



2D Imaging Barcode Scanner **Programming Guide**

Advanced 2D Image Scanner

Programming

This Programming Guide is intended for:

- **2D Image Handheld Scanner: Z-3272 Plus**

Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0	2018/9/12	Initial release
1.1	2021/9/2	Added FNC1 GS Substitution Values
1.2	2021/9/11	Added new commands for FW210909
1.3	2021/10/19	Update according to FW211022 change: Customization Gain Level /Mobile phone support for auto scan mode default values changed; deleted Standby Time for Auto Scan Mode

Important Notice

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General Handling Precautions

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

Guidance for Printing

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

Firmware Notice

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

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Using the Scanner

Beeper Indication

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.



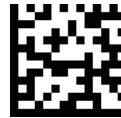
Read device information

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: This 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.



Set



Trigger Mode (Default)



Auto Scan Mode



End

Customization Gain Level

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



Set



Level 1 (Low)



Level 2



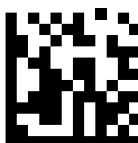
Level 3



Level 4



Level 5



End



Set



Level 6



Level 7



Level 8 (Default)



Level 9



Level 10 (High)



End

Same Code Delay Time for Auto Scan Mode

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



Set



500 msec (Default)



1 sec



1.5 sec



2 sec



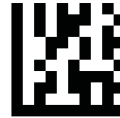
End

Interface Switch

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



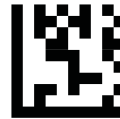
Set



RS-232



USB Keyboard



USB Virtual COM Port
*Driver required



End

Mobile Phone Scan Support for Auto Scan Mode

Enable or disable mobile phone scan support..



Set



Enable (Default)



Disable



End

Power Up Beep On/ Off

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



Set



On (Default)



Off



End

Good Read Beep On/ Off

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



Set



On (Default)



Off



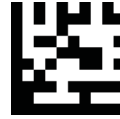
End

Good Read Beep Length

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



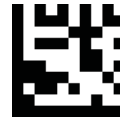
Set



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



On (Default)



Always On



Off



End

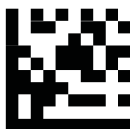
Terminal Character



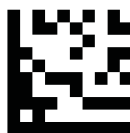
Set



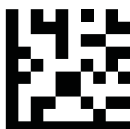
None



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



CR
(HID Default)



TAB



LF



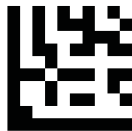
End

RS232 Baud Rate

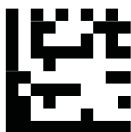
Baud rate is the number of bits of data transmitted per second. Set the imager's baud rate to match the baud rate setting of the host device. Otherwise, data may not reach the host device or may reach it in distorted form.



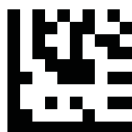
Set



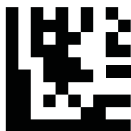
9600 (Default)



19200



38400



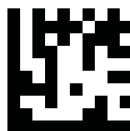
57600



End



Set



115200



230400



End

RS232 Parity Bit

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



Set



None (Default)



Even parity



Odd parity



End

RS232 Stop Bit

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



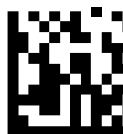
Set



1 Stop Bit (Default)



2 Stop Bit



End

RS232 Data Bit

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



Set



CS7



CS8 (Default)



End

USB Speed

Scan a barcode below to set USB speed.



Set



USB 2.0



USB 1.1 (Default)



End

USB Output Speed for USB 1.1

Scan a barcode below to set USB 1.1 output speed.



Set



1 (Fastest)



2



3



4



5



End



Set



6



7



8



9



10 (Default)



End



Set



11



12



13



14



15



16 (Slowest)



End

Country Code

Scann the following settings to change the country code.



Set



US (Default)



Belgium



Britain



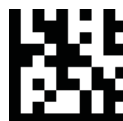
Denmark



End



Set



France



Germany



Italy



Norway



End



Set



Portugal



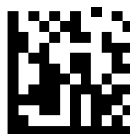
Spain



Sweden



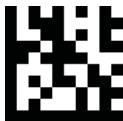
Switzerland



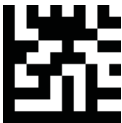
End



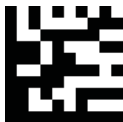
Set



Japan



Hungary



Czech Republic



Slovakia



End



Set



Romania



Croatia



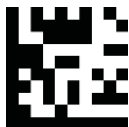
Poland



Finland



United Kingdom



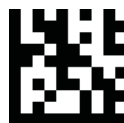
Russia



End



Set



International Keyboard mode
(ALT mode)



Turkey-Q



Turkey-F



End

Persian/Arabic Language Encoding Support

Scann the following settings to change the encoding options.



Set



UTF-8 (Default)



ISO 8859-6



CP1256 (WINDOWS-1256)



End

Readable Symbolologies

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

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 (Default)



Disable RSS 14



End

RSS Expanded (GS1 DATABAR Expanded)

Set



Enable RSS Expanded (Default)



Disable RSS Expanded



End

RSS Limited (GS1 DATABAR Limited)

Set



Enable RSS Limited (Default)



Disable RSS Limited



End

GS1 DataBar Expanded Stacked



Set



Enable



Disable (Default)



End

GS1 DataBar 14 Stacked

Set



Enable



Disable (Default)



End

Component CC-A

Set



Enable Component CC-A



Disable Component CC-A (Default)



End

Component CC-B



Set



Enable Component CC-B



Disable Component CC-B (Default)



End

Component CC-C

Set



Enable Component CC-C



Disable Component CC-C (Default)



End

PDF417

Set



Enable PDF417 (Default)



Disable PDF417



End

Micro PDF417

Set



Enable Micro PDF417 (Default)



Disable Micro PDF417



End

Data Matrix



Set



Enable Data Matrix (Default)



Disable Data Matrix



End

QR Code



Set



Enable QR Code (Default)



Disable QR Code



End

Micro QR Code



Set



Enable Micro QR Code (Default)



Disable Micro QR Code



End

Aztec



Set



Enable Aztec



Disable Aztec (Default)



End

MaxiCode



Set



Enable MaxiCode



Disable MaxiCode (Default)



End

JAPAN POST



Set



Enable



Disable(Default)



Check Digit Enable(Default)



Check Digit Disable



END

Symbology Features

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

UPC / EAN



Set



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



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



End

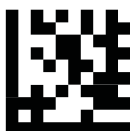
UPC-A



Set



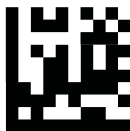
Enable UPC-A Number System digit
(Default)



Disable UPC-A Number System digit



Enable UPC-A check digit (Default)



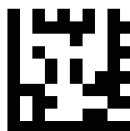
Disable UPC-A check digit



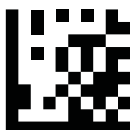
End



Set



Enable conversion of UPC-A to EAN13

Disable conversion of UPC-A to EAN13
(Default)

Enable Leading Character



Disable Leading Character (Default)



End



Set



Enable UPC-A clear leading zero



Disable UPC-A clear leading zero (Default)



End

UPC-A Data Redundant Check



Set



Off (Default)



1



2



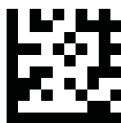
3



End

UPC-E

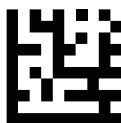
Set

Enable UPC-E Number System digit
(Default)

Disable UPC-E Number System digit



Enable UPC-E check digit (Default)



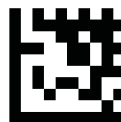
Disable UPC-E check digit



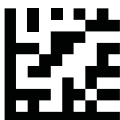
End



Set



Enable conversion of UPC-E to UPC-A



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



Enable UPC-E clear leading zero



Disable UPC-E clear leading zero
(Default)

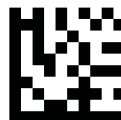


End

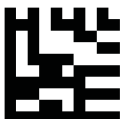
EAN 8



Set



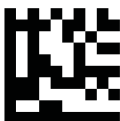
Enable EAN 8 check digit (Default)



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

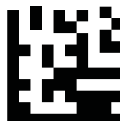


End

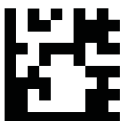
EAN 13



Set



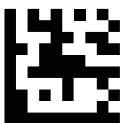
Enable EAN 13 check digit (Default)



Disable EAN 13 check digit



Enable conversion of EAN 13 to ISBN



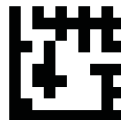
Disable conversion of EAN 13 to ISBN
(Default)



End



Set



Enable conversion of EAN 13 to ISSN



Disable conversion of EAN 13 to ISSN
(Default)



End



Set



EAN 13 data redundant check = off



EAN 13 data redundant check = 1
(Default)



EAN 13 data redundant check = 2



EAN 13 data redundant check = 3



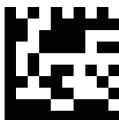
End

Code 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



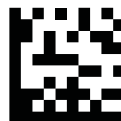
Set



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

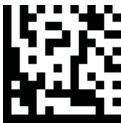
Disable stripping Start and Stop characters
(Default)

End

Codabar Data Redundant Check



Set



Off



1



2 (Default)



3



End

Code 93 Data Redundant Check



Set



Off (Default)



1



2



3



End

Code 128 Data Redundant Check



Set



Off



1



2 (Default)



3

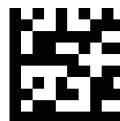


End

Interleaved 2 of 5



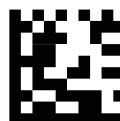
Set



Disable Checksum (Default)



Enable checksum and send check
character



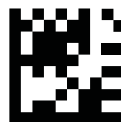
Enable checksum and strip check
character



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



Output checksum character(s) (Default)



Strip checksum character(s)

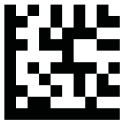


End

Code 11



Set



Output checksum character(s)



Strip checksum character(s) (Default)



End



Set



Disable checksum checking



Enable 1-digit checksum checking



Enable 2-digit checksum checking
(Default)



End

Data Matrix



Set



Enable mirror decoding (Default)



Disable mirror decoding



End



Set



Enable rectangular Data Matrix decoding



Disable rectangular Data Matrix decoding
(Default)



End

QR / Micro QR



Set



Enable mirror decoding (Default)



Disable mirror decoding



End



Set



UTF8 conversion for word only



Universal UTF8 conversion (Default)



End

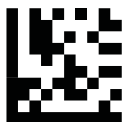
Note: Please install QR_UTF8_Conversion executable file before using this function.

Aztec

Set



Enable mirror decoding (Default)



Disable mirror decoding



End

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

Japanese Language Encoding Support



Set



Enable



Disable (Default)



End

JAN code for Books Separator

Set



[TAB] key x 2



[SPACE] key x 3



Others char Separator

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



End



Set



None (Default)



End

Data Editing (Prefix)

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

Prefix Set Up Flow

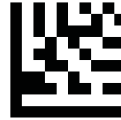
1. Scan Set.
2. Enable barcode type.
3. Scan prefix you would like to add characters within ASCII Table. Up to 4 digits can be added.
4. Scan End.

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

All Prefix



Set



Enable All



Disable All (Default)

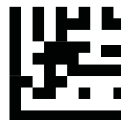


End

UPC / EAN Prefix



Set



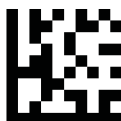
Enable UPC-A



Disable UPC-A



Enable UPC-E



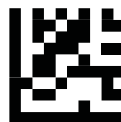
Disable UPC-E



End



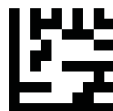
Set



Enable EAN 8



Disable EAN 8



Enable EAN 13



Disable EAN 13



End

Code 128 Prefix



Set



Enable Code 128



Disable Code 128



End

Code 39 Prefix



Set



Enable Code 39



Disable Code 39



End

Code 93 Prefix

Set



Enable Code 93



Disable Code 93



End

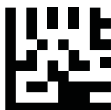
Code 32 Prefix



Set



Enable Code 32



Disable Code 32



End

Code 11 Prefix

Set



Enable Code 11



Disable Code 11



End

Codabar Prefix



Set



Enable Codabar



Disable Codabar



End

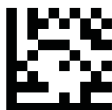
Plessey Prefix



Set



Enable Plessey



Disable Plessey



End

MSI Prefix



Set



Enable MSI



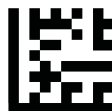
Disable MSI



End

Interleaved 2 of 5Prefix

Set



Enable Interleaved 2 of 5



Disable Interleaved 2 of 5



End

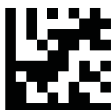
IATA 2 of 5 Prefix



Set



Enable IATA 2 of 5



Disable IATA 2 of 5



End

Matrix 2 of 5 Prefix



Set



Enable Matrix 2 of 5



Disable Matrix 2 of 5



End

Straight 2 of 5 Prefix



Set



Enable Straight 2 of 5



Disable Straight 2 of 5



End

RSS 14 Prefix

Set



Enable RSS 14



Disable RSS 14



End

RSS Expanded Prefix



Set



Enable RSS Expanded



Disable RSS Expanded



End

RSS Limited Prefix

Set



Enable RSS Limited



Disable RSS Limited



End

Component CC-A Prefix



Set



Enable Component CC-A



Disable Component CC-A



End

Component CC-B Prefix

Set



Enable Component CC-B



Disable Component CC-B



End

Component CC-C Prefix



Set



Enable Component CC-C



Disable Component CC-C



End

PDF 417 Prefix

Set



Enable PDF 417



Disable PDF 417



End

Micro PDF 417 Prefix



Set



Enable Micro PDF 417



Disable Micro PDF 417



End

Data Matrix Prefix

Set



Enable Data Matrix



Disable Data Matrix



End

QR Prefix



Set



Enable QR Code



Disable QR Code



End

Micro QR Prefix

Set



Enable Micro QR



Disable Micro QR



End

Aztec Prefix



Set



Enable Aztec



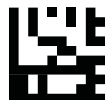
Disable Aztec



End

MaxiCode Prefix

Set



Enable MaxiCode



Disable MaxiCode



End

Data Editing (Suffix)

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

Suffix Set Up Flow

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

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

All Suffix



Set



Enable All



Disable All (Default)



End

UPC-A Suffix



Set



Enable UPC-A



Disable UPC-A



End

UPC-E Suffix

Set



Enable UPC-E



Disable UPC-E



End

EAN 8 Suffix



Set



Enable EAN 8



Disable EAN 8



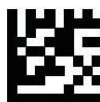
End

EAN 13 Suffix

Set



Enable EAN 13



Disable EAN 13



End

Code 128 Suffix



Set



Enable Code 128



Disable Code 128



End

Code 39 Suffix

Set



Enable Code 39



Disable Code 39



End

Code 93 Suffix



Set



Enable Code 93



Disable Code 93



End

Code 32 Suffix

Set



Enable Code 32



Disable Code 32



End

Code 11 Suffix



Set



Enable Code 11



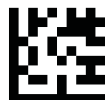
Disable Code 11



End

Codabar Suffix

Set



Enable Codabar



Disable Codabar



End

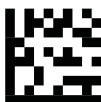
Plessey Suffix



Set



Enable Plessey



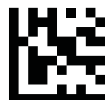
Disable Plessey



End

MSI Suffix

Set



Enable MSI



Disable MSI



End

Interleaved 2 of 5 Suffix



Set



Enable Interleaved 2 of 5



Disable Interleaved 2 of 5



End

IATA 2 of 5 Suffix

Set



Enable IATA 2 of 5



Disable IATA 2 of 5



End

Matrix 2 of 5 Suffix



Set



Enable Matrix 2 of 5



Disable Matrix 2 of 5



End

Straight 2 of 5 Suffix

Set



Enable Straight 2 of 5



Disable Straight 2 of 5



End

RSS 14 Suffix



Set



Enable RSS 14



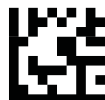
Disable RSS 14



End

RSS Expanded Suffix

Set



Enable RSS Expanded



Disable RSS Expanded



End

RSS Limited Suffix



Set



Enable RSS Limited



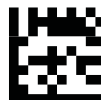
Disable RSS Limited



End

Component CC-A Suffix

Set



Enable Component CC-A



Disable Component CC-A



End

Component CC-B Suffix



Set



Enable Component CC-B



Disable Component CC-B



End

Component CC-C Suffix

Set



Enable Component CC-C



Disable Component CC-C



End

PDF-417 Suffix

Set



Enable PDF417



Disable PDF417



End

Micro PDF-417 Suffix

Set



Enable Micro PDF417



Disable Micro PDF417



End

Data Matrix Suffix



Set



Data Matrix Enable



Data Matrix Disable



End

QR Code Suffix



Set



QR Code Enable



QR Code Disable



End

Micro QR Suffix



Set



Micro QR Enable



Micro QR Disable



End

Aztec Suffix



Set



Aztec Enable



Aztec Disable



End

MaxiCode Suffix



Set



MaxiCode Enable



MaxiCode Disable



End

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

Set Up Flow

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

Set All Symbolologies Truncate/Return



Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable All (Default)



End

Set UPC-A Truncate/Return



Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set UPC-E Truncate/Return



Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set EAN-8 Truncate/Return

Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set EAN 13 Truncate/Return

Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set Code 128 Truncate/Return

Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set Code 39 Truncate/Return

Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set Code 93 Truncate/Return

Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set Code 32 Truncate/Return

Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set Code 11 Truncate/Return

Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set Codabar Truncate/Return



Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set Plessey Truncate/Return



Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



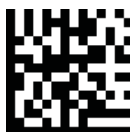
Disable (Default)



End

Set MSI (Modified 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 leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set QR Truncate/Return



Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set Micro QR Truncate/Return



Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set Aztec Truncate/Return



Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Set MaxiCode Truncate/Return



Set



Return leftmost



Truncate leftmost



Return rightmost



Truncate rightmost



End



Set



Return middle



Truncate middle



Disable (Default)



End

Code Settings

Set Lengths for Codes

- One Discrete Length

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

Example 1:

To decode Interleaved 2 of 5 symbols with 8 characters:

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

Example 2:

To decode Interleaved 2 of 5 symbols with 12 characters:

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

- Two Discrete Lengths

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

Example:

To decode Code 128 symbols containing either 8 or 14 characters

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

- Length Within Range

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

Example:

To decode Codabar symbols containing between 7 and 8 characters,

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

- Any Length

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

Example:

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

Set Lengths for Code 128



Set



One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length (Default)



End

Set Lengths for Code 39



Set



One Discrete Length



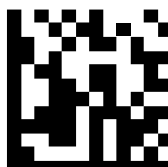
Two Discrete Lengths



Length Within Range

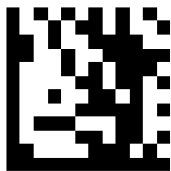


Any Length (Default)



End

Set Lengths for Code 93



Set



One Discrete Length



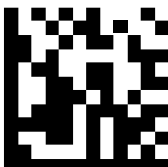
Two Discrete Lengths



Length Within Range



Any Length (Default)



End

Set Lengths for Codabar



Set



One Discrete Length



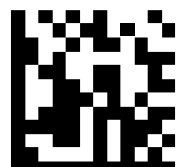
Two Discrete Lengths



Length Within Range

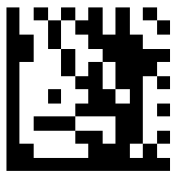


Any Length (Default)



End

Set Lengths for Interleaved 2 of 5



Set



One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length (Default)

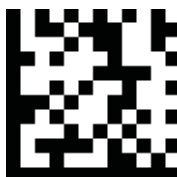


End

Set Lengths for Code 11



Set



One Discrete Length



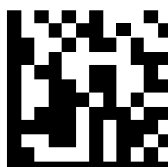
Two Discrete Lengths



Length Within Range

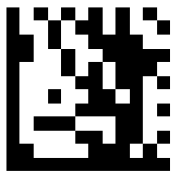


Any Length (Default)



End

Set Lengths for MSI



Set



One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length (Default)



End

Set Lengths for Matrix 2 of 5



Set



One Discrete Length



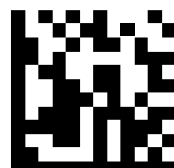
Two Discrete Lengths



Length Within Range



Any Length (Default)



End

Code Identifiers

Scan the following barcodes to set symbology Identifiers.



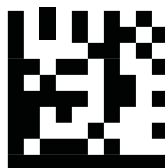
Set



Disable Code ID (Default)



Enable factory standard ID



Enable AIM ID



End

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

Code Identifiers Table

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

Keyboard Caps Lock State

Scan a barcode below to turn Caps on or off.



Set



Caps Lock Off (Default)



Caps Lock On



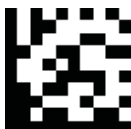
End



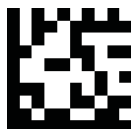
Set



Alphabet always upper case



Alphabet always Lower case



Override

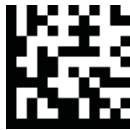


End

FNC1 GS Substitution Values



Set



“Ctrl+J” (Default)



“Alt+29(KP)”
(nmvs)



End

Function Key Mapping

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



Set



Disable Function Key Mapping (Default)



Enable Function Key Mapping



End

Function Key Extended

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



Set



Disable Function Key Extended (Default)



Enable Function Key Extended



End

ASCII Code

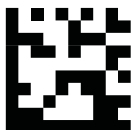
For parameters requiring specific numeric values, scan the appropriately numbered barcode(s).



Space



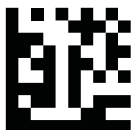
!



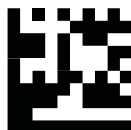
\"



#



\$



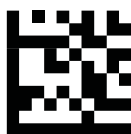
%



&



!



(



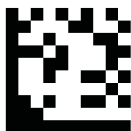
)



*



+



,



.



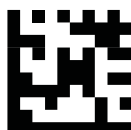
;



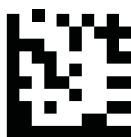
-



/



;



<



>



@



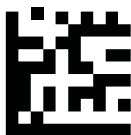
=



?



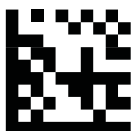
Enter



0



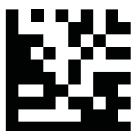
1



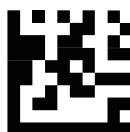
2



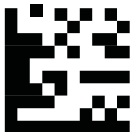
3



4



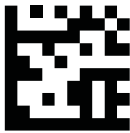
5



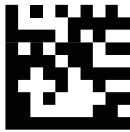
6



7



8

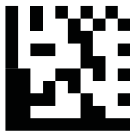


9



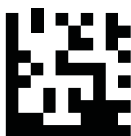
A

(Function Key
Mapping: Ctrl+a)



B

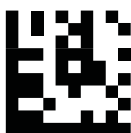
(Function Key
Mapping: Ctrl+b)



C
(Function Key
Mapping: Ctrl+c)



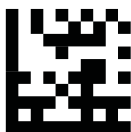
D
(Function Key
Mapping: Ctrl+d)



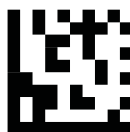
E
(Function Key
Mapping: Ctrl+e)



F
(Function Key
Mapping: Ctrl+f)

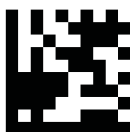


G
(Function Key
Mapping: Ctrl+g)



H

(Function Key
Mapping: Ctrl+h)



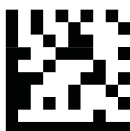
I

(Function Key
Mapping: Ctrl+i)



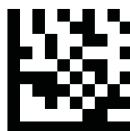
J

(Function Key
Mapping: Ctrl+j)



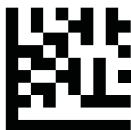
K

(Function Key
Mapping: Ctrl+k)



L

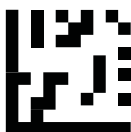
(Function Key
Mapping: Ctrl+l)



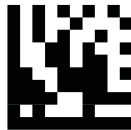
M
(Function Key
Mapping: Ctrl+m)



N
(Function Key
Mapping: Ctrl+n)



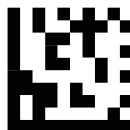
O
(Function Key
Mapping: Ctrl+o)



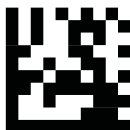
P
(Function Key
Mapping: Ctrl+p)



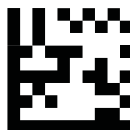
Q
(Function Key
Mapping: Ctrl+q)



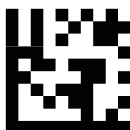
R
(Function Key
Mapping: Ctrl+r)



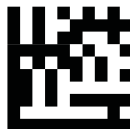
S
(Function Key
Mapping: Ctrl+s)



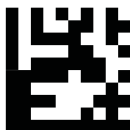
T
(Function Key
Mapping: Ctrl+t)



U
(Function Key
Mapping: Ctrl+u)



V
(Function Key
Mapping: Ctrl+v)



W

(Function Key
Mapping: Ctrl+w)



X

(Function Key
Mapping: Ctrl+x)



Y

(Function Key
Mapping: Ctrl+y)

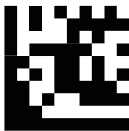


Z

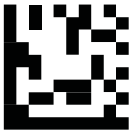
(Function Key
Mapping: Ctrl+z)



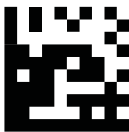
a



b



c



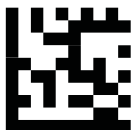
d



e



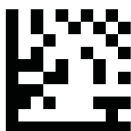
f



g



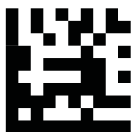
h



i



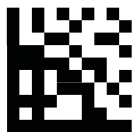
j



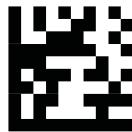
k



l



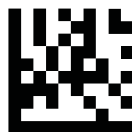
m



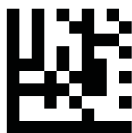
n



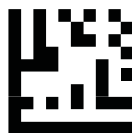
o



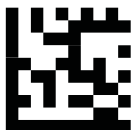
p



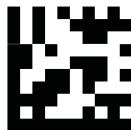
q



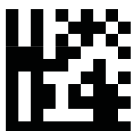
r



s



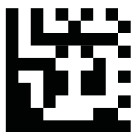
t



u



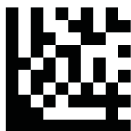
v



w



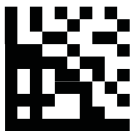
x



y



z



Insert



Delete



Home



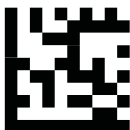
End



Up arrow



Down arrow



Left arrow



Right arrow



Tab



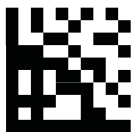
Backspace



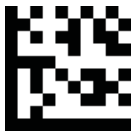
Shift



ESC



Page up



Page down



Ctrl



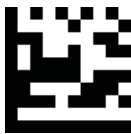
Alt



SOH



ETX



F1



F3



F2



F4



F5



F6



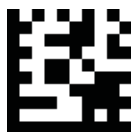
F7



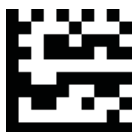
F8



F9



F10



F11



F12

USB Virtual COM Driver Installing

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

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

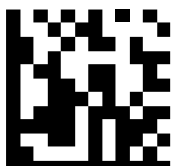


Set



USB Virtual COM Port

*Driver required



End

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



JavaPOS Setting

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

JavaPOS

Scan the following barcodes to enable or disable JavaPOS.



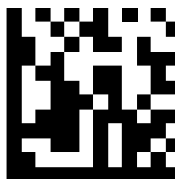
Set



JPOS Enable



JPOS Disable (Default)



End

JavaPOS Version

Our JavaPOS driver now is compatible with JavaPOS1.7.

Install the Java2 Runtime Environment

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

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

Install the Service Object and JavaPOS files

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

How to use RS232 scanner with JavaPOS Driver

Install the Java RXTXcomm API

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

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

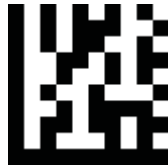
Use barcodes to configure the scanner

JavaPOS configuration barcodes:

Set



RS-232



JPOS Enable



End



Running the JavaPOS Test utility

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

How to use JavaPOS driver at your application

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

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

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

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

        <!--Other non JavaPOS required property (mostly vendor properties and bus specific
properties i.e. RS232 )-->
        <prop name="deviceType" type="String" value="2D"/>
        <prop name="deviceBus" type="String" value="RS232"/>
        <prop name="baudRate" type="String" value="115200"/>
        <prop name="parity" type="String" value="None"/>
        <prop name="portName" type="String" value=" COM1"/>
        <prop name="flowControl" type="String" value="None"/>
        <prop name="stopBits" type="String" value="1"/>
        <prop name="dataBits" type="String" value="8"/>
    </JposEntry>

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

<JposEntries>

</JposEntries>
```

Note: The default baud rate : 2D scanner =115200

How to use USB scanner with JavaPOS Driver

Configuring the Scanner via barcodes:

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

JavaPOS configuration bar codes:

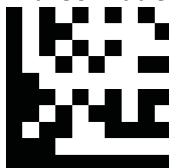
Set



USB Virtual COM Port



JPOS Enable



End



Install the Java RXTXcomm API

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

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

Running the JavaPOS Test utility

Please run the test application to evaluate your installation.

How to Use JavaPOS Driver at your application

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

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

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

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

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

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

<JposEntries>

</JposEntries>
```