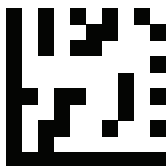
L
(Function Key
Mapping: Ctrl+l)



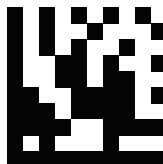
M
(Function Key
Mapping: Ctrl+m)



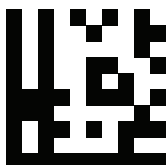
N
(Function Key
Mapping: Ctrl+n)



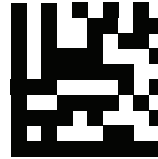
O
(Function Key
Mapping: Ctrl+o)



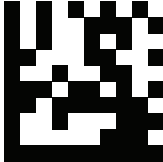
P
(Function Key
Mapping: Ctrl+p)



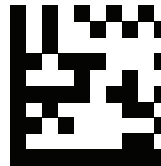
Q
(Function Key
Mapping: Ctrl+q)



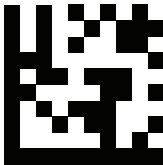
R
(Function Key
Mapping: Ctrl+r)



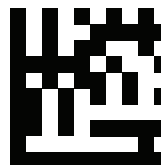
S
(Function Key
Mapping: Ctrl+s)



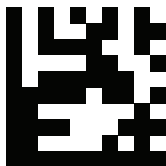
T
(Function Key
Mapping: Ctrl+t)



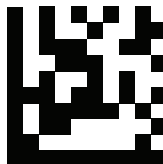
U
(Function Key
Mapping: Ctrl+u)



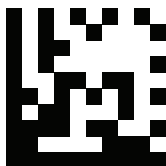
V
(Function Key
Mapping: Ctrl+v)



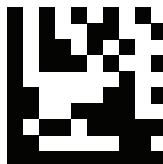
W
(Function Key
Mapping: Ctrl+w)



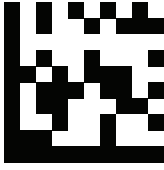
X
(Function Key
Mapping: Ctrl+x)



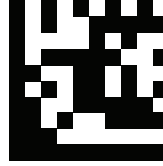
Y
(Function Key
Mapping: Ctrl+y)



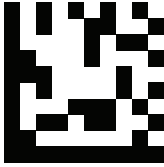
Z
(Function Key
Mapping: Ctrl+z)



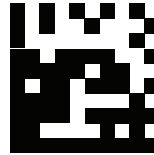
a



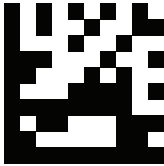
b



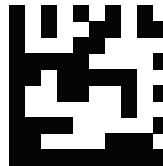
c



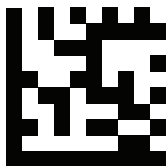
d



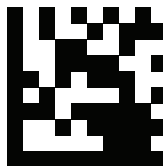
e



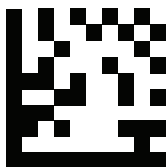
f



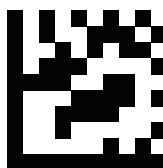
g



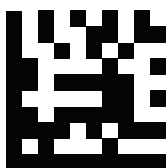
h



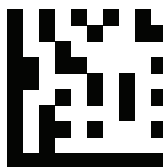
i



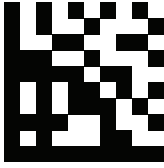
j



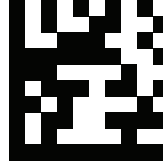
k



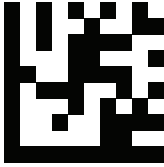
l



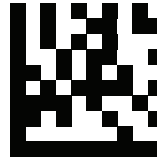
m



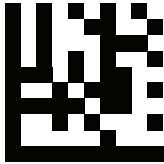
n



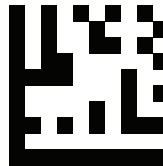
o



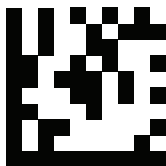
p



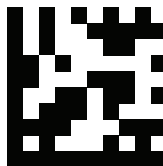
q



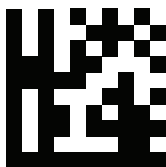
r



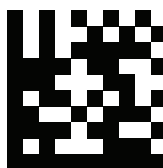
s



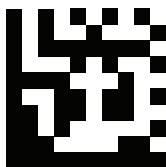
t



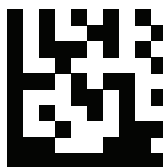
u



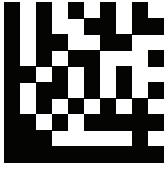
v



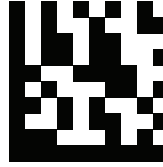
w



x



y



z



Insert



Delete



Home



End



Up arrow



Down arrow



Left arrow



Right arrow



Tab



Backspace



Shift



ESC



Page up



Page down



F1



F2



F3



F4



F5



F6



F7



F8



F9



F10



F11

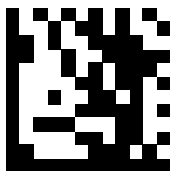


F12

USB Virtual COM Driver Installing

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

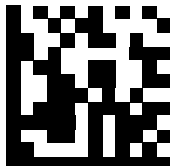
1. Execute the driver (ZEBEX VCOM Driver Installation.exe).
2. Connect the scanner USB cable to the host computer.
3. Set the interface to USB Virtual COM Port.



Set

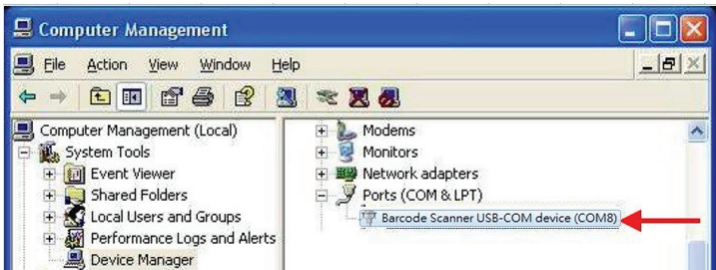


USB Virtual COM Port
*Driver required



End

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



JavaPOS Setting

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

JavaPOS

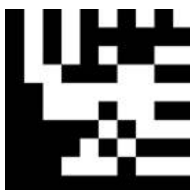
Scan the following barcodes to enable or disable JavaPOS.



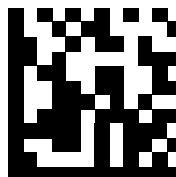
Set



JPOS Enable



JPOS Disable (Default)



End

JavaPOS Version

Our JavaPOS driver now is compatible with JavaPOS1.7.

Install the Java2 Runtime Environment

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

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

Install the Service Object and JavaPOS files

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

How to use RS232 scanner with JavaPOS Driver

Install the Java RXTXcomm API

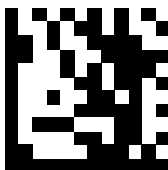
In the \RXTXcomm folder, there are four files: rxtxSerial.dll , rxtxParallel.dll, and RXTXcomm.jar. Please do the following steps to install the library.

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

Use barcodes to configure the scanner

JavaPOS configuration barcodes:

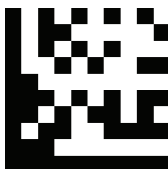
Set



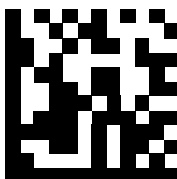
RS-232



JPOS Enable



End



Running the JavaPOS Test utility

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

How to use JavaPOS driver at your application

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

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

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

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

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

</JposEntries>

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

<JposEntries>

</JposEntries>
```

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

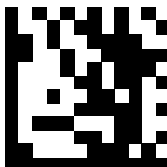
How to use USB scanner with JavaPOS Driver

Configuring the Scanner via barcodes:

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

JavaPOS configuration bar codes:

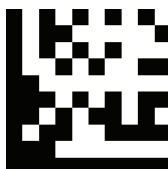
Set



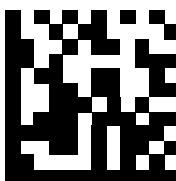
USB Virtual COM Port



JPOS Enable



End



Install the Java RXTXcomm API

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

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

Running the JavaPOS Test utility

Please run the test application to evaluate your installation.

How to Use JavaPOS Driver at your application

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

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

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

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

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

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

<JposEntries>

</JposEntries>
```