

# **Programming Guide**

**Advanced 2D Image Scanner**



This Programming Guide is intended for:

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

### Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0	2019-06-03	Initial release
1.1	2019/07/23	Added Data Redundant Checks for UPC-A, EAN-8, Code 39, Code 93, Interleaved 2 of 5, PDF417
1.2	2019/08/29	Added GS1 DataBar Expanded Stacked, GS1 DataBar 14 Stacked
1.3	2020/02/07	Default parameter added
1.4	2020/4/23	Truncate/Return example added
1.5	2020/9/15	Continue scan mode description revised
1.6	2022/3/17	JAN code for Books Separator revised

# Important Notice

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## ***General Handling Precautions***

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

## ***Guidance for Printing***

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

## **Firmware Notice**

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

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# Default Parameters

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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/LF
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	Disable
MSI/Plessey	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

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

# Settings and Programming

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

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

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

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

# User Preferences

---

## ***Show Version***

Scan this barcode to display firmware version.



Read device information

## ***System Settings***

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



Set



Factory default settings



End

### ***Customer's Factory Default***

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



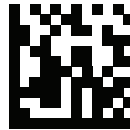
Set



Save customer's factory default



Delete customer's factory default



End



## Scan Mode

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

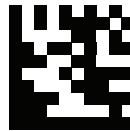
**Trigger Mode:** The scanner becomes inactive as soon as the data is transmitted by pressing the trigger button.

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

**Continue Scan Mode:** scans periodically non-stop.



Set



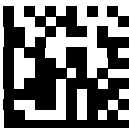
Trigger Mode



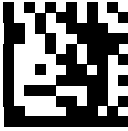
Auto Scan Mode (Default)



Continue Scan Mode



End



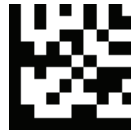
Set



High Resolution Mode



Motion Mode



Phone Mode



End

**Standby Time for Auto Scan, High Resolution, and Motion Modes**

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



Set



1 minute



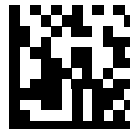
3 minutes



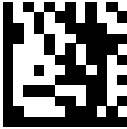
5 minutes (Default)



10 minutes



End



Set



15 minutes



20 minutes



25 minutes



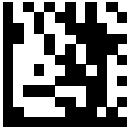
30 minutes



End

**Same Code Delay Time for Auto Scan, High Resolution, and Phone Modes**

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



Set



500 msec (Default)



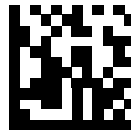
1 sec



1.5 sec



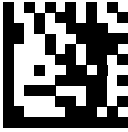
2 sec



End

***Motion Detect Sensibility for Auto scan, Motion, and Hi resolution Modes***

Scan a barcode below to select the motion detect sensibility for the applicable modes.



Set



Level 1 (Low)



Level 2



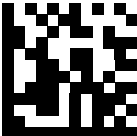
Level 3 (Default)



Level 4



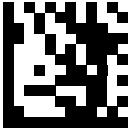
Level 5 (High)



End

***Gain Level for Auto scan, continue, and Hi resolution Modes***

Scan a barcode below to select the gain level for the applicable modes.



Set



Level 1 (Low)



Level 2



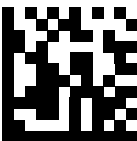
Level 3 (Default)



Level 4



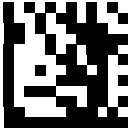
Level 5 (High)



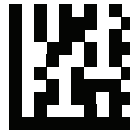
End

### Interface Switch

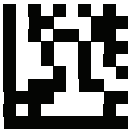
Your 2D Imager supports interfaces such as USB HID, RS232 serial, and USB virtual COM. To switch the interface, simply select the appropriate cable and configure the proper interface by following interface selection.



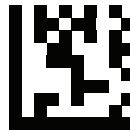
Set



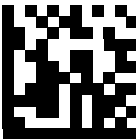
RS-232



USB Keyboard



USB Virtual COM Port  
\*Driver required

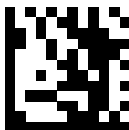


End



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

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



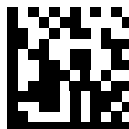
Set



Off



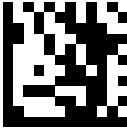
On (Default)



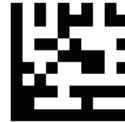
End

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

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



Set



50 msec (Default)



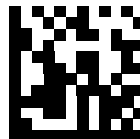
100 msec



150 msec



200 msec



End

## ***Good Read Beep Frequency***

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



Set



Low



Medium (Default)



High



End

### ***Aiming Pattern***

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



Set



Auto (Default)



Always On



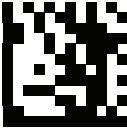
Always Off



End

## ***Illumination***

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



Set



Auto (Default)



Always On



Always Off

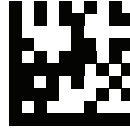


End

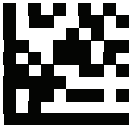
**Terminal Character**



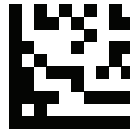
Set



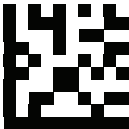
None



CR/LF (Default)



CR



TAB



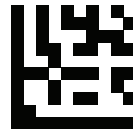
End

## RS232 Baud Rate

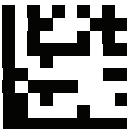
Baud rate is the number of bits of data transmitted per second. Set the imager's baud rate to match the baud rate setting of the host device. Otherwise, data may not reach the host device or may reach it in distorted form.



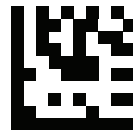
Set



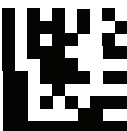
9600 (Default)



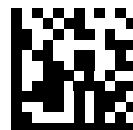
19200



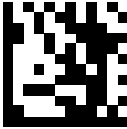
38400



57600



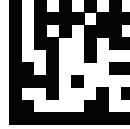
End



Set



End

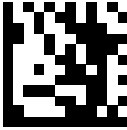


115200



## RS232 Parity Bit

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



Set



None (Default)



Even parity



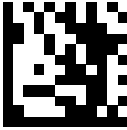
Odd parity



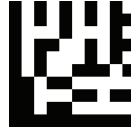
End

### RS232 Stop Bit

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



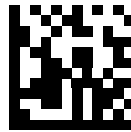
Set



1 Stop Bit (Default)



2 Stop Bit



End

## ***RS232 Data Bit***

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



Set



CS7



CS8 (Default)



End

### ***USB Speed***

Scan a barcode below to set USB speed.



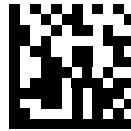
Set



USB 2.0



USB 1.1 (Default)



End

## Country Code

Scan the following settings to change the country code.



Set



US (Default)



Belgium



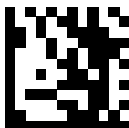
Britain



Denmark



End



Set



France



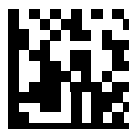
Germany



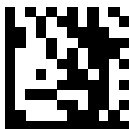
Italy



Norway



End



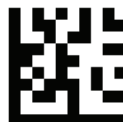
Set



Portugal



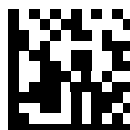
Spain



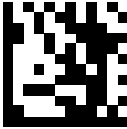
Sweden



Switzerland



End



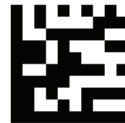
Set



Japan



Hungary



Czech Republic

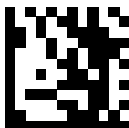


Slovakia



End





Set



Romania



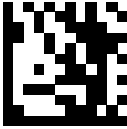
Croatia



Poland



End



Set



International Keyboard mode  
(ALT mode)



Turkey-Q



Turkey-F



End

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

Scan the following settings to change the encoding options.



Set



UTF-8 (Default)



ISO 8859-6



CP1256 (WINDOWS-1256)



End

# Readable Symbologies

---

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

## *All Symbologies*



Set



Enable All



Default



End

**UPC-A**

Set



Enable UPC-A (Default)



Disable UPC-A



End

**UPC-E**



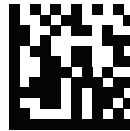
Set



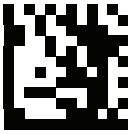
Enable UPC-E



Disable UPC-E (Default)



End

***EAN-8***

Set



Enable EAN 8 (Default)



Disable EAN 8



End

# EAN 13



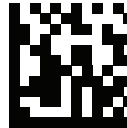
Set



Enable EAN 13 (Default)



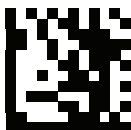
Disable EAN 13



End



## *JAN code for Books*



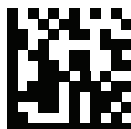
Set



Enable



Disable (Default)



End

**Code 128**



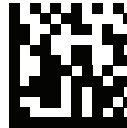
Set



Enable Code 128 (Default)



Disable Code 128



End

**Code 39**

Set



Enable Code 39 (Default)



Disable Code 39



End

**Code 93**



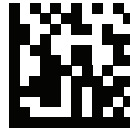
Set



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*



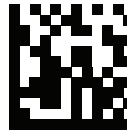
Set



Enable Plessey



Disable Plessey (Default)



End



## *MSI/Plessy*



Set



Enable MSI/Plessy



Disable MSI/Plessy (Default)



End

## *Interleaved 2 of 5*



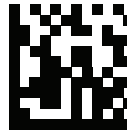
Set



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



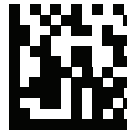
Set



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)***



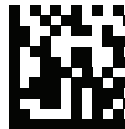
Set



Enable RSS 14 (GS1 DATABAR Expanded)  
(Default)



Disable RSS 14 (GS1 DATABAR Expanded)



End

## *RSS Expanded (GS1 DATABAR Expanded)*



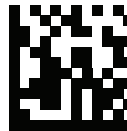
Set



Enable RSS Expanded (GS1 DATABAR Expanded) (Default)



Disable RSS Expanded (GS1 DATABAR Expanded)



End

### *RSS Limited (GS1 DATABAR Limited)*



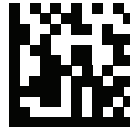
Set



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



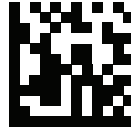
Set



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**



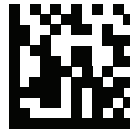
Set



Enable PDF417 (Default)



Disable PDF417



End

**Micro PDF417**

Set



Enable Micro PDF417 (Default)



Disable Micro PDF417



End

## Data Matrix



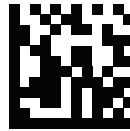
Set



Enable Data Matrix (Default)



Disable Data Matrix



End

## QR Code



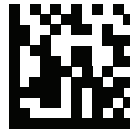
Set



Enable QR Code (Default)



Disable QR Code

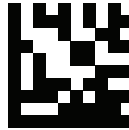


End

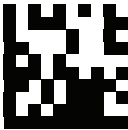
## Micro QR Code



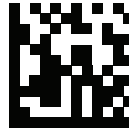
Set



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.



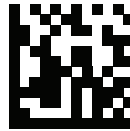
Set



Enable



Disable (Default)



End

**GS1-128 AIM ID**

GS1-128 output AIM ID Setting.



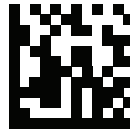
Set



Enable



Disable (Default)



End

## *GS1 DataBar Expanded Stacked*



Set



Enable



Disable (Default)



End

***GS1 DataBar 14 Stacked***



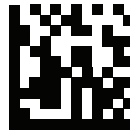
Set



Enable



Disable (Default)



End

## Aztec



Set



Enable Aztec



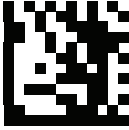
Disable Aztec (Default)



End

**Pharmacode**

(Pharmaceutical Binary Code)



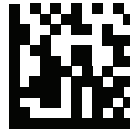
Set



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*



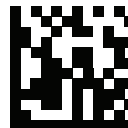
Set



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)

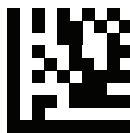
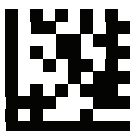


End

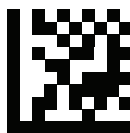


**UPC-A**

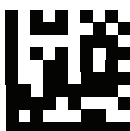
Set

Enable UPC-A Number System digit  
(Default)

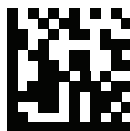
Disable UPC-A Number System digit



Enable UPC-A check digit (Default)



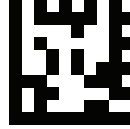
Disable UPC-A check digit



End



Set



Enable conversion of UPC-A to EAN13

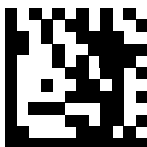


Disable conversion of UPC-A to EAN13  
(Default)



End

## UPC-A Data Redundant Check



Set



Off (Default)



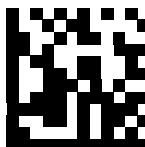
1



2

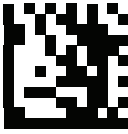


3

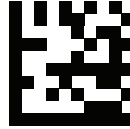


End

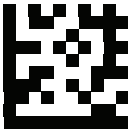
**UPC-E**



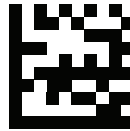
Set



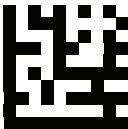
Enable UPC-E Number System digit  
(Default)



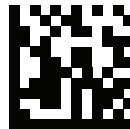
Disable UPC-E Number System digit



Enable UPC-E check digit (Default)



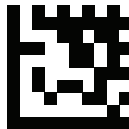
Disable UPC-E check digit



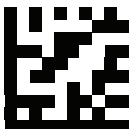
End



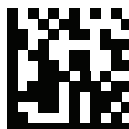
Set



Enable conversion of UPC-E to UPC-A

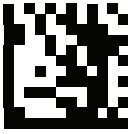


Disable conversion of UPC-E to UPC-A  
(Default)

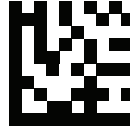


End

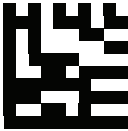
## EAN 8



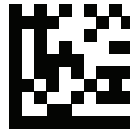
Set



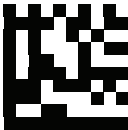
Enable EAN 8 check digit (Default)



Disable EAN 8 check digit



Enable conversion of EAN 8 to EAN 13



Disable conversion of EAN 8 to EAN 13  
(Default)



End

## *EAN 8 Data Redundant Check*



Set



Off (Default)



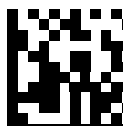
1



2



3

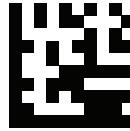


End

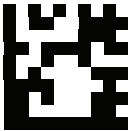
**EAN 13**



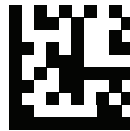
Set



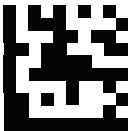
Enable EAN 13 check digit (Default)



Disable EAN 13 check digit



Enable conversion of EAN 13 to ISBN



Disable conversion of EAN 13 to ISBN  
(Default)

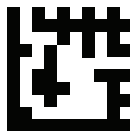


End

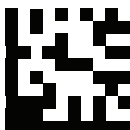




Set



Enable conversion of EAN 13 to ISSN

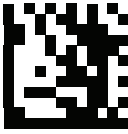


Disable conversion of EAN 13 to ISSN  
(Default)



End

### *EAN 13 Data Redundant Check*



Set



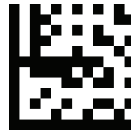
1



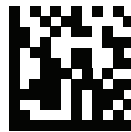
3



Off (Default)



2



End

## JAN code for Books Separator



Set



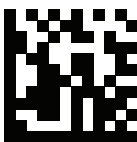
[TAB] key x 2



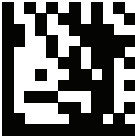
[SPACE] key x 3



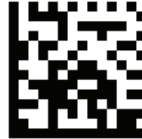
[-] dash char



End



Set

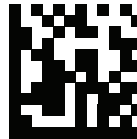


Others char Separator

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



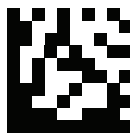
None(Default)



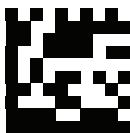
End

**Code 39**

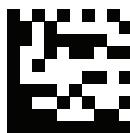
Set



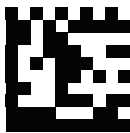
Enable Code 39 full ASCII mode



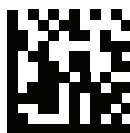
Disable Code 39 full ASCII mode (Default)



Enable Start and Stop characters



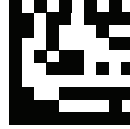
Disable Start and Stop characters (Default)



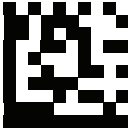
End



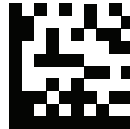
Set



Disable Checksum (Default)



Enable checksum and send check character



Enable checksum and strip check character



End

## Code 39 Data Redundant Check



Set



Off (Default)



1



2



3

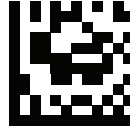


End

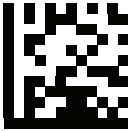
**Codabar**



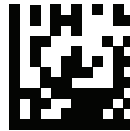
Set



Disable Checksum (Default)



Enable checksum and send check character

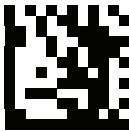


Enable checksum and strip check character



End





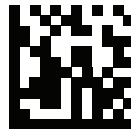
Set



Enable stripping Start and Stop characters  
(Default)

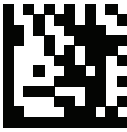


Disable stripping Start and Stop characters



End

### Codabar Redundant Check



Set



Off



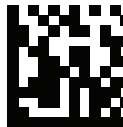
1



2 (Default)



3



End

## Code 93 Data Redundant Check



Set



Off (Default)



1



2

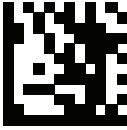


3



End

### Code 128 Redundant Check



Set



Off



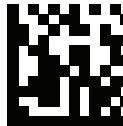
1



2 (Default)



3

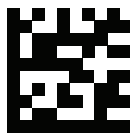


End

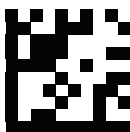
## Interleaved 2 of 5



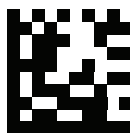
Set



Disable Checksum (Default)



Enable checksum and send check character



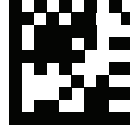
Enable checksum and strip check character



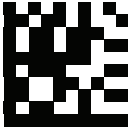
End



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

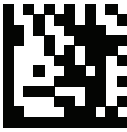


3

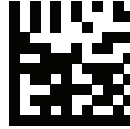


End

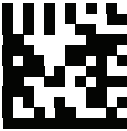
*MSI / Plessey*



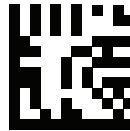
Set



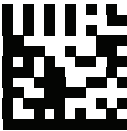
Disable MSI Plessey checksum



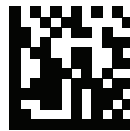
Mod 10 checksum (Default)



Mod 10/10 checksum



Mod 11/10 checksum



End



Set





Strip checksum character(s)



Output checksum character(s) (Default)

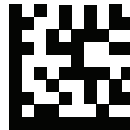


End

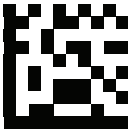
**Code 11**



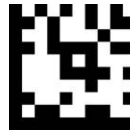
Set



Output checksum character(s)



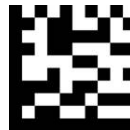
Strip checksum character(s) (Default)



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)

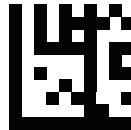


End

QR / Micro QR



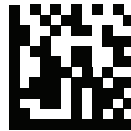
Set



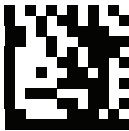
Enable mirror decoding (Default)



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)

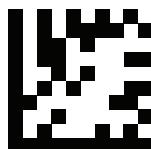


End

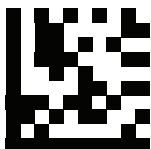
## Aztec



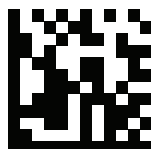
Set



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)



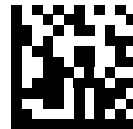
1



2



3



End

**Matrix 2 of 5**

Set



Disable Checksum (Default)

Enable checksum and send check  
characterEnable checksum and strip check  
character

End

*Straight 2 of 5*



Set



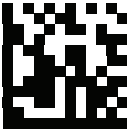
Disable Checksum (Default)



Enable checksum and send check character



Enable checksum and strip check character



End

## Data 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*

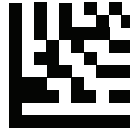
1. Scan Set.
2. Enable barcode type.
3. Scan prefix you would like to add characters within ASCII Code Table. Up to 4 digits can be added.
4. Scan End.

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

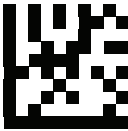
*All Prefix*



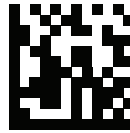
Set



Enable All



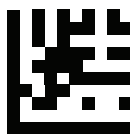
Disable All (Default)



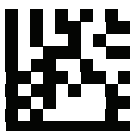
End

*UPC / EAN Prefix*

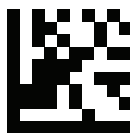
Set



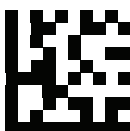
Enable UPC-A



Disable UPC-A



Enable UPC-E



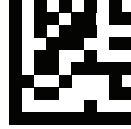
Disable UPC-E



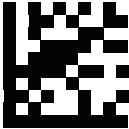
End



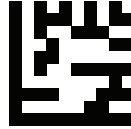
Set



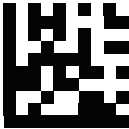
Enable EAN 8



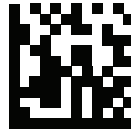
Disable EAN 8



Enable EAN 13



Disable EAN 13



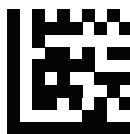
End



## Code 128 Prefix



Set



Enable Code 128



Disable Code 128

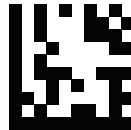


End

*Code 39 Prefix*



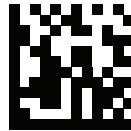
Set



Enable Code 39



Disable Code 39

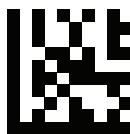


End

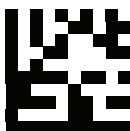
## Code 93 Prefix



Set



Enable Code 93



Disable Code 93



End

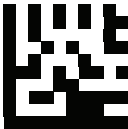
### Code 32 Prefix



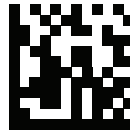
Set



Enable Code 32



Disable Code 32

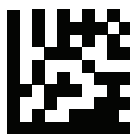


End

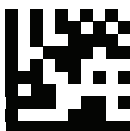
## Code 11 Prefix



Set



Enable Code 11



Disable Code 11

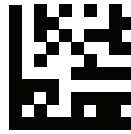


End

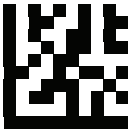
### *Codabar Prefix*



Set



Enable Codabar



Disable Codabar

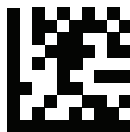


End

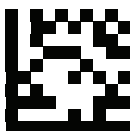
## *Plessey Prefix*



Set



Enable Plessey



Disable Plessey

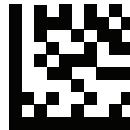


End

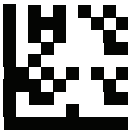
*MSI Prefix*



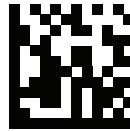
Set



Enable MSI



Disable MSI



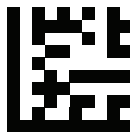
End



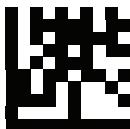
## *Interleaved 2 of 5 Prefix*



Set



Enable Interleaved 2 of 5



Disable Interleaved 2 of 5

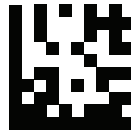


End

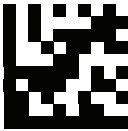
*IATA 2 of 5 Prefix*



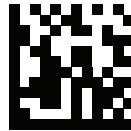
Set



Enable IATA 2 of 5



Disable IATA 2 of 5



End

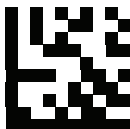
## Matrix 2 of 5 Prefix



Set



Enable Matrix 2 of 5



Disable Matrix 2 of 5

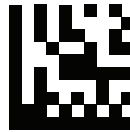


End

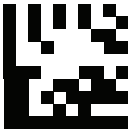
### *Straight 2 of 5 Prefix*



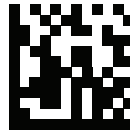
Set



Enable Straight 2 of 5



Disable Straight 2 of 5



End

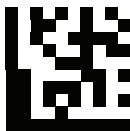
## *RSS 14 Prefix (GS1 DATABAR 14 Prefix)*



Set



Enable RSS 14 (GS1 DATABAR 14 Prefix)



Disable RSS 14 (GS1 DATABAR 14 Prefix)

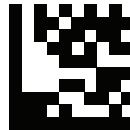


End

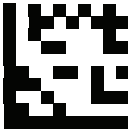
***RSS Expanded Prefix (GS1 DATABAR Expanded Prefix)***



Set



Enable RSS Expanded (GS1 DATABAR Expanded Prefix)



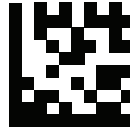
Disable RSS Expanded (GS1 DATABAR Expanded Prefix)



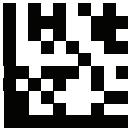
End

***RSS Limited Prefix (GS1 DATABAR Limited Prefix)***

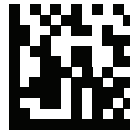
Set



Enable RSS Limited (GS1 DATABAR Limited Prefix)



Disable RSS Limited (GS1 DATABAR Limited Prefix)

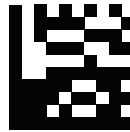


End

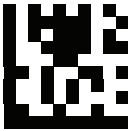
*Component CC-A Prefix*



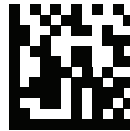
Set



Enable Component CC-A



Disable Component CC-A



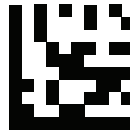
End



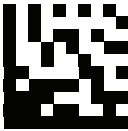
## Component CC-B Prefix



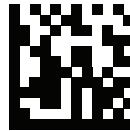
Set



Enable Component CC-B



Disable Component CC-B

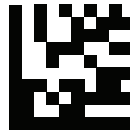


End

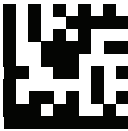
*Component CC-C Prefix*



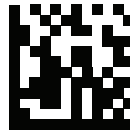
Set



Enable Component CC-C

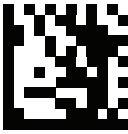


Disable Component CC-C

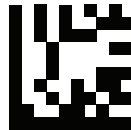


End

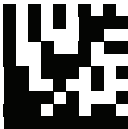
**PDF 417 Prefix**



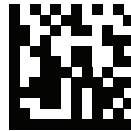
Set



Enable PDF 417



Disable PDF 417

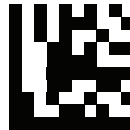


End

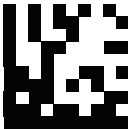
**Micro PDF 417 Prefix**



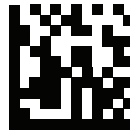
Set



Enable Micro PDF 417



Disable Micro PDF 417

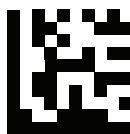


End

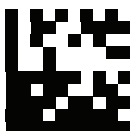
## *Data Matrix Prefix*



Set



Enable Data Matrix



Disable Data Matrix

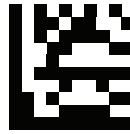


End

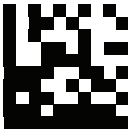
## QR Prefix



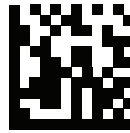
Set



Enable QR Code



Disable QR Code

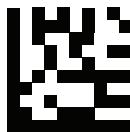


End

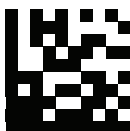
## Micro QR Prefix



Set



Enable Micro QR



Disable Micro QR

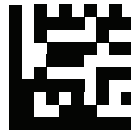


End

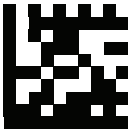
## Aztec Prefix



Set



Enable Aztec



Disable Aztec



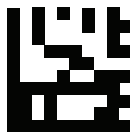
End



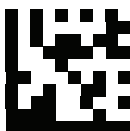
## MaxiCode Prefix



Set



Enable MaxiCode



Disable MaxiCode



End

## Data Editing (Suffix)

---

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

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

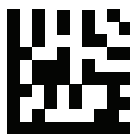
1. Scan Set.
2. Enable barcode type.
3. Scan suffix you would like to add characters within ASCII Code Table. Up to 4 digits can be added.
4. Scan End.

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.

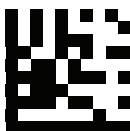
## All Suffix



Set



Enable All



Disable All (Default)

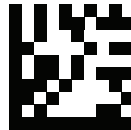


End

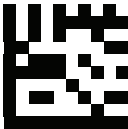
### UPC-A Suffix



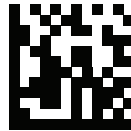
Set



Enable UPC-A



Disable UPC-A

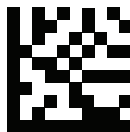


End

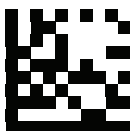
## UPC-E Suffix



Set



Enable UPC-E



Disable UPC-E

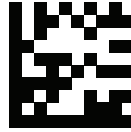


End

## *EAN 8 Suffix*



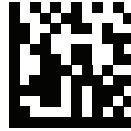
Set



Enable EAN 8



Disable EAN 8

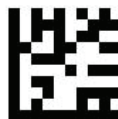


End

## *EAN 13 Suffix*



Set



Enable EAN 13



Disable EAN 13

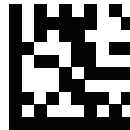


End

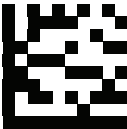
### Code 128 Suffix



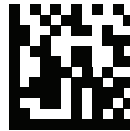
Set



Enable Code 128



Disable Code 128



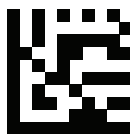
End



## Code 39 Suffix



Set



Enable Code 39



Disable Code 39

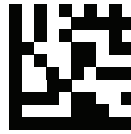


End

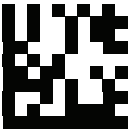
### Code 93 Suffix



Set



Enable Code 93



Disable Code 93

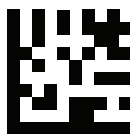


End

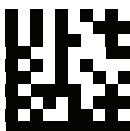
## Code 32 Suffix



Set



Enable Code 32



Disable Code 32

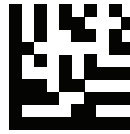


End

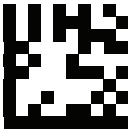
### Code 11 Suffix



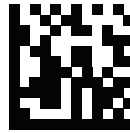
Set



Enable Code 11



Disable Code 11

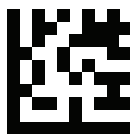


End

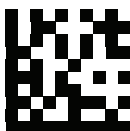
## *Codabar Suffix*



Set



Enable Codabar



Disable Codabar

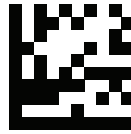


End

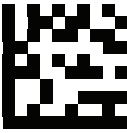
## *Plessey Suffix*



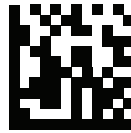
Set



Enable Plessey



Disable Plessey

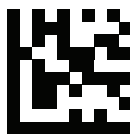


End

## MSI Suffix



Set



Enable MSI



Disable MSI

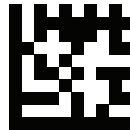


End

### *Interleaved 2 of 5 Suffix*



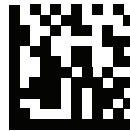
Set



Enable Interleaved 2 of 5



Disable Interleaved 2 of 5



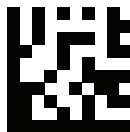
End



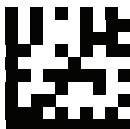
## *IATA 2 of 5 Suffix*



Set



Enable IATA 2 of 5



Disable IATA 2 of 5

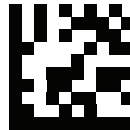


End

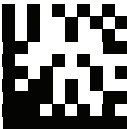
**Matrix 2 of 5 Suffix**



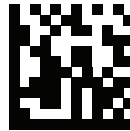
Set



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

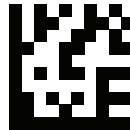


End

***RSS 14 Suffix (GS1 DATABAR 14 Suffix)***



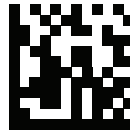
Set



Enable RSS 14 (GS1 DATABAR 14 Suffix)



Disable RSS 14 (GS1 DATABAR 14 Suffix)

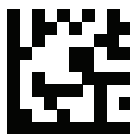


End

## *RSS Expanded Suffix (GS1 DATABAR Expanded Suffix)*



Set



Enable RSS Expanded (GS1 DATABAR  
Expanded Suffix)



Disable RSS Expanded (GS1 DATABAR  
Expanded Suffix)



End

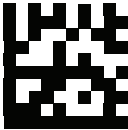
*RSS Limited Suffix (GS1 DATABAR Limited Suffix)*



Set



Enable RSS Limited (GS1 DATABAR Limited Suffix)



Disable RSS Limited (GS1 DATABAR Limited Suffix)

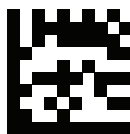


End

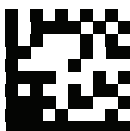
## Component CC-A Suffix



Set



Enable Component CC-A



Disable Component CC-A

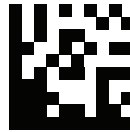


End

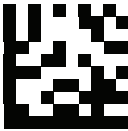
*Component CC-B Suffix*



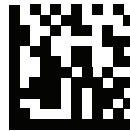
Set



Enable Component CC-B



Disable Component CC-B



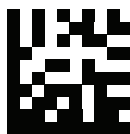
End



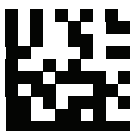
## Component CC-C Suffix



Set



Enable Component CC-C



Disable Component CC-C

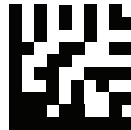


End

*PDF-417 Suffix*



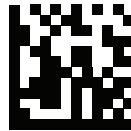
Set



Enable PDF417



Disable PDF417

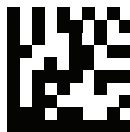


End

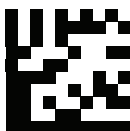
## Micro PDF-417 Suffix



Set



Enable Micro PDF417



Disable Micro PDF417

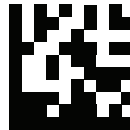


End

***Data Matrix Suffix***



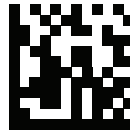
Set



Data Matrix Enable



Data Matrix Disable

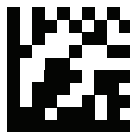


End

## QR Code Suffix



Set



QR Code Enable



QR Code Disable

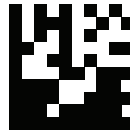


End

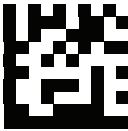
*Micro QR Suffix*



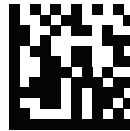
Set



Micro QR Enable



Micro QR Disable

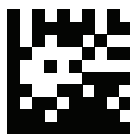


End

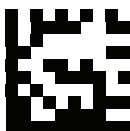
## Aztec Suffix



Set



Aztec Enable



Aztec Disable

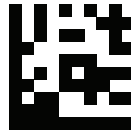


End

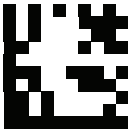
### MaxiCode Suffix



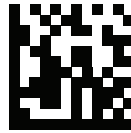
Set



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

## ***Truncate/Return 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.

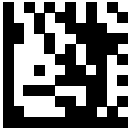
For example:

To return the “78” from “078441068255,” scan “Set”, “Return middle” (Return middle of the symbology), “0”, “2”, “0”, “2”, “End”.

To truncate the “78” from “078441068255,” scan “Set”, “Truncate middle” (Truncate middle of the symbology), “0”, “2”, “0”, “2”, “End”.

To disable Truncate/Return, scan “Set”, “Disable” (Disable of the symbology), and “End”.

### *Set All Symbolologies Truncate/Return*



Set



Return leftmost



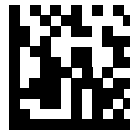
Truncate leftmost



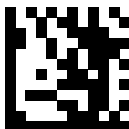
Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle

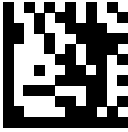


Disable All (Default)



End

*Set UPC-A Truncate/Return*



Set



Return leftmost



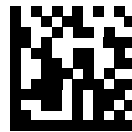
Truncate leftmost



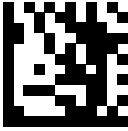
Return rightmost



Truncate rightmost



End



Set



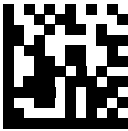
Return middle



Truncate middle



Disable (Default)



End

*Set UPC-E Truncate/Return*



Set



Return leftmost



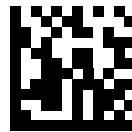
Truncate leftmost



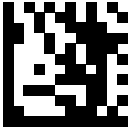
Return rightmost



Truncate rightmost



End



Set



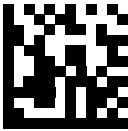
Return middle



Truncate middle

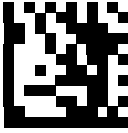


Disable (Default)



End

*Set EAN-8 Truncate/Return*



Set



Return leftmost



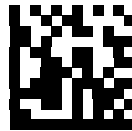
Truncate leftmost



Return rightmost

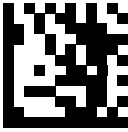


Truncate rightmost



End





Set



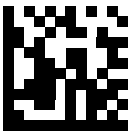
Return middle



Truncate middle



Disable (Default)



End

*Set EAN 13 Truncate/Return*



Set



Return leftmost



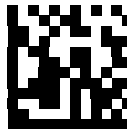
Truncate leftmost



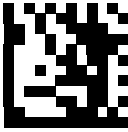
Return rightmost



Truncate rightmost



End



Set



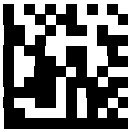
Return middle



Truncate middle

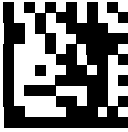


Disable (Default)



End

*Set Code 128 Truncate/Return*



Set



Return leftmost



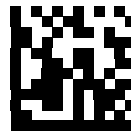
Truncate leftmost



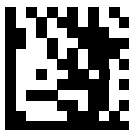
Return rightmost



Truncate rightmost



End



Set



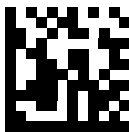
Return middle



Truncate middle



Disable (Default)



End

*Set Code 39 Truncate/Return*



Set



Return leftmost



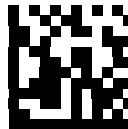
Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

*Set Code 93 Truncate/Return*



Set



Return leftmost



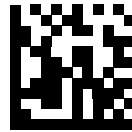
Truncate leftmost



Return rightmost



Truncate rightmost



End





Set



Return middle



Truncate middle



Disable (Default)



End

*Set Code 32 Truncate/Return*



Set



Return leftmost



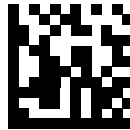
Truncate leftmost



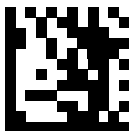
Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

*Set Code 11 Truncate/Return*



Set



Return leftmost



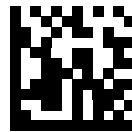
Truncate leftmost



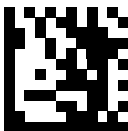
Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle

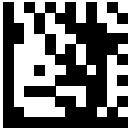


Disable (Default)



End

*Set Codabar Truncate/Return*



Set



Return leftmost



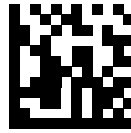
Truncate leftmost



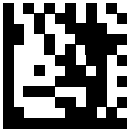
Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle

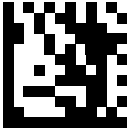


Disable (Default)



End

*Set Plessey Truncate/Return*



Set



Return leftmost



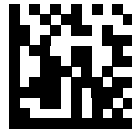
Truncate leftmost



Return rightmost

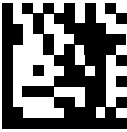


Truncate rightmost



End





Set



Return middle



Truncate middle



Disable (Default)



End

***Set MSI (Modified Plessey) Truncate/Return***



Set



Return leftmost



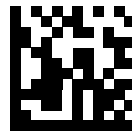
Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle

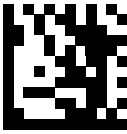


Disable (Default)



End

*Set Interleaved 2 of 5 Truncate/Return*



Set



Return leftmost



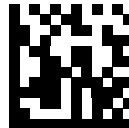
Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

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

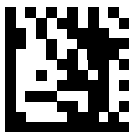


Enable



Disable (default)

## Set IATA 2 of 5 Truncate/Return



Set



Return leftmost



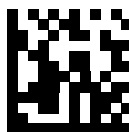
Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End



## Set Matrix 2 of 5 Truncate/Return



Set



Return leftmost



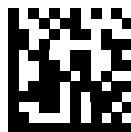
Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



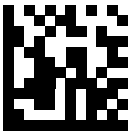
Return middle



Truncate middle

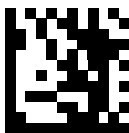


Disable (Default)



End

## Set Straight 2 of 5 Truncate/Return



Set



Return leftmost



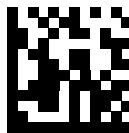
Truncate leftmost



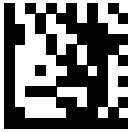
Return rightmost



Truncate rightmost



End



Set



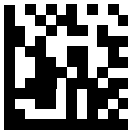
Return middle



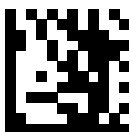
Truncate middle



Disable (Default)



End

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

Set



Return leftmost



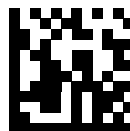
Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



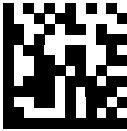
Return middle



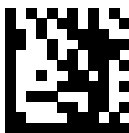
Truncate middle



Disable (Default)



End

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

Set



Return leftmost



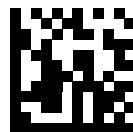
Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



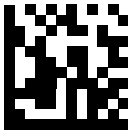
Return middle



Truncate middle

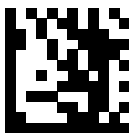


Disable (Default)



End



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

Set



Return leftmost



Truncate leftmost



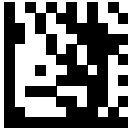
Return rightmost



Truncate rightmost



End



Set



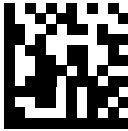
Return middle



Truncate middle



Disable (Default)



End

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



Set



Return leftmost



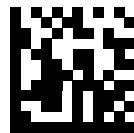
Truncate leftmost



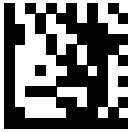
Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

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



Set



Return leftmost



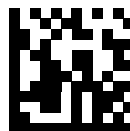
Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



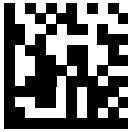
Return middle



Truncate middle

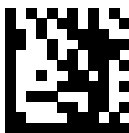


Disable (Default)



End

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



Set



Return leftmost



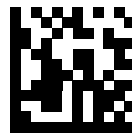
Truncate leftmost



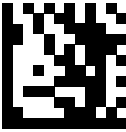
Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



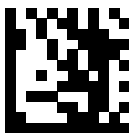
Disable (Default)



End



## Set PDF 417 Truncate/Return



Set



Return leftmost



Truncate leftmost



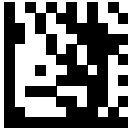
Return rightmost



Truncate rightmost



End



Set



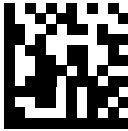
Return middle



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 rightmost



Return rightmost



Truncate leftmost



End



Set



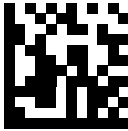
Return middle



Truncate middle



Disable (Default)



End

## Set QR Truncate/Return



Set



Return leftmost



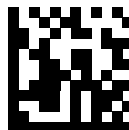
Truncate leftmost



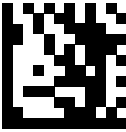
Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End



## Set Micro QR Truncate/Return



Set



Return leftmost



Truncate leftmost



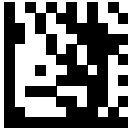
Return rightmost



Truncate rightmost



End



Set



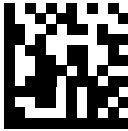
Return middle



Truncate middle



Disable (Default)



End

## *Set Aztec Truncate/Return*



Set



Return leftmost



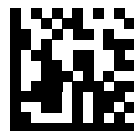
Truncate leftmost



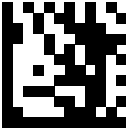
Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

## Set MaxiCode Truncate/Return



Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



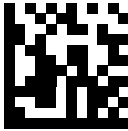
Return middle



Truncate middle



Disable (Default)



End

# Code Settings

---

## *Set Lengths for Codes*

- One Discrete Length

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

Example 1:

To decode Interleaved 2 of 5 symbols with 8 characters:

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

Example 2:

To decode Interleaved 2 of 5 symbols with 12 characters:

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

- Two Discrete Lengths

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

Example:

To decode Code 128 symbols containing either 8 or 14 characters

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

- Length Within Range

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

Example:

To decode Codabar symbols containing between 7 and 8 characters,

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

- Any Length

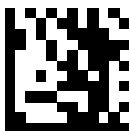
Select this option to decode the symbol containing any number of characters within the digital scanner's capability.

Example:

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



## Set Lengths for Code 128



Set



One Discrete Length



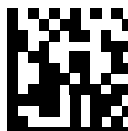
Two Discrete Lengths



Length Within Range

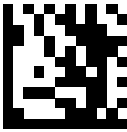


Any Length (Default)



End

### Set Lengths for Code 39



Set



One Discrete Length



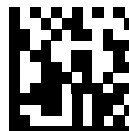
Two Discrete Lengths



Length Within Range

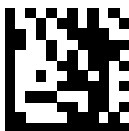


Any Length (Default)



End

## Set Lengths for Code 93



Set



One Discrete Length



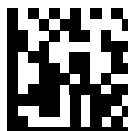
Two Discrete Lengths



Length Within Range



Any Length (Default)



End

### *Set Lengths for Codabar*



Set



One Discrete Length



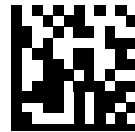
Two Discrete Lengths



Length Within Range

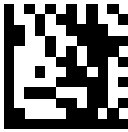


Any Length (Default)



End

## Set Lengths for Interleaved 2 of 5



Set



One Discrete Length



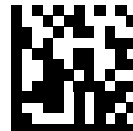
Two Discrete Lengths



Length Within Range

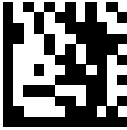


Any Length (Default)



End

### Set Lengths for Code 11



Set



One Discrete Length



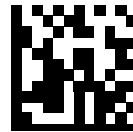
Two Discrete Lengths



Length Within Range

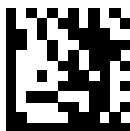


Any Length (Default)

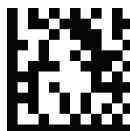


End

## Set Lengths for MSI



Set



One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length (Default)



End

### Set Lengths for Matrix 2 of 5



Set



One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length (Default)



End



## Code Identifiers

Scan the following barcodes to set symbology Identifiers.



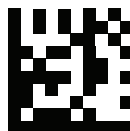
Set



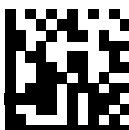
Disable Code ID (Default)



Enable factory standard ID



Enable AIM ID



End

**Code Identifiers Table**

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

## Keyboard Caps Lock State

Scan a barcode below to turn Caps on or off.



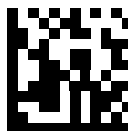
Set



Caps Lock Off (Default)



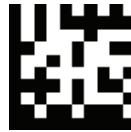
Caps Lock On



End



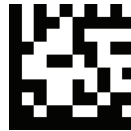
Set



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].



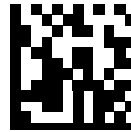
Set



Disable Function Key Extended (Default)



Enable Function Key Extended



End

## ASCII Code

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



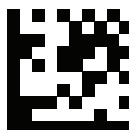
Space



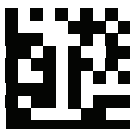
!



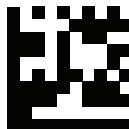
"



#



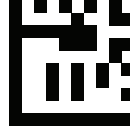
\$



%



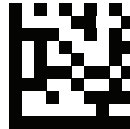
&



,



(



)

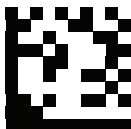


\*



+

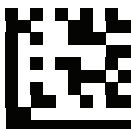




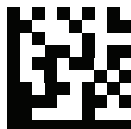
/



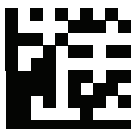
-



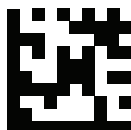
.



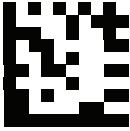
/



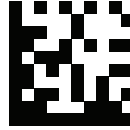
:



;



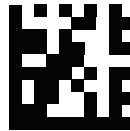
<



=



>



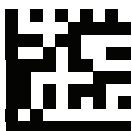
?



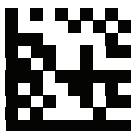
@



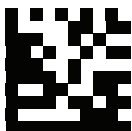
Enter



0



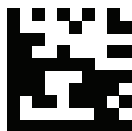
2



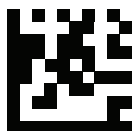
4



1



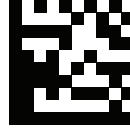
3



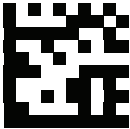
5



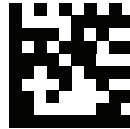
6



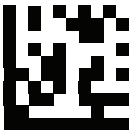
7



8



9



A

(Function Key  
Mapping: Ctrl+a)



B

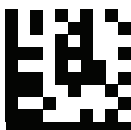
(Function Key  
Mapping: Ctrl+b)



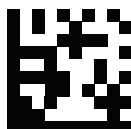
C  
(Function Key  
Mapping: Ctrl+c)



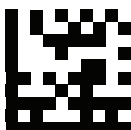
D  
(Function Key  
Mapping: Ctrl+d)



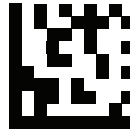
E  
(Function Key  
Mapping: Ctrl+e)



F  
(Function Key  
Mapping: Ctrl+f)

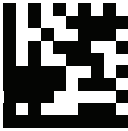


G  
(Function Key  
Mapping: Ctrl+g)



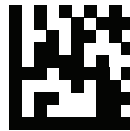
H

(Function Key Mapping: Ctrl+h)



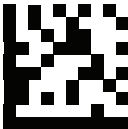
I

(Function Key Mapping: Ctrl+i)



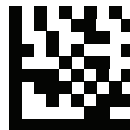
J

(Function Key Mapping: Ctrl+j)



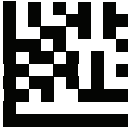
K

(Function Key Mapping: Ctrl+k)

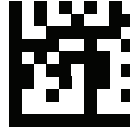


L

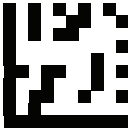
(Function Key Mapping: Ctrl+l)



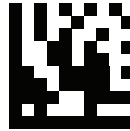
M  
(Function Key  
Mapping: Ctrl+m)



N  
(Function Key  
Mapping: Ctrl+n)



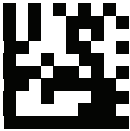
O  
(Function Key  
Mapping: Ctrl+o)



P  
(Function Key  
Mapping: Ctrl+p)

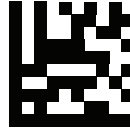


Q  
(Function Key  
Mapping: Ctrl+q)



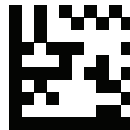
S

(Function Key  
Mapping: Ctrl+s)



R

(Function Key  
Mapping: Ctrl+r)



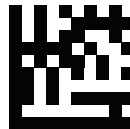
T

(Function Key  
Mapping: Ctrl+t)



U

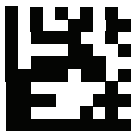
(Function Key  
Mapping: Ctrl+u)



V

(Function Key  
Mapping: Ctrl+v)





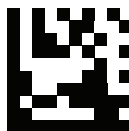
W  
(Function Key  
Mapping: Ctrl+w)



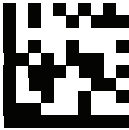
X  
(Function Key  
Mapping: Ctrl+x)



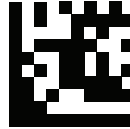
Y  
(Function Key  
Mapping: Ctrl+y)



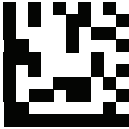
Z  
(Function Key  
Mapping: Ctrl+z)



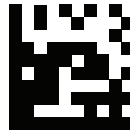
a



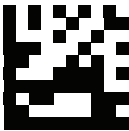
b



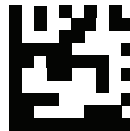
c



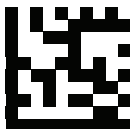
d



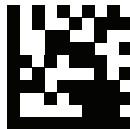
e



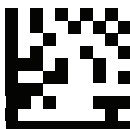
f



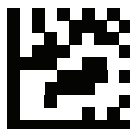
g



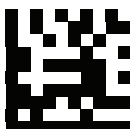
h



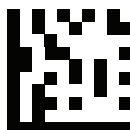
i



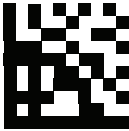
j



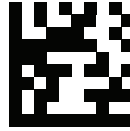
k



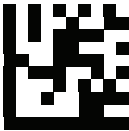
l



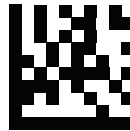
m



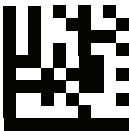
n



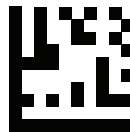
o



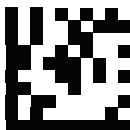
p



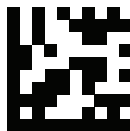
q



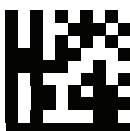
r



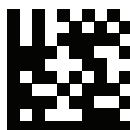
s



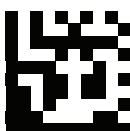
t



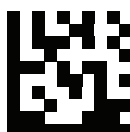
u



v



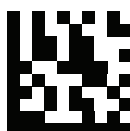
w



x



y



z



Insert



Delete



Home



End



Up arrow



Down arrow



Left arrow



Right arrow



Tab



Backspace



Shift



ESC



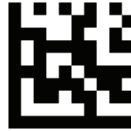
Page up



Page down



F1



F2



F3



F4





F5



F6



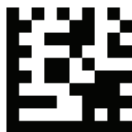
F7



F8



F9



F10



F11

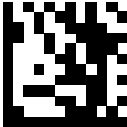


F12

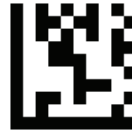
# USB Virtual COM Driver Installing

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

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



Set



USB Virtual COM Port  
\*Driver required



End

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



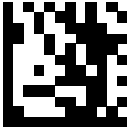
# JavaPOS Setting

---

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

## *JavaPOS*

Scan the following barcodes to enable or disable JavaPOS.



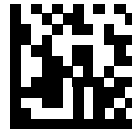
Set



JPOS Enable



JPOS Disable (Default)



End

## **JavaPOS Version**

Our JavaPOS driver now is compatible with JavaPOS1.7.

## **Install the Java2 Runtime Environment**

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

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

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

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

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

Install the Java RXTXcomm API

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

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

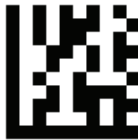
***Use barcodes to configure the scanner***

JavaPOS configuration barcodes:

Set



RS-232



JPOS Enable



End



## Running the JavaPOS Test utility

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

## How to use JavaPOS driver at your application

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

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

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

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

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

</JposEntries>
```

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

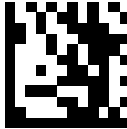
## *How to use USB scanner with JavaPOS Driver*

Configuring the Scanner via barcodes:

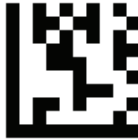
- Scan the barcodes in the sequence below to configure the scanner to usb-serial mode.

**JavaPOS configuration bar codes:**

Set



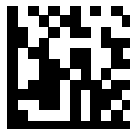
USB Virtual COM Port



JPOS Enable



End





## ***Install the Java RTXcomm API***

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

1. Copy rtxSerial.dll and rtxParallel.dll to C:\Windows\system32
2. Copy RTXcomm.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>
```