Programming Guide

Advanced 2D Image Scanner

This Programming Guide is intended for:

- **2D Image Hands-Free Scanner:** Z-6012GT

Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0	2023-10-6	Initial release

Important Notice

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General Handling Precautions

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

Guidance for Printing

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

Firmware Notice

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

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Default Parameters

The factory default setting table gives the default settings of all the programmable parameters. The default settings will be restored whenever the "Reset" programming label is scanned and the scanner is in programming mode. Default values are highlighted in grey background in the settings.

Factory Default Setting

Scanner Operation

User Preferences	
Parameter	Default
Baud Rate	9600 BPS
Interface	USB Keyboard
Good read beep length	50 msec
Terminal character	CR
Country code	US

Symbologies

Symbology	Default
UPC-A	Enable
UPC-E	Disable
EAN-8	Enable
EAN 13	Enable
JAN code for Books	Disable
Code 128	Enable
Code 39	Enable
Code 93	Enable
Code 32	Disable
Code 11	Disable
Codabar	Enable
Plessey	Enable
MSI/Plessy	Disable
Interleaved 2 of 5	Enable
IATA 2 of 5	Disable
Matrix 2 of 5	Disable
Straight 2 of 5	Disable
RSS 14	Enable
RSS Expanded	Enable
RSS Limited	Enable
Component CC-A	Disable
Component CC-B	Disable
Component CC-C	Disable
PDF417	Enable
Micro PDF417	Enable
Data Matrix	Enable
QR Code	Enable
Micro QR Code	Enable
GS1-2D AIM ID	Disable
GS1-128 AIM ID	Disable
GS1 DataBar Expanded Stacked	Disable
GS1 DataBar 14 Stacked	Disable
Aztec	Disable
MaxiCode	Disable

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

LED Indication

LED	Indication
1 Red flash	A barcode has been successfully decoded.
Steady Blue	Scanner is in work mode.
Red and blue slow interchange	Scanner is in standby.
Red and blue quick interchange	Scanner is updating.
Steady purple	Scanner is in mobile phone mode.

Settings and Programming

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

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

Program Set Up Flow

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

User Preferences

Show Version

Scan this barcode to display firmware version.

Read device information

System Settings

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

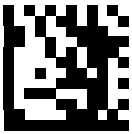
Set

Factory default settings

End

Customer's Factory Default

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



Set

Save customer's factory default

Delete customer's factory default

End

Scan Mode

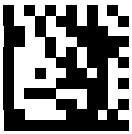
Scan a barcodes below to set the scanner to different modes.

Auto Scan Mode: In this mode, the scanner's illumination LED is turned off. Once an approaching object is detected, the scanner will turn on the illumination LED and start scanning.

Continue Scan Mode: The scanner always turns on its illumination LED for continuous operation without triggering.

Presentation Mode: Under this mode, the scanner keeps its illumination LED lighting on and continuously looks for any object approaching in. Once an approaching object is detected, the scanner starts scanning.

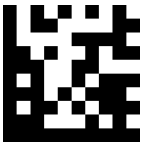
Kiosk Mode: In this mode, the scanner turns off the illumination LED and continuously looks for any object approaching in. Once an approaching object is detected, the scanner starts scanning, and the illumination LED will flash once if decoding complete.



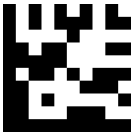
Set

Auto Scan Mode (Default)

Continue Scan Mode



Presentation Mode



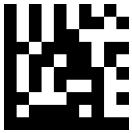
Kiosk Mode

End

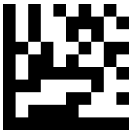
Standby Time

Use the barcodes below to set the standby time for the applicable mode.

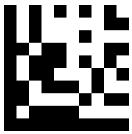
Set



15 seconds



1 minute

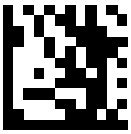


3 minutes

5 minutes (Default)

10 minutes

End


Set

15 minutes

20 minutes

25 minutes

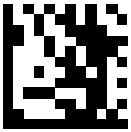
30 minutes

Never

End

Same Code Delay Time for Continue Mode

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



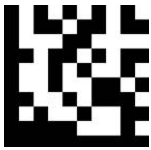
Set

300 msec

500 msec (Default)

1 sec

1.5 sec

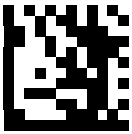


2 sec

End

Decode Time

Set the time required for decoding.



Set

Short (Default)

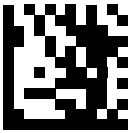
Medium

Long

End

Customization Gain Level

Set gain level for captureed image quality. When the light is low, the higher gain level can enhance the captured image quailty for better scanning performance.



Set

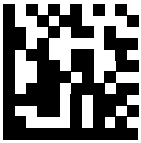
Level 1 (Low)

Level 2

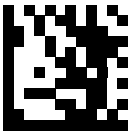
Level 3

Level 4 (Default)

Level 5



End



Set

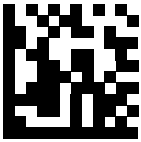
Level 6

Level 7

Level 8

Level 9

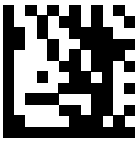
Level 10



End

Motion Detect Sensibility for Auto Scan Mode & Presentation Mode

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



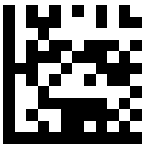
Set

Level 1 (High)

Level 2

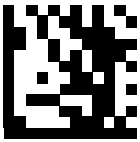
Level 3

Level 4



Level 5 (Default)

End



Set

Level 6

Level 7

Level 8

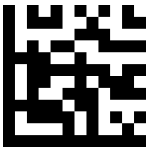
Level 9

Level 10

End

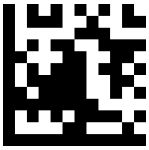
Idle Wake Sensibility Level

Set



Level 1 (Low)

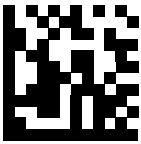
Level 2



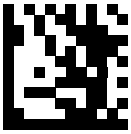
Level 3

Level 4 (Default)

Level 5



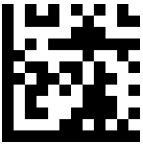
End



Set

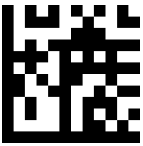
Level 6

Level 7

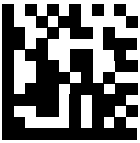


Level 8

Level 9



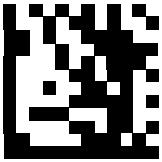
Level 10



End

Illumination LED Behavior

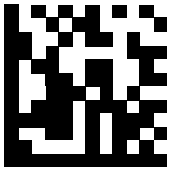
Set illumination behavior when device is in standby.



Set

Illumination LED Standby On

Illumination LED Standby Off
(Default)

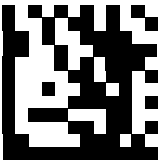


End

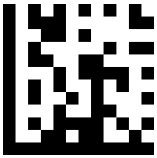
- Illunimation LED Standby On: LED on when in standby mode.
- Illunimation LED Standby Off (Default): LED off when in standby mode.

Decoded Illumination LED Behavior for Kiosk Mode

Set illumination behavior when the device decodes successfully.



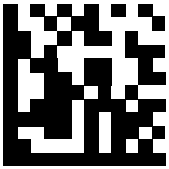
Set



High

Low
(Default)

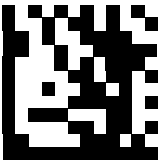
Off



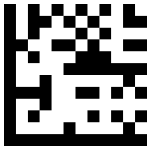
End

Decoded delay time for Auto Scan Mode

Set the delay time after a barcode has been read before scanning the next barcode.



Set

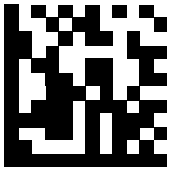


Disable (Default)

400 ms

800 ms

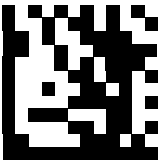
1.2 Sec



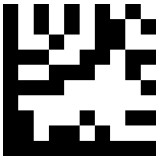
End

Mobile Phone Scan Support

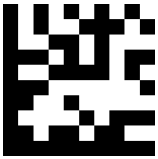
Enable or disable mobile phone scan support.



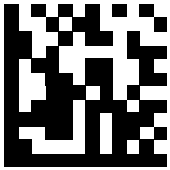
Set



Enable



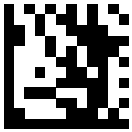
Disable (Default)



End

Power Up Beep On/ Off

Scan a barcode below to turn on/off power up beep.



Set

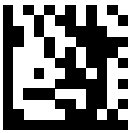
On (Default)

Off

End

Good Read Beep On/ Off

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



Set

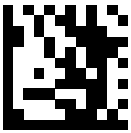
On (Default)

Off

End

Good Read Beep Length

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



Set

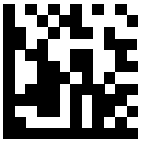
10 msec

50 msec (Default)

100 msec

150 msec

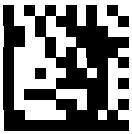
200 msec



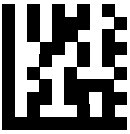
End

Interface Switch

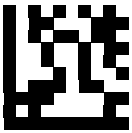
Your 2D Imager supports interfaces such as USB HID, RS232 serial, and USB virtual COM. To switch the interface, simply select the appropriate cable and configure the proper interface by following interface selection.



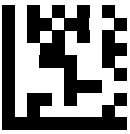
Set



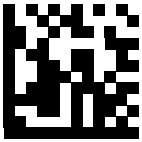
RS-232



USB Keyboard



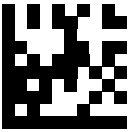
USB Virtual COM Port
*Driver required



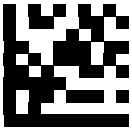
End

Terminal Character

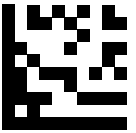
Set



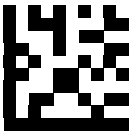
None



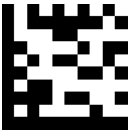
CR/LF
(V-COM & RS-232 Default)



CR
(HID Default)



TAB

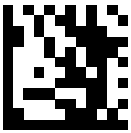


LF

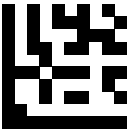
End

RS232 Baud Rate

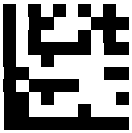
Baud rate is the number of bits of data transmitted per second. Set the imager's baud rate to match the baud rate setting of the host device. Otherwise, data may not reach the host device or may reach it in distorted form.



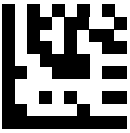
Set



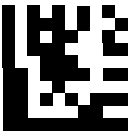
9600 (Default)



19200



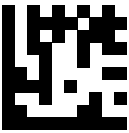
38400



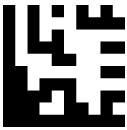
57600

End

Set



115200

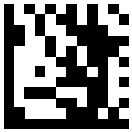


230400

End

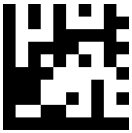
RS232 Parity Bit

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

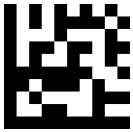


Set

None (Default)



Even parity

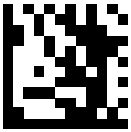


Odd parity

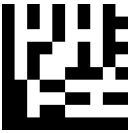
End

RS232 Stop Bit

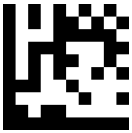
Stop bit is used to signal the end of a transmission.



Set



1 Stop Bit (Default)

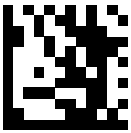


2 Stop Bit

End

RS232 Data Bit

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



Set

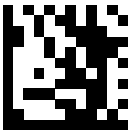
CS7

CS8 (Default)

End

USB Speed

Scan a barcode below to set USB speed.



Set

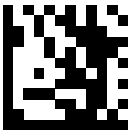
USB 2.0

USB 1.1 (Default)

End

USB Output Speed for USB 1.1

Scan a barcode below to set USB 1.1 output speed.



Set

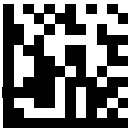
1 (Fastest)

2

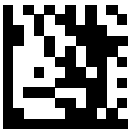
3

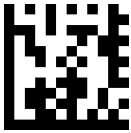
4 (Default)

5



End


Set


6

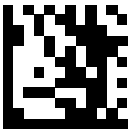
7

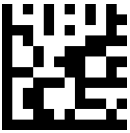
8

9

10

End


Set


11

12

13

14

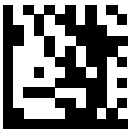
15

16 (Slowest)

End

Country Code

Scann the following settings to change the country code.



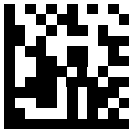
Set

US (Default)

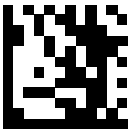
Belgium

Britain

Denmark

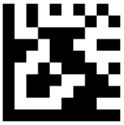


End


Set

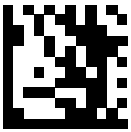
France

Germany


Italy

Norway

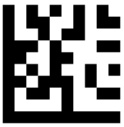
End



Set

Portugal

Spain



Sweden

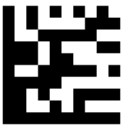
Switzerland

End

Set

Japan

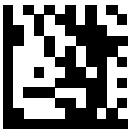
Hungary



Czech Republic

Slovakia

End

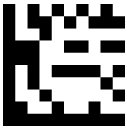


Set

Romania

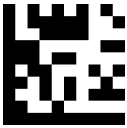
Croatia

Poland



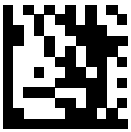
Finland

United Kingdom



Russia

End



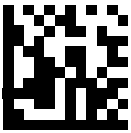
Set

International Keyboard mode

(ALT mode)

Turkey-Q

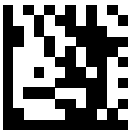
Turkey-F



End

Persian/Arabic Language Encoding Support

Scann the following settings to change the encoding options.



Set

UTF-8 (Default)

ISO 8859-6

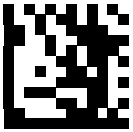
CP1256 (WINDOWS-1256)

End

Readable Symbologies

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

All Symbologies



Set

Enable All

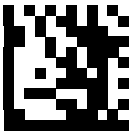
Default

1D Disable

2D Disable

End

UPC-A



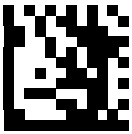
Set

Enable UPC-A (Default)

Disable UPC-A

End

UPC-E



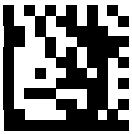
Set

Enable UPC-E

Disable UPC-E (Default)

End

EAN-8



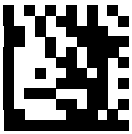
Set

Enable EAN 8 (Default)

Disable EAN 8

End

EAN 13



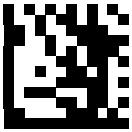
Set

Enable EAN 13 (Default)

Disable EAN 13

End

JAN code for Books



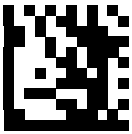
Set

Enable

Disable (Default)

End

Code 128



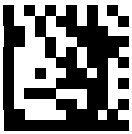
Set

Enable Code 128 (Default)

Disable Code 128

End

Code 39



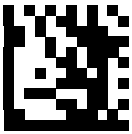
Set

Enable Code 39 (Default)

Disable Code 39

End

Code 93



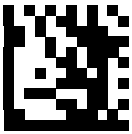
Set

Enable Code 93 (Default)

Disable Code 93

End

Code 32



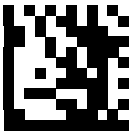
Set

Enable Code 32

Disable Code 32 (Default)

End

Code 11



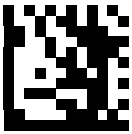
Set

Enable Code 11

Disable Code 11 (Default)

End

Codabar



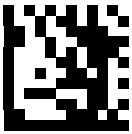
Set

Enable Codabar (Default)

Disable Codabar

End

Plessey



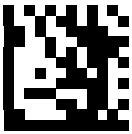
Set

Enable Plessey

Disable Plessey (Default)

End

MSI/Plessy



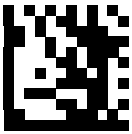
Set

Enable MSI/Plessy

Disable MSI/Plessy (Default)

End

Interleaved 2 of 5



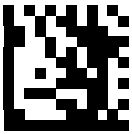
Set

Enable Interleaved 2 of 5 (Default)

Disable Interleaved 2 of 5

End

IATA 2 of 5



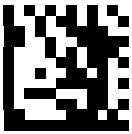
Set

Enable IATA 2 of 5

Disable IATA 2 of 5 (Default)

End

Matrix 2 of 5



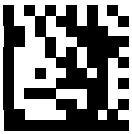
Set

Enable Matrix 2 of 5

Disable Matrix 2 of 5 (Default)

End

Straight 2 of 5



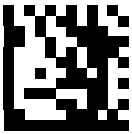
Set

Enable Straight 2 of 5

Disable Straight 2 of 5 (Default)

End

RSS 14 (GS1 DATABAR 14)



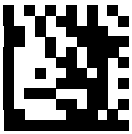
Set

Enable RSS 14 (GS1 DATABAR Expanded)
(Default)

Disable RSS 14 (GS1 DATABAR Expanded)

End

RSS Expanded (GS1 DATABAR Expanded)



Set

Enable RSS Expanded (GS1 DATABAR Expanded) (Default)

Disable RSS Expanded (GS1 DATABAR Expanded)

End

RSS Limited (GS1 DATABAR Limited)

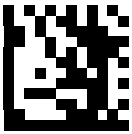
Set

Enable RSS Limited (GS1 DATABAR Limited) (Default)

Disable RSS Limited (GS1 DATABAR Limited)

End

Component CC-A



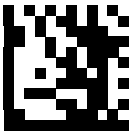
Set

Enable Component CC-A

Disable Component CC-A (Default)

End

Component CC-B



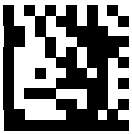
Set

Enable Component CC-B

Disable Component CC-B (Default)

End

Component CC-C



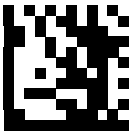
Set

Enable Component CC-C

Disable Component CC-C (Default)

End

PDF417



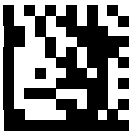
Set

Enable PDF417 (Default)

Disable PDF417

End

Micro PDF417



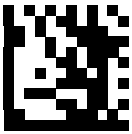
Set

Enable Micro PDF417 (Default)

Disable Micro PDF417

End

Data Matrix



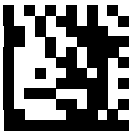
Set

Enable Data Matrix (Default)

Disable Data Matrix

End

QR Code



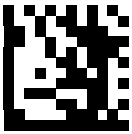
Set

Enable QR Code (Default)

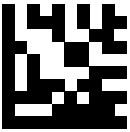
Disable QR Code

End

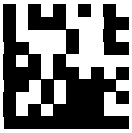
Micro QR Code



Set



Enable Micro QR Code (Default)

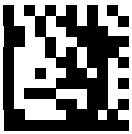


Disable Micro QR Code

End

GS1-2D AIM ID

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



Set

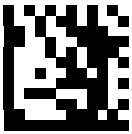
Enable

Disable (Default)

End

GS1-128 AIM ID

GS1-128 output AIM ID Setting.



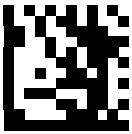
Set

Enable

Disable (Default)

End

GS1 DataBar Expanded Stacked



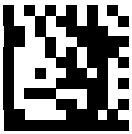
Set

Enable

Disable (Default)

End

GS1 DataBar 14 Stacked



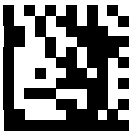
Set

Enable

Disable (Default)

End

Aztec



Set

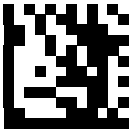
Enable Aztec

Disable Aztec (Default)

End

Pharmacode

(Pharmaceutical Binary Code)



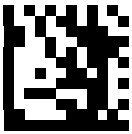
Set

Enable Pharmacode

Disable Pharmacode (Default)

End

MaxiCode



Set

Enable MaxiCode

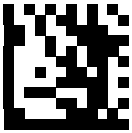
Disable MaxiCode (Default)

End

Symbology Features

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

UPC / EAN



Set

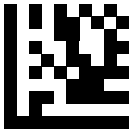
Enable decoding of 2/5-digit supplemental code for UPC-A, UPC-E, EAN-13, and EAN-8

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

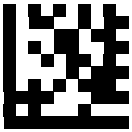
End

UPC-A

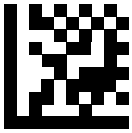
Set



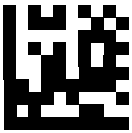
Enable UPC-A Number System digit (Default)



Disable UPC-A Number System digit



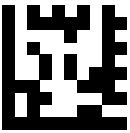
Enable UPC-A check digit (Default)



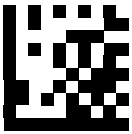
Disable UPC-A check digit

End

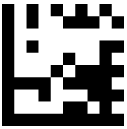
Set



Enable conversion of UPC-A to EAN13



Disable conversion of UPC-A to EAN13 (Default)

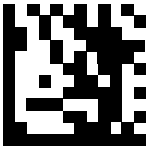


Enable Leading Character

Disable Leading Character (Default)

End

UPC-A Data Redundant Check

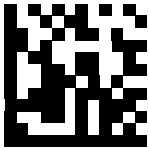

Set

Off (Default)

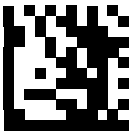
1

2

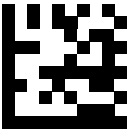
3


End

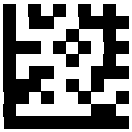
UPC-E



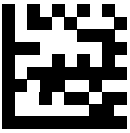
Set



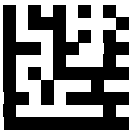
Enable UPC-E Number System digit (Default)



Disable UPC-E Number System digit



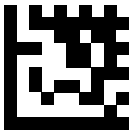
Enable UPC-E check digit (Default)



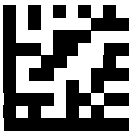
Disable UPC-E check digit

End

Set



Enable conversion of UPC-E to UPC-A

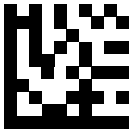


Disable conversion of UPC-E to UPC-A
(Default)

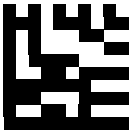
End

EAN 8

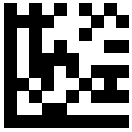
Set



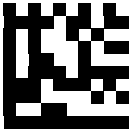
Enable EAN 8 check digit (Default)



Disable EAN 8 check digit



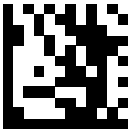
Enable conversion of EAN 8 to EAN 13



Disable conversion of EAN 8 to EAN 13 (Default)

End

EAN 8 Data Redundant Check



Set

Off (Default)

1

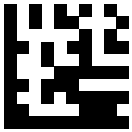
2

3

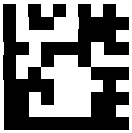
End

EAN 13

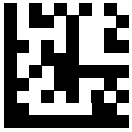
Set



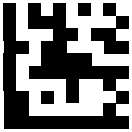
Enable EAN 13 check digit (Default)



Disable EAN 13 check digit



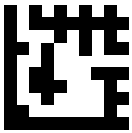
Enable conversion of EAN 13 to ISBN



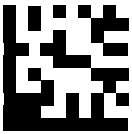
Disable conversion of EAN 13 to ISBN (Default)

End

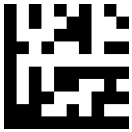
Set



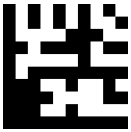
Enable conversion of EAN 13 to ISSN



Disable conversion of EAN 13 to ISSN (Default)



First “0” can transmitted



First “0” can’t transmitted(Default)

End

EAN 13 Data Redundant Check

Set

Off (Default)

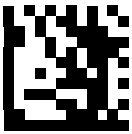
1

2

3

End

JAN code for Books Separator



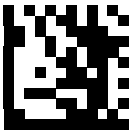
Set

[TAB] key x 2

[SPACE] key x 3

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

End



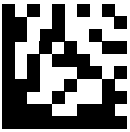
Set

None (Default)

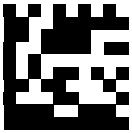
End

Code 39

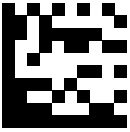
Set



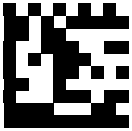
Enable Code 39 full ASCII mode



Disable Code 39 full ASCII mode (Default)



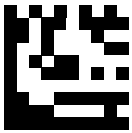
Enable Start and Stop characters



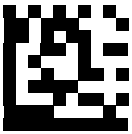
Disable Start and Stop characters (Default)

End

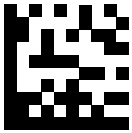
Set



Disable Checksum (Default)



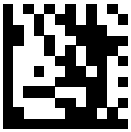
Enable checksum and send check character



Enable checksum and strip check character

End

Code 39 Data Redundant Check



Set

Off (Default)

1

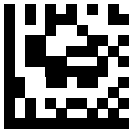
2

3

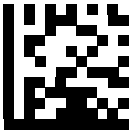
End

Codabar

Set



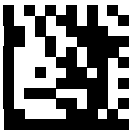
Disable Checksum (Default)



Enable checksum and send check character

Enable checksum and strip check character

End



Set

Enable stripping Start and Stop characters (Default)

Disable stripping Start and Stop characters

End

Codabar Redundant Check

Set

Off

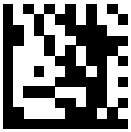
1 (Default)

2

3

End

Code 93 Data Redundant Check



Set

Off (Default)

1

2

3

End

Code 128 Redundant Check

Set

Off

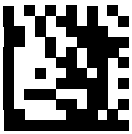
1 (Default)

2

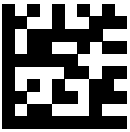
3

End

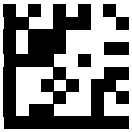
Interleaved 2 of 5



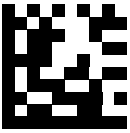
Set



Disable Checksum (Default)



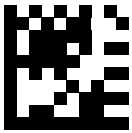
Enable checksum and send check character



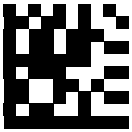
Enable checksum and strip check character

End

Set



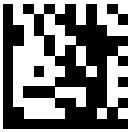
Default quiet zone checking
No length checking performed (Default)



Smaller quiet zone allowed

End

Interleaved 2 of 5 Data Redundant Check



Set

Off (Default)

1

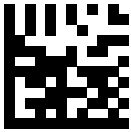
2

3

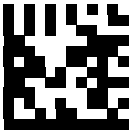
End

MSI / Plessey

Set

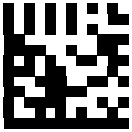


Disable MSI Plessey checksum



Mod 10 checksum (Default)

Mod 10/10 checksum



Mod 11/10 checksum

End

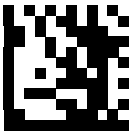
Set

Output checksum character(s) (Default)

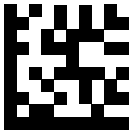
Strip checksum character(s)

End

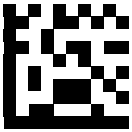
Code 11



Set

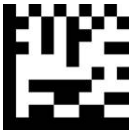


Output checksum character(s)

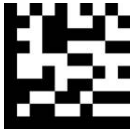


Strip checksum character(s) (Default)

Disable checksum checking



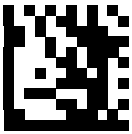
Enable 1-digit checksum checking



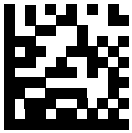
Enable 2-digit checksum checking (Default)

End

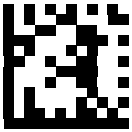
Data Matrix



Set



Enable mirror decoding (Default)



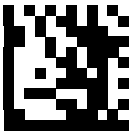
Disable mirror decoding

Enable rectangular Data Matrix decoding

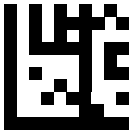
Disable rectangular Data Matrix decoding (Default)

End

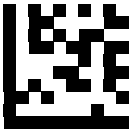
QR / Micro QR



Set

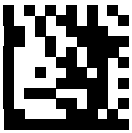


Enable mirror decoding (Default)



Disable mirror decoding

End



Set

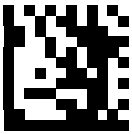
UTF8 conversion for word only

Universal UTF8 conversion (Default)

End

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

Japanese Language Encoding Support



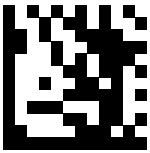
Set

Enable

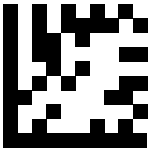
Disable (Default)

End

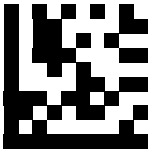
Aztec



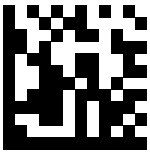
Set



Enable mirror decoding (Default)

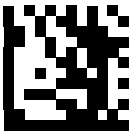


Disable mirror decoding



End

FNC1 GS Substitution Values



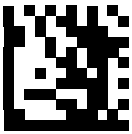
Set

“Ctrl+]” (Default)

“Alt+29(KP)”
(nmvs)

End

Code 32 (Italian Pharmacode)

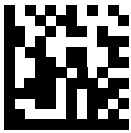


Set

Transmit

Alphabet “A” char

Disable Transmit
Alphabet “A” char
(Default)



End

PDF-417 Data Redundant Check

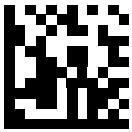
Set

Off (Default)

1

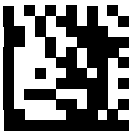
2

3



End

Matrix 2 of 5



Set

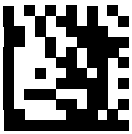
Disable Checksum (Default)

Enable checksum and send check character

Enable checksum and strip check character

End

Straight 2 of 5

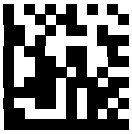


Set

Disable Checksum (Default)

Enable checksum and send check character

Enable checksum and strip check character



End

Data Editing (Prefix)

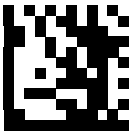
Prefix is additional characters that can be sent before the scanned data. Please scan the barcodes in the selection below to set your prefix.

Prefix Set Up Flow

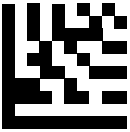
1. Scan Set.
2. Enable barcode type.
3. Scan prefix you would like to add characters within ASCII Table. Up to 4 digits can be added.
4. Scan End.

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.

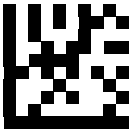
All Prefix



Set



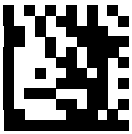
Enable All



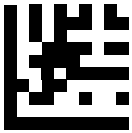
Disable All (Default)

End

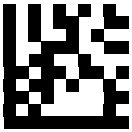
UPC / EAN Prefix



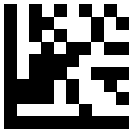
Set



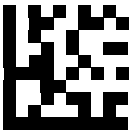
Enable UPC-A



Disable UPC-A



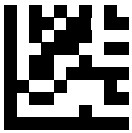
Enable UPC-E



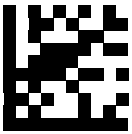
Disable UPC-E

End

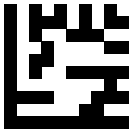
Set



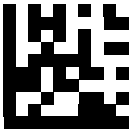
Enable EAN 8



Disable EAN 8



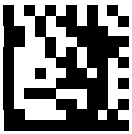
Enable EAN 13



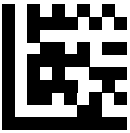
Disable EAN 13

End

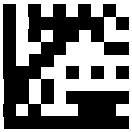
Code 128 Prefix



Set



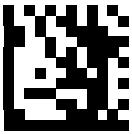
Enable Code 128



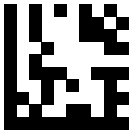
Disable Code 128

End

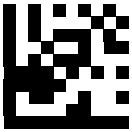
Code 39 Prefix



Set



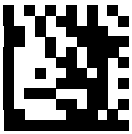
Enable Code 39



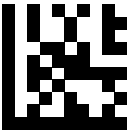
Disable Code 39

End

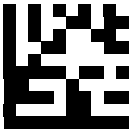
Code 93 Prefix



Set



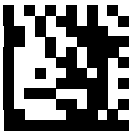
Enable Code 93



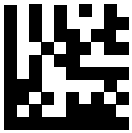
Disable Code 93

End

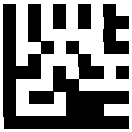
Code 32 Prefix



Set



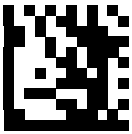
Enable Code 32



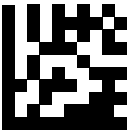
Disable Code 32

End

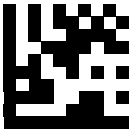
Code 11 Prefix



Set



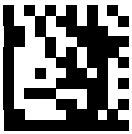
Enable Code 11



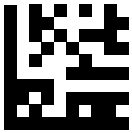
Disable Code 11

End

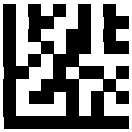
Codabar Prefix



Set



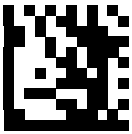
Enable Codabar



Disable Codabar

End

Plessey Prefix



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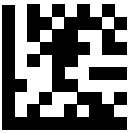

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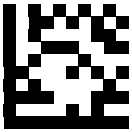

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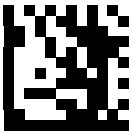
End

MSI Prefix



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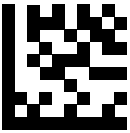

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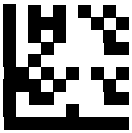

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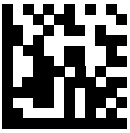

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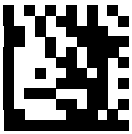
Interleaved 2 of 5Prefix



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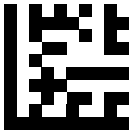
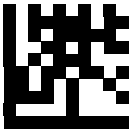


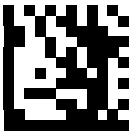
Enable Interleaved 2 of 5



Disable Interleaved 2 of 5

End

IATA 2 of 5 Prefix



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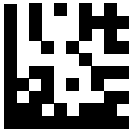
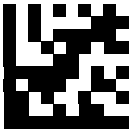


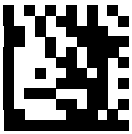
Enable IATA 2 of 5



Disable IATA 2 of 5

End

Matrix 2 of 5 Prefix



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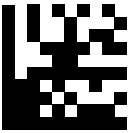
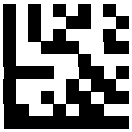


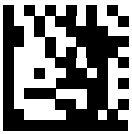
Enable Matrix 2 of 5



Disable Matrix 2 of 5

End

Straight 2 of 5 Prefix



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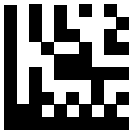
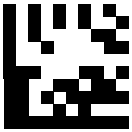


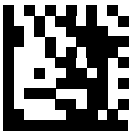
Enable Straight 2 of 5



Disable Straight 2 of 5

End

RSS 14 Prefix (GS1 DATABAR 14 Prefix)



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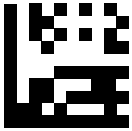
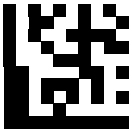


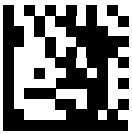
Enable RSS 14 (GS1 DATABAR 14 Prefix)



Disable RSS 14 (GS1 DATABAR 14 Prefix)

End

RSS Expanded Prefix (GS1 DATABAR Expanded Prefix)



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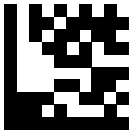
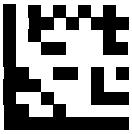


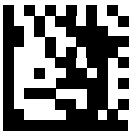
Enable RSS Expanded (GS1 DATABAR Expanded Prefix)



Disable RSS Expanded (GS1 DATABAR Expanded Prefix)

End

RSS Limited Prefix (GS1 DATABAR Limited Prefix)



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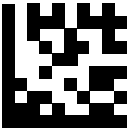
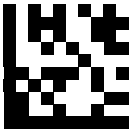


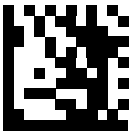
Enable RSS Limited (GS1 DATABAR Limited Prefix)



Disable RSS Limited (GS1 DATABAR Limited Prefix)

End

Component CC-A Prefix



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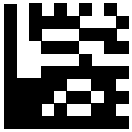
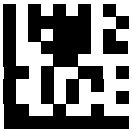


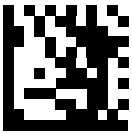
Enable Component CC-A



Disable Component CC-A

End

Component CC-B Prefix



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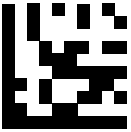

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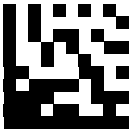
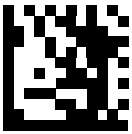


Disable Component CC-B

End

Component CC-C Prefix



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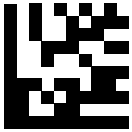
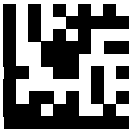


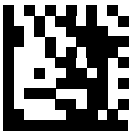
Enable Component CC-C



Disable Component CC-C

End

PDF 417 Prefix



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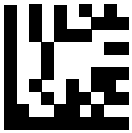
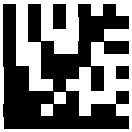


Enable PDF 417



Disable PDF 417

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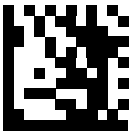
Micro PDF 417 Prefix



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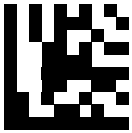
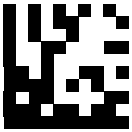


Enable Micro PDF 417



Disable Micro PDF 417

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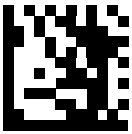
Data Matrix Prefix



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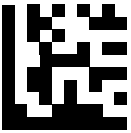
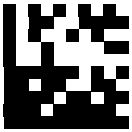


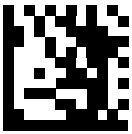
Enable Data Matrix



Disable Data Matrix

End

QR Prefix



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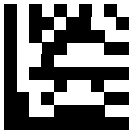

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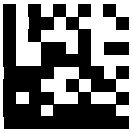

Disable QR Code

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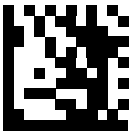
Micro QR Prefix



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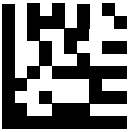
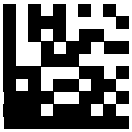


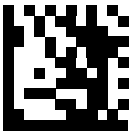
Enable Micro QR



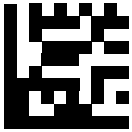
Disable Micro QR

End

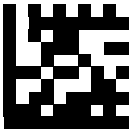
Aztec Prefix



Set



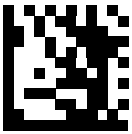
Enable Aztec



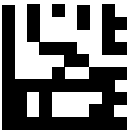
Disable Aztec

End

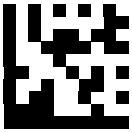
MaxiCode Prefix



Set



Enable MaxiCode



Disable MaxiCode

End

Data Editing (Suffix)

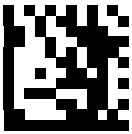
Suffix is additional characters that can be sent after the scanned data. Please scan the barcodes in the selection below to set your suffix.

Suffix Set Up Flow

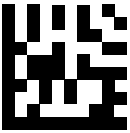
1. Scan Set.
2. Enable barcode type.
3. Scan suffix you would like to add characters within ASCII Table. Up to 4 digits can be added.
4. Scan End.

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.

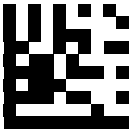
All Suffix



Set



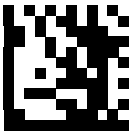
Enable All



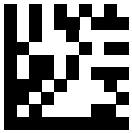
Disable All (Default)

End

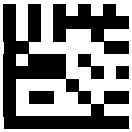
UPC-A Suffix



Set



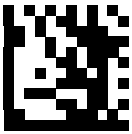
Enable UPC-A



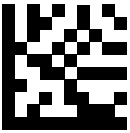
Disable UPC-A

End

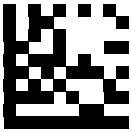
UPC-E Suffix



Set



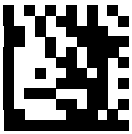
Enable UPC-E



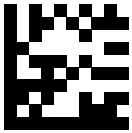
Disable UPC-E

End

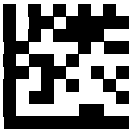
EAN 8 Suffix



Set



Enable EAN 8

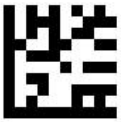


Disable EAN 8

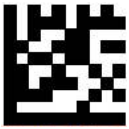
End

EAN 13 Suffix

Set



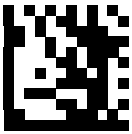
Enable EAN 13



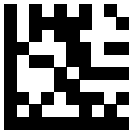
Disable EAN 13

End

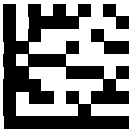
Code 128 Suffix



Set



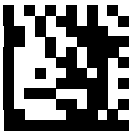
Enable Code 128



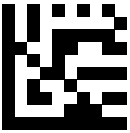
Disable Code 128

End

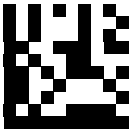
Code 39 Suffix



Set



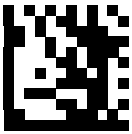
Enable Code 39



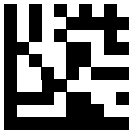
Disable Code 39

End

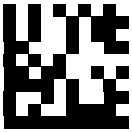
Code 93 Suffix



Set



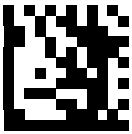
Enable Code 93



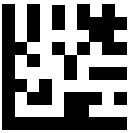
Disable Code 93

End

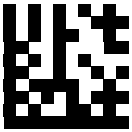
Code 32 Suffix



Set



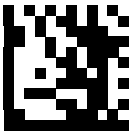
Enable Code 32



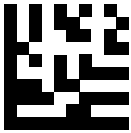
Disable Code 32

End

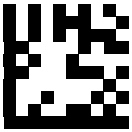
Code 11 Suffix



Set



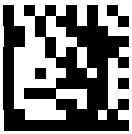
Enable Code 11



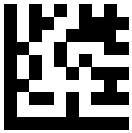
Disable Code 11

End

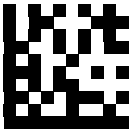
Codabar Suffix



Set



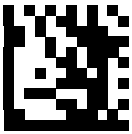
Enable Codabar



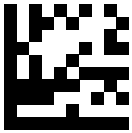
Disable Codabar

End

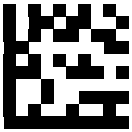
Plessey Suffix



Set



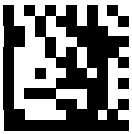
Enable Plessey



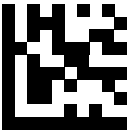
Disable Plessey

End

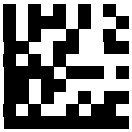
MSI Suffix



Set



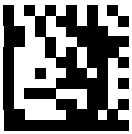
Enable MSI



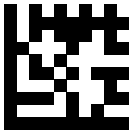
Disable MSI

End

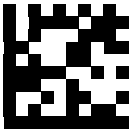
Interleaved 2 of 5 Suffix



Set



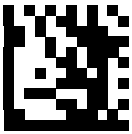
Enable Interleaved 2 of 5



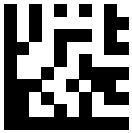
Disable Interleaved 2 of 5

End

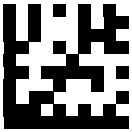
IATA 2 of 5 Suffix



Set



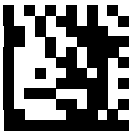
Enable IATA 2 of 5



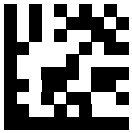
Disable IATA 2 of 5

End

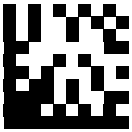
Matrix 2 of 5 Suffix



Set



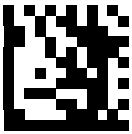
Enable Matrix 2 of 5



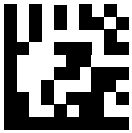
Disable Matrix 2 of 5

End

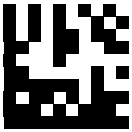
Straight 2 of 5 Suffix



Set



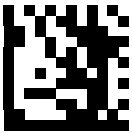
Enable Straight 2 of 5



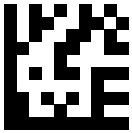
Disable Straight 2 of 5

End

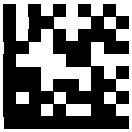
RSS 14 Suffix (GS1 DATABAR 14 Suffix)



Set



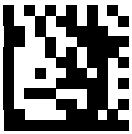
Enable RSS 14 (GS1 DATABAR 14 Suffix)



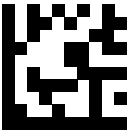
Disable RSS 14 (GS1 DATABAR 14 Suffix)

End

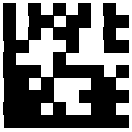
RSS Expanded Suffix (GS1 DATABAR Expanded Suffix)



Set



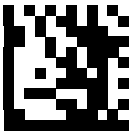
Enable RSS Expanded (GS1 DATABAR Expanded Suffix)



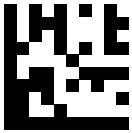
Disable RSS Expanded (GS1 DATABAR Expanded Suffix)

End

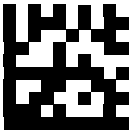
RSS Limited Suffix (GS1 DATABAR Limited Suffix)



Set



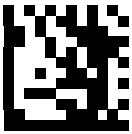
Enable RSS Limited (GS1 DATABAR Limited Suffix)



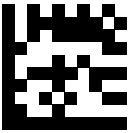
Disable RSS Limited (GS1 DATABAR Limited Suffix)

End

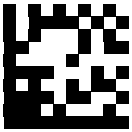
Component CC-A Suffix



Set



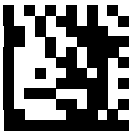
Enable Component CC-A



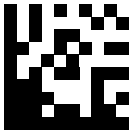
Disable Component CC-A

End

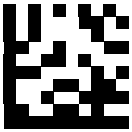
Component CC-B Suffix



Set



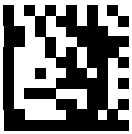
Enable Component CC-B



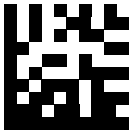
Disable Component CC-B

End

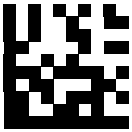
Component CC-C Suffix



Set



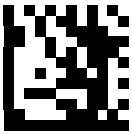
Enable Component CC-C



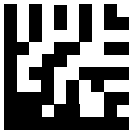
Disable Component CC-C

End

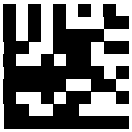
PDF-417 Suffix



Set



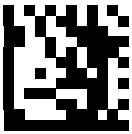
Enable PDF417



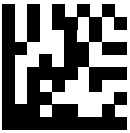
Disable PDF417

End

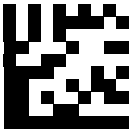
Micro PDF-417 Suffix



Set



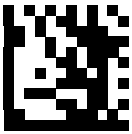
Enable Micro PDF417



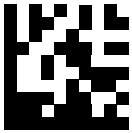
Disable Micro PDF417

End

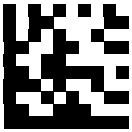
Data Matrix Suffix



Set



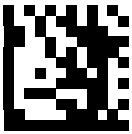
Data Matrix Enable



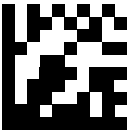
Data Matrix Disable

End

QR Code Suffix



Set

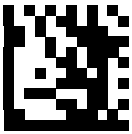


QR Code Enable

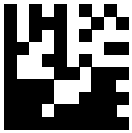
QR Code Disable

End

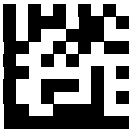
Micro QR Suffix



Set



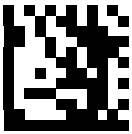
Micro QR Enable



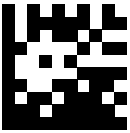
Micro QR Disable

End

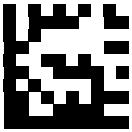
Aztec Suffix



Set



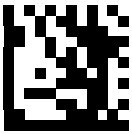
Aztec Enable



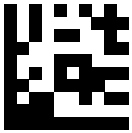
Aztec Disable

End

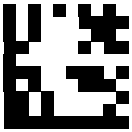
MaxiCode Suffix



Set



MaxiCode Enable



MaxiCode Disable

End

Data Editing (Truncate/Return)

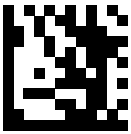
Truncate/Return Commands:

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

Suffix Set Up Flow

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

Set All Symbologies Truncate/Return



Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

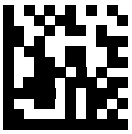
End

Set

Return middle

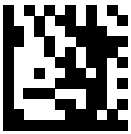
Truncate middle

Disable All (Default)



End

Set UPC-A Truncate/Return



Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

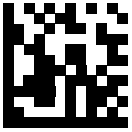
End

Set

Return middle

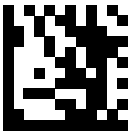
Truncate middle

Disable (Default)



End

Set UPC-E Truncate/Return



Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

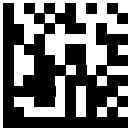
End

Set

Return middle

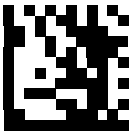
Truncate middle

Disable (Default)



End

Set EAN-8 Truncate/Return



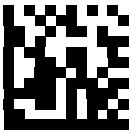
Set

Return leftmost

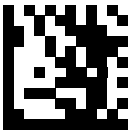
Truncate leftmost

Return rightmost

Truncate rightmost



End



Set

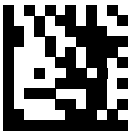
Return middle

Truncate middle

Disable (Default)

End

Set EAN 13 Truncate/Return



Set

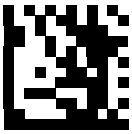
Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End



Set

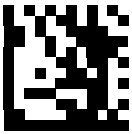
Return middle

Truncate middle

Disable (Default)

End

Set Code 128 Truncate/Return



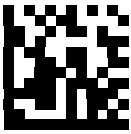
Set

Return leftmost

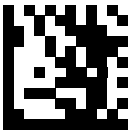
Truncate leftmost

Return rightmost

Truncate rightmost



End



Set

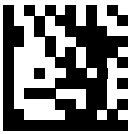
Return middle

Truncate middle

Disable (Default)

End

Set Code 39 Truncate/Return



Set

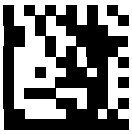
Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End



Set

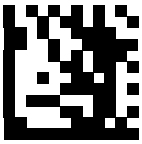
Return middle

Truncate middle

Disable (Default)

End

Set Code 93 Truncate/Return



Set

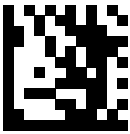
Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End



Set

Return middle

Truncate middle

Disable (Default)

End

Set Code 32 Truncate/Return

Set

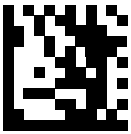
Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End



Set

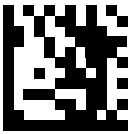
Return middle

Truncate middle

Disable (Default)

End

Set Code 11 Truncate/Return



Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End

Set

Return middle

Truncate middle

Disable (Default)

End

Set Codabar Truncate/Return

Set

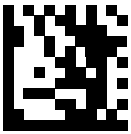
Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End



Set

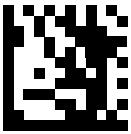
Return middle

Truncate middle

Disable (Default)

End

Set Plessey Truncate/Return



Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End

Set

Return middle

Truncate middle

Disable (Default)

End

Set MSI (Modified Plessy) Truncate/Return

Set

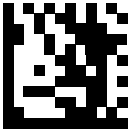
Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End



Set

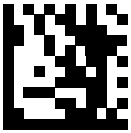
Return middle

Truncate middle

Disable (Default)

End

Set Interleaved 2 of 5 Truncate/Return



Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End

Set

Return middle

Truncate middle

Disable (Default)

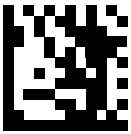
End

Interleaved 2 of 5 (ITF).ReturnLeft.4

Disable (default)

Enable

Set IATA 2 of 5 Truncate/Return



Set

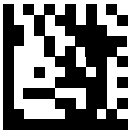
Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End



Set

Return middle

Truncate middle

Disable (Default)

End

Set Matrix 2 of 5 Truncate/Return

Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End

Set

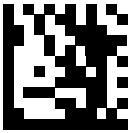
Return middle

Truncate middle

Disable (Default)

End

Set Straight 2 of 5 Truncate/Return



Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

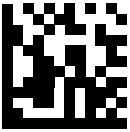
End

Set

Return middle

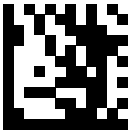
Truncate middle

Disable (Default)



End

Set RSS 14 (GS1 DataBar) Truncate/Return



Set

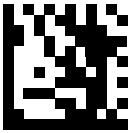
Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End



Set

Return middle

Truncate middle

Disable (Default)

End

Set RSS Expanded (GS1 DataBar Expanded) Truncate/Return

Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

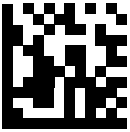
End

Set

Return middle

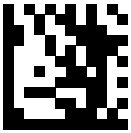
Truncate middle

Disable (Default)



End

Set RSS Limited (GS1 DataBar Limited) Truncate/Return



Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End

Set

Return middle

Truncate middle

Disable (Default)

End

Set Component CC-A Truncate/Return

Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

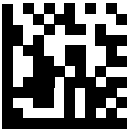
End

Set

Return middle

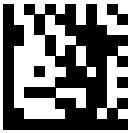
Truncate middle

Disable (Default)



End

Set Component CC-B Truncate/Return



Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End

Set

Return middle

Truncate middle

Disable (Default)

End

Set Component CC-C Truncate/Return

Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

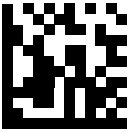
End

Set

Return middle

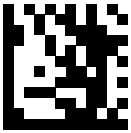
Truncate middle

Disable (Default)



End

Set PDF 417 Truncate/Return



Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End

Set

Return middle

Truncate middle

Disable (Default)

End

Set Micro PDF 417 Truncate/Return

Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End

Set

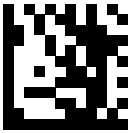
Return middle

Truncate middle

Disable (Default)

End

Set Data Martrix Truncate/Return



Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End

Set

Return middle

Truncate middle

Disable (Default)

End

Set QR Truncate/Return

Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

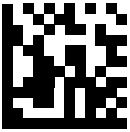
End

Set

Return middle

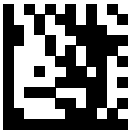
Truncate middle

Disable (Default)



End

Set Micro QR Truncate/Return



Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End

Set

Return middle

Truncate middle

Disable (Default)

End

Set Aztec Truncate/Return

Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End

Set

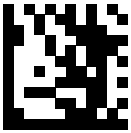
Return middle

Truncate middle

Disable (Default)

End

Set MaxiCode Truncate/Return



Set

Return leftmost

Truncate leftmost

Return rightmost

Truncate rightmost

End

Set

Return middle

Truncate middle

Disable (Default)

End

Code Settings

Set Lengths for Codes

- One Discrete Length

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

  Example 1:
  To decode Interleaved 2 of 5 symbols with 8 characters:
  a. scan Set to set up
  b. scan Interleaved 2 of 5 One Discrete Length
  c. scan 8 in ASCII Code Table
  d. scan End to confirm the setup

  Example 2:
  To decode Interleaved 2 of 5 symbols with 12 characters:
  a. scan Set to set up
  b. scan Interleaved 2 of 5 One Discrete Length
  c. scan scan 1 followed by 2 in ASCII Code Table
  d. scan End to confirm the setup

- Two Discrete Lengths

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

  Example:
  To decode Code 128 symbols containing either 8 or 14 characters
  a. scan Set to set up
  b. scan Code 128 Two Discrete Length
  c. scan 0, 8, 1, and then 4 in ASCII Code Table
  d. scan End to confirm the setup

- Length Within Range

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

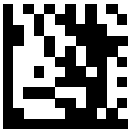
  Example:
  To decode Codabar symbols containing between 7 and 8 characters,
  a. scan Set to set up
  b. scan Codabar Length Within Range
  c. scan 0, 7, 0, and then 8 in ASCII Code Table
  d. scan End to confirm the setup

- Any Length

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

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

Set Lengths for Code 128



Set

One Discrete Length

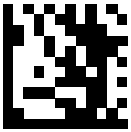
Two Discrete Lengths

Length Within Range

Any Length (Default)

End

Set Lengths for Code 39



Set

One Discrete Length

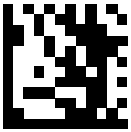
Two Discrete Lengths

Length Within Range

Any Length (Default)

End

Set Lengths for Code 93



Set

One Discrete Length

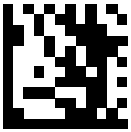
Two Discrete Lengths

Length Within Range

Any Length (Default)

End

Set Lengths for Codabar



Set

One Discrete Length

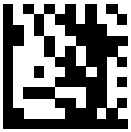
Two Discrete Lengths

Length Within Range

Any Length (Default)

End

Set Lengths for Interleaved 2 of 5



Set

One Discrete Length

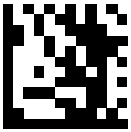
Two Discrete Lengths

Length Within Range

Any Length (Default)

End

Set Lengths for Code 11



Set

One Discrete Length

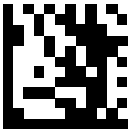
Two Discrete Lengths

Length Within Range

Any Length (Default)

End

Set Lengths for MSI


Set

One Discrete Length

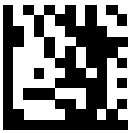
Two Discrete Lengths

Length Within Range

Any Length (Default)

End

Set Lengths for Matrix 2 of 5



Set

One Discrete Length

Two Discrete Lengths

Length Within Range

Any Length (Default)

End

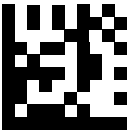
Code Identifiers

Scan the following barcodes to set symbology Identifiers.

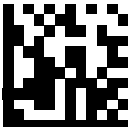
Set

Disable Code ID (Default)

Enable factory standard ID



Enable AIM ID



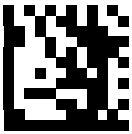
End

Code Identifiers Table

Symbology	Factory Standard	AIM
UPC-A	A	]E
UPC-E	E	]E
EAN 8	FF	]E
EAN 13	F	]E
Code 128	K	]C
Code 39	M	]A
Code 93	L	]G
Code 32	M	]X
Code 11	O	]H
Codabar	N	]F
Plessey	P	]P
MSI / Plessey	a	]M
Interleaved 2 of 5	I	]I
IATA 2 of 5	Z	]R
Matrix 2 of 5	G	]X
Straight 2 of 5	S	]S
Pharmacode	H	]X
RSS 14 (GS1 DATABAR 14)	RS	]e
RSS Expanded (GS1 DataBar Expanded)	RX	]e
RSS Limited (GS1 DataBar Limited)	RL	]e
Component CC-A	m	]e
Component CC-B	n	]e
Component CC-C	i	]e
PDF417	r	]L
Micro PDF417	s	]L
Data Matrix	t	]d
QR	u	]Q
Micro QR	j	]Q
Aztec	e	]z
MaxiCode	v	]U
RSS 14	RS	]e
RSS Expanded	RX	]e

USB Keyboard FN 1 Substitution

This option applies only to the USB HID Keyboard Emulation device.



Set

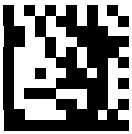
Ctrl+] (Default)

Alt+29(KP)

End

Keyboard Caps Lock State

Scan a barcode below to turn Caps on or off.

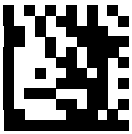


Set

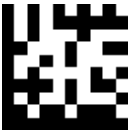
Caps Lock Off (Default)

Caps Lock On

End



Set



Alphabet always upper case

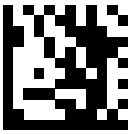
Alphabet always Lower case

Override

End

Function Key Mapping

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



Set

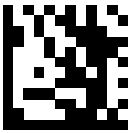
Disable Function Key Mapping (Default)

Enable Function Key Mapping

End

Function Key Extended

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



Set

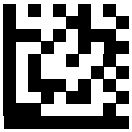
Disable Function Key Extended (Default)

Enable Function Key Extended

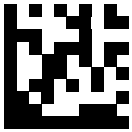
End

ASCII Code

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



Space



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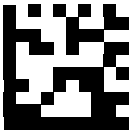
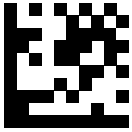


"



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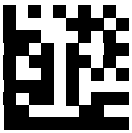

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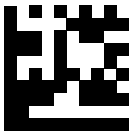

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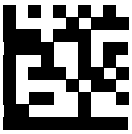

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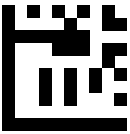

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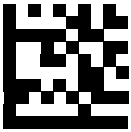

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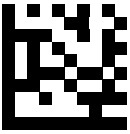

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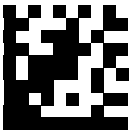

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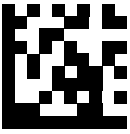

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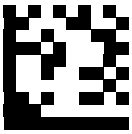

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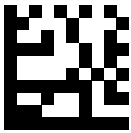

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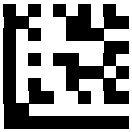

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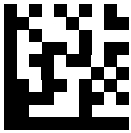

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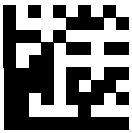

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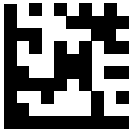

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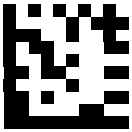

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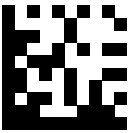

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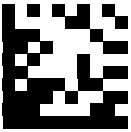

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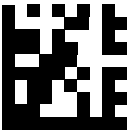

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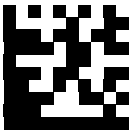

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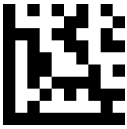

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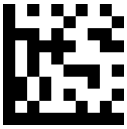

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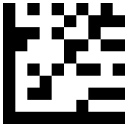

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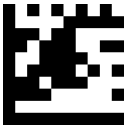

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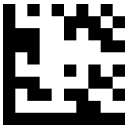

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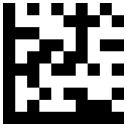

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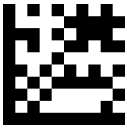

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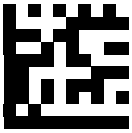

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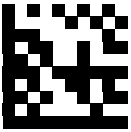

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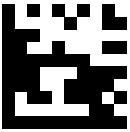

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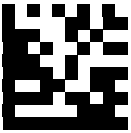

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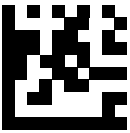

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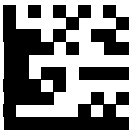

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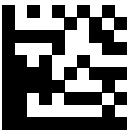

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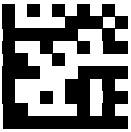

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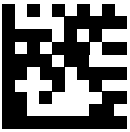

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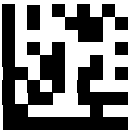
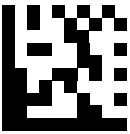
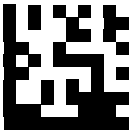


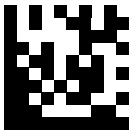
A
(Function Key
Mapping: Ctrl+a)



B
(Function Key
Mapping: Ctrl+b)



C
(Function Key
Mapping: Ctrl+c)



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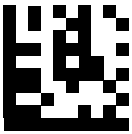
Mapping: Ctrl+d)



E
(Function Key
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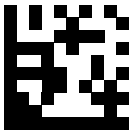

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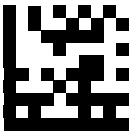

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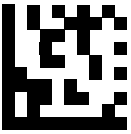
Mapping: Ctrl+g)



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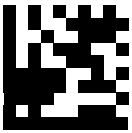

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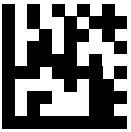

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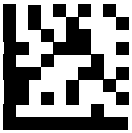

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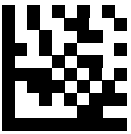

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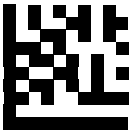

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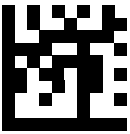

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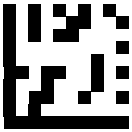

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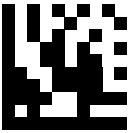

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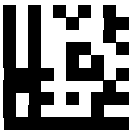

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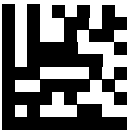

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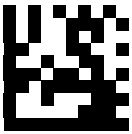

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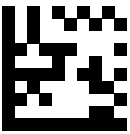

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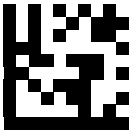

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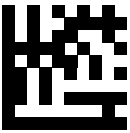

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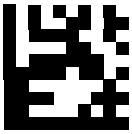

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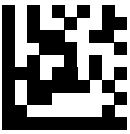

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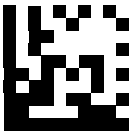

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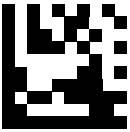

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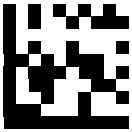

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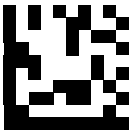

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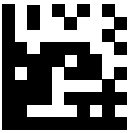

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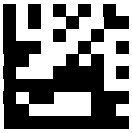

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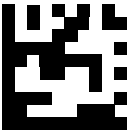

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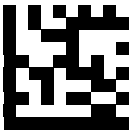

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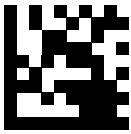

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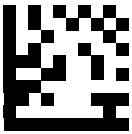

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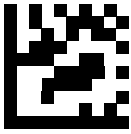

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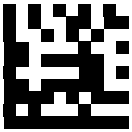

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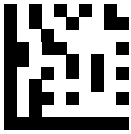

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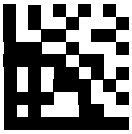

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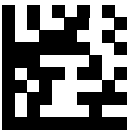

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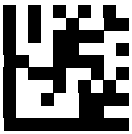

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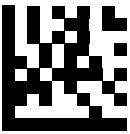

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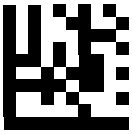

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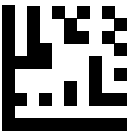

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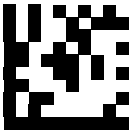

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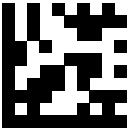

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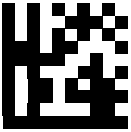

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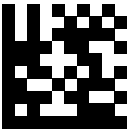

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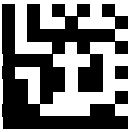

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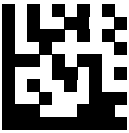

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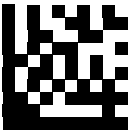

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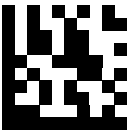


z

Insert

Delete

Home

End

Up arrow

Down arrow

Left arrow

Right arrow

Tab

Backspace

Shift

ESC

Page up

Page down

Ctrl

Alt

F1

F2

F3

F4

F5

F6

F7

F8

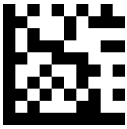
F9

F10

F11

F12

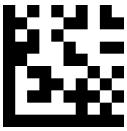
ASCII Character Set for Serial Hosts



SOH

STX

ETX

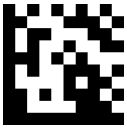


EOT

ENQ

ACK

BELL



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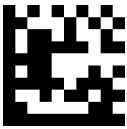
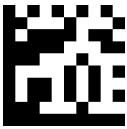

VT

FF

CR

SO


SI

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

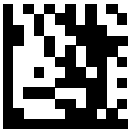
4. On the computer, check Device Manager to see if the computer successfully detects the scanner as “Barcode Scanner USB-COM device.” (The COM port number would vary depending on different hardware environment).

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

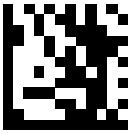
Install the Java RXTXcomm API
In the \RXTXcomm folder, there are four files: rxtxSerial.dll , rxtxParallel.dll, and RXTXcomm.jar. Please do the following steps to install the library.

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

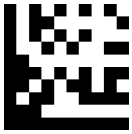
JavaPOS configuration barcodes:

Set

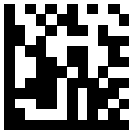


RS-232

JPOS Enable



End



Running the JavaPOS Test utility

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

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How to use JavaPOS driver at your application

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

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE JposEntries PUBLIC "-//JavaPOS//DTD//EN"
                                        "jpos/res/jcl.dtd">
<JposEntries>
<!--Saved by JavaPOS jpos.config/loader (JCL) version 2.2.0 on 2010/3/11    10:16-->

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

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

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


</JposEntries>
```

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

How to use USB scanner with JavaPOS Driver

Configuring the Scanner via barcodes:

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

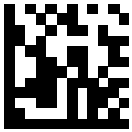
JavaPOS configuration bar codes:

Set

USB Virtual COM Port

JPOS Enable

End



Install the Java RXTXcomm API

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

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

Running the JavaPOS Test utility

Please run the test application to evaluate your installation.

How to Use JavaPOS Driver at your application

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

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE JposEntries PUBLIC "-//JavaPOS//DTD//EN"
                                        "jpos/res/jcl.dtd">
<JposEntries>
<!--Saved by JavaPOS jpos.config/loader (JCL) version 2.2.0 on 2010/3/11    10:16-->

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

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

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

</JposEntries>
```