

Programming Guide

This Programming Guide is intended for:

- 2D Image Engine: Z-5212 Plus
- Fixed Industrial Scanner: ZX-1010

Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0	2024/03/07	Initial release

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For CE-countries

This scanner is in conformity with CE standards. Please note that an approved, CE-marked power supply unit should be used in order to maintain CE conformance.

Guidance for Printing

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

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System Settings

Default Parameters

The table provides an overview of the default configurations for each symbology. The default settings will be restored whenever the "Reset" programming label is scanned and the scanner is in programming mode.

Symbologies	Default
Data Matrix	Enable
QR	Enable
Micro QR	Enable
EAN-13	Enable
EAN-8	Enable
UPC-A	Enable
UPC-E	Enable
Code 128	Enable
Code 39	Enable
Code 32	Disable
Code 93	Enable
Codabar	Enable
Plessey	Disable
MSI-Plessey	Enable
Interleaved 2 of 5	Enable
Code 11	Disable
Pharmacode	Disable
GS1 DataBar 14	Enable
GS1 DataBar Expanded	Enable
GS1 DataBar Limited	Enable
PDF417	Enable
Micro PDF417	Enable
Aztec	Disable
MaxiCode	Disable
DotCode	Disable

Scan Mode



Enter Programming Mode

Level Trigger Mode

A trigger pull activates a decode session. The decode session continues until a barcode is decoded or you release the trigger.

Sense Mode (Image Change)

The engine activates a decode session every time it detects a barcode presented to it. The decode session continues until a barcode is decoded or the decode session timeout expires.

Continuous Mode

The engine automatically starts one decode session after another. To suspend/resume barcode reading, simply press the trigger.



Level Trigger Mode **



Sense Mode (Image Change)













Sense Mode (Image Change) Sensitivity

This parameter sets the sensitivity of image change trigger. You can select an appropriate level of sensitivity that fits your application environment. This feature is only applicable to the Sense mode.





Medium Sensitivity **



High Sensitivity



Aiming



Enter Programming Mode

Trigger

The scanner projects an aiming pattern only during image decoding.

Always On

Aiming pattern is constantly on after the scanner is powered on.

Off

Aiming pattern is off all the time.





ingge



Off



Illumination



Illumination Mode

Trigger: Illumination LEDs are turned on during image decoding.

Always On: Illumination LEDs keep on after the scanner is powered on.

Off: Illumination LEDs are off all the time.

Fade Up: Illumination LEDs are dimly lit when in standby mode and gradually increase their brightness during image decode.

















Illumination Level

This parameter sets the brightness of illumination.tt





Intermediate brightness



Maximum brightness **



Beep Sound



Enter Programming Mode

Good Read Beep

Scanning the Off barcode can turn off the beep that indicates successful decode; scanning the On barcode can turn it on.





Off





Good Read Beep Frequency



Extra Low - 800 Hz









Decode Settings



Enter Programming Mode

Decode Area

Whole Area Decoding: The scanner attempts to decode barcode(s) within its field of view, from the center to the periphery, and transmits the barcode that has been first decoded.

Aiming Barcode Decoding: The scanner only decodes the barcode aimed squarely by the aiming pattern. For those using a crosshair aiming pattern, only the barcode aimed by the center of crosshair will be decoded.



Whole Area Decoding **



Aiming Barcode Decoding





Specific Area Decoding 75%

This option allows the scanner to narrow its field of view to make sure it reads only those barcodes intended by the user.



100 %







Specific Area Decoding 50%



100 %







Specific Area Decoding



100 %









Decode Redundancy

Disable: All code types just read one time.

2 Times: All code types must be successfully read two times before being decoded.

3 Times: All code types must be successfully read three times before being decoded.











Decoding Timeout

This parameter sets the maximum time decode session continues during a scan attempt. It is programmable in 1ms increments from 1 ms to 3,600,000 ms. When it is set to 0, the timeout is infinite. The default setting is 5,000 ms.

Example: Set the decoding timeout to 1,000 ms:

- 1.Scan the Enter Programming Mode barcode
- 2.Scan the **Decoding Timeout** barcode
- 3.Scan the numeric barcodes "1" barcode from Numeric Barcodes in Appendix A.
- 4.Scan the numeric barcodes "0" barcode from Numeric Barcodes in Appendix A.
- 5.Scan the numeric barcodes "0" barcode from Numeric Barcodes in Appendix A.
- 6.Scan the numeric barcodes "0" barcode from Numeric Barcodes in Appendix Scan the Exit Programming Mode barcode



Decoding Timeout (ms)





Timeout between Decodes (Same Barcode)

Timeout between Decodes (Same Barcode) can avoid undesired rereading of same barcode in a given period of time. This feature is only applicable to the Sense and Continuous modes. It is programmable in 1 ms increments from 1ms to 5000 ms. The default setting is 3,00 ms.

< **1000 ms** : Do not allow the scanner to re-read same barcode before the timeout between decodes (same barcode) expires.

 \geq **1000 ms** : Allow the scanner to re-read same barcode after the timeout between decodes (same barcode) expires..

Example: Set the Timeout between Decodes to250 ms:

- 1.Scan the Enter Programming Mode barcode
- 2.Scan the Timeout between Decodes barcode
- 3.Scan the numeric barcodes "2" barcode from Numeric Barcodes in Appendix A.
- 4.Scan the numeric barcodes "5" barcode from Numeric Barcodes in Appendix A.
- 5.Scan the numeric barcodes "0" barcode from Numeric Barcodes in Appendix A. Scan the Exit Programming Mode barcode



Timeout between Decodes (ms)





Time To Standby Mode

This parameter sets the time to enter standby mode when the scanner is idle. The default setting is 10 seconds.



Disable



3 Seconds



10 Seconds





5 Seconds



15 Seconds



Interface Settings

USB HID Keyboard



Enter Programming Mode

USB HID Keyboard Enable

The transmission will be simulated as USB keyboard input. The Host receives keystrokes on the virtual keyboard. It works on a Plug and Play basis and no driver is required.







HID Function Key Mapping

ASCII values under 32 are normally sent as control-key sequences. When this parameter is enabled, the keys in bold are sent in place of the standard key mapping (see Appendix C).

Control-Key Mode:

Control Characters (0x00 - 0x1F) are sent as control-key sequences.

Alt + Unicode Mode:

Control Characters (0x00 - 0x1F) are sent as unicode code sequences







Alt + Unicode Mode





USB Country Keyboard Types

Scan the barcode corresponding to the keyboard type. For a USB host, this setting applies only to the USB Keyboard (HID) device.











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Enter Programming Mode

























PROGRAMMING GUIDE



Enter Programming Mode

























Country Code Page

Code pages define the mapping of character codes to characters, select the code page with which the barcodes were created by scanning the appropriate barcode.



Traditional Chinese (Big 5) , Code Page / Excel ; Notepad



Traditional Chinese (Big 5), Microsoft Office Word







Korean , Code Page / Excel ; Notepad









SHIFT-JIS , Code Page / Excel ; Notepad




















West European Latin



Central and East European Latin









Intercharacter Delay

An intercharacter delay of up to 10000 ms may be placed after transmission of a particular character of scanned.





ASCII 00~127 Characters



Specified Character





USB CDC

If scanner is connected to the USB port on a host device, the USB CDC feature allows the host device to receive data in the way as a serial port does. A driver is needed when using this feature.

Example: Set the intercharacter delay 100 ms for ASCII 00~127.

1.Scan the Enter Programming Mode barcode

2.Scan the ASCII 00~127 Characters barcode

3.Scan the numeric barcodes "1" barcode from Numeric Barcodes in Appendix A.

4.Scan the numeric barcodes "0" barcode from Numeric Barcodes in Appendix A.

5.Scan the numeric barcodes "0" barcode from Numeric Barcodes in Appendix A.

6.Scan the Exit Programming Mode barcode

Example: Set the intercharacter delay 1500 ms for TAB.

1.Scan the Enter Programming Mode barcode

2.Scan the Specified Character barcode

3.Scan the **TAB** barcode from ASCII Code Barcodes in Appendix C.

4.Scan the numeric barcodes "1" barcode from Numeric Barcodes in Appendix A.

5.Scan the numeric barcodes "5" barcode from Numeric Barcodes in Appendix A.

6.Scan the numeric barcodes "0" barcode from Numeric Barcodes in Appendix A.

7.Scan the numeric barcodes "0" barcode from Numeric Barcodes in Appendix A.

8.Scan the Exit Programming Mode barcode

Example: Disable intercharacter delay for codes.

1.Scan the Enter Programming Mode barcode

2.Scan the **Disable** barcode

Scan the Exit Programming Mode barcode







RS-232

When the scanner is connected to the RS-232 port of a host device, the scanner will automatically enable RS-232 communication.







Baud Rate

This parameter sets the baud rate of RS-232. Set the baud rate to match the host requirements.







Data Bits

This parameter allows the digital scanner to interface with devices requiring a 7-bit or 8-bit ASCII protocol.









Parity Check

A parity check bit is the most significant bit of each ASCII coded character. Select the parity type according to host device requirements.











Stop Bits

The stop bit(s) at the end of each transmitted character marks the end of transmission of one character and prepares the receiving (host) device for the next character in the serial data stream. Set the number of stop bits (one or two) to match host device requirements.







Symbology Settings



Enter Programming Mode

Enable All Symbologies

If the **Enable All Symbologies** feature is enabled, the scanner will be able to read supported symbologies.





Advanced 2D Image Scanner



Disable All Symbologies

If the **Diable All Symbologies** feature is enabled, the scanner will not be able to read supported symbologies.



Daiable All Symbologies





Enable All 1D Symbologies

If the **Enable All 1D Symbologies** feature is enabled, the scanner will be able to read all 1D symbologies and disable 2D symbologies.



Only Enable 1D Symbologies





Enable All 2D Symbologies

If the **Enable All 2D Symbologies** feature is enabled, the scanner will be able to read all 2D symbologies and disable 1D symbologies.



Only Enable 2D Symbologies





UPC-A

To enable or disable UPC-A, scan the appropriate barcode below.









UPC-A Preamble

Preamble characters are part of the UPC symbol, and include Country Code and System Character. There are two options for transmitting a UPC-A preamble to the host device: transmit System Character only and transmit no preamble. Select the appropriate option to match the host system.



Transmit System Character **







Transmit UPC-A Check Digit

Scan the appropriate barcode below to transmit the barcode data with or without the UPC-A check digit.



Transmit UPC-A Check Digit **



Do Not Transmit UPC-A Check Digit





Convert UPC-A to EAN-13

Enable this to convert 12-digit UPC-A to EAN-13 format before transmission.









2-Digit / 5-Digit Add-On Code



Enable 2-Digit / 5-Digit Add-On Code



Disable 2-Digit / 5-Digit Add-On Code **





Add-On Code Required

When **UPC-A Add-On Code Required** is selected, the scanner will only read UPC-A barcodes that contain add-on codes.



UPC-A Add-On Code Required



UPC-A Add-On Code Not Required **





UPC-E

To enable or disable UPC-E, scan the appropriate barcode below.









UPC-E Preamble

Preamble characters are part of the UPC symbol, and include Country Code and System Character. There are two options for transmitting a UPC-E preamble to the host device: transmit System Character only and transmit no preamble. Select the appropriate option to match the host system.



Transmit System Character **







Transmit UPC-E Check Digit

Scan the appropriate barcode below to transmit the barcode data with or without the UPC-E check digit.



Transmit UPC-E Check Digit **



Do Not Transmit UPC-E Check Digit





Convert UPC-E to UPC-A

Enable this to convert UPC-E to UPC-A format before transmission.









2-Digit / 5-Digit Add-On Code



Enable 2-Digit / 5-Digit Add-On Code



Disable 2-Digit / 5-Digit Add-On Code **





Add-On Code Required

When **UPC-A Add-On Code Required** is selected, the scanner will only read UPC-E barcodes that contain add-on codes.



UPC-E Add-On Code Required



UPC-E Add-On Code Not Required **





EAN-8

To enable or disable EAN-8, scan the appropriate barcode below.









Transmit EAN-8 Check Digit

Scan the appropriate barcode below to transmit the barcode data with or without the EAN-8 check digit.



Transmit EAN-8 Check Digit **



Do Not Transmit EAN-8 Check Digit





Convert EAN-8 to EAN-13

Enable this to convert EAN-8 to EAN-13 format before transmission.



Convert EAN-8 to EAN-13







2-Digit / 5-Digit Add-On Code



Enable 2-Digit / 5-Digit Add-On Code



Disable 2-Digit / 5-Digit Add-On Code **





Add-On Code Required

When **EAN-8 Add-On Code Required** is selected, the scanner will only read EAN-8 barcodes that contain add-on codes.



EAN-8 Add-On Code Required



EAN-8 Add-On Code Not Required **





EAN-13

To enable or disable EAN-8, scan the appropriate barcode below.









Transmit EAN-13 Check Digit

Scan the appropriate barcode below to transmit the barcode data with or without the EAN-13 check digit.



Transmit EAN-13 Check Digit **



Do Not Transmit EAN-13 Check Digit





EAN-13 ISBN Conversion

Enable / disable conversion of EAN/JAN-13 to Bookland ISBN, scan the appropriate barcode below



Enable ISBN Conversion







ISSN EAN

To enable or disable ISSN EAN, scan the appropriate barcode below









2-Digit / 5-Digit Add-On Code



Enable 2-Digit / 5-Digit Add-On Code



Disable 2-Digit / 5-Digit Add-On Code **





Add-On Code Required

When **EAN-13 Add-On Code Required** is selected, the scanner will only read EAN-13 barcodes that contain add-on codes.



EAN-13 Add-On Code Required



EAN-13 Add-On Code Not Required **




Code 128 / GS1 -128

To enable or disable Code 128/GS1-128, scan the appropriate barcode below.



Enable Code 128 / GS1-128 **



Disable Code 128 / GS1-128





Set Lengths for Code 128

Set lengths for Code 128 to any length, one or two discrete lengths, or lengths within a specific range. The default is any length.

One Discrete Length:

Select this option to decode Code 128 containing a selected length. For example, to decode Code 128 with 10 characters, scan **One Discrete Length**, then scan 1 followed by 0 in Appendix A, Numeric Barcodes.

Two Discrete Lengths:

Select this option to decode Code 128 containing either of two selected lengths. For example, to decode only Code 128 symbols containing either 6 or 12 characters, select **Two Discrete Lengths**, then scan **0**, **6**, **1**, and then 2 in Appendix A, Numeric Barcodes.

Length Within Range:

Select this option to decode a Code 128 symbol with a specific length range. For example, to decode Code 128 containing between 3 and 12 characters, first scan **Length Within Range**. Then scan **0**, **3**, **1**, and **2** in Appendix A, Numeric Barcodes.

Any Length:

Select this option to decode Code 128 symbols containing any number of characters within the digital scanner's capability.





Two Discrete Lengths















Code 39

To enable or disable Code 39, scan the appropriate barcode below.









Code 39 Full ASCII Conversion

Code 39 Full ASCII is a variant of Code 39 which pairs characters to encode the full ASCII character set. To enable or disable Code 39 Full ASCII, scan the appropriate barcode below.



Enable Code 39 Full ASCII







Code 39 Check Digit Verification

Enable this feature to check the integrity of all Code 39 symbols to verify that the data complies with specified check digit algorithm.



Disable Code 39 Check Digit **



Enable and Transmit Check Digit



Enable and Do Not Transmit Check Digit





Transmit Start / Stop Character

Scan a barcode below to transmit Code 39 data with or without the Start / Stop Character (*) .



Transmit Start / Stop Character



Do Not Transmit Start / Stop Character **





Set Lengths for Code 39

Set lengths for Code 39 to any length, one or two discrete lengths, or lengths within a specific range. The default is any length.

One Discrete Length:

Select this option to decode Code 39 containing a selected length. For example, to decode Code 39 with 10 characters, scan **One Discrete Length**, then scan 1 followed by 0 in Appendix A, Numeric Barcodes. .

Two Discrete Lengths:

Select this option to decode Code 39 containing either of two selected lengths. For example, to decode only Code 39 symbols containing either 6 or 12 characters, select **Two Discrete Lengths**, then scan **0**, **6**, **1**, and then 2 in Appendix A, Numeric Barcodes.

Length Within Range:

Select this option to decode a Code 39 symbol with a specific length range. For example, to decode Code 39 containing between 3 and 12 characters, first scan **Length Within Range**. Then scan **0**, **3**, **1**, and **2** in Appendix A, Numeric Barcodes.

Any Length:

Select this option to decode Code 39 symbols containing any number of characters within the digital scanner's capability.





Two Discrete Lengths















Convert Code 39 to Code 32

Code 32 is a variant of Code 39 used by the Italian pharmaceutical industry. Scan the appropriate barcode below to enable or disable converting Code 39 to Code 32.



Enable Convert Code 39 to Code 32



Disable Convert Code 39 to Code 32 **





Code 93

To enable or disable Code 93, scan the appropriate barcode below.









Set Lengths for Code 93

Set lengths for Code 39 to any length, one or two discrete lengths, or lengths within a specific range. The default is any length.

One Discrete Length:

Select this option to decode Code 93 containing a selected length. For example, to decode Code 93 with 10 characters, scan **One Discrete Length**, then scan 1 followed by 0 in Appendix A, Numeric Barcodes. .

Two Discrete Lengths:

Select this option to decode Code 93 containing either of two selected lengths. For example, to decode only Code 93 symbols containing either 6 or 12 characters, select **Two Discrete Lengths**, then scan **0**, **6**, **1**, and then 2 in Appendix A, Numeric Barcodes.

Length Within Range:

Select this option to decode a Code 93 symbol with a specific length range. For example, to decode Code 93 containing between 3 and 12 characters, first scan **Length Within Range**. Then scan **0**, **3**, **1**, and **2** in Appendix A, Numeric Barcodes.

Any Length:

Select this option to decode Code 93 symbols containing any number of characters within the digital scanner's capability.



One Discrete Length



Two Discrete Lengths







Length Within Range









Code 11

To enable or disable Code 11, scan the appropriate barcode below.









Check Digit Verification

Enable this feature to check the Code 11 Check Digit to verify that the data complies with the specified check digit algorithm.





1-digit checksum checking



2-digit checksum checking





Transmit Code 11 Check Digit

Scan the appropriate barcode below to transmit the barcode data with or without the Code 11 check digit.



Transmit Code 11 Check Digit **



Do Not Transmit Code 11 Check Digit





Set Lengths for Code 11

Set lengths for Code 11 to any length, one or two discrete lengths, or lengths within a specific range. The default is any length.

One Discrete Length:

Select this option to decode Code 11 containing a selected length. For example, to decode Code 11 with 10 characters, scan **One Discrete Length**, then scan 1 followed by 0 in Appendix A, Numeric Barcodes. .

Two Discrete Lengths:

Select this option to decode Code 11 containing either of two selected lengths. For example, to decode only Code 11 symbols containing either 6 or 12 characters, select **Two Discrete Lengths**, then scan **0**, **6**, **1**, and then 2 in Appendix A, Numeric Barcodes.

Length Within Range:

Select this option to decode a Code 11 symbol with a specific length range. For example, to decode Code 11 containing between 3 and 12 characters, first scan **Length Within Range**. Then scan **0**, **3**, **1**, and **2** in Appendix A, Numeric Barcodes.

Any Length:

Select this option to decode Code 11 symbols containing any number of characters within the digital scanner's capability.



One Discrete Length



Two Discrete Lengths







Length Within Range







Codabar

To enable or disable Codabar, scan the appropriate barcode below.









Check Digit Verification

Enable this feature to check the Codabar Mod 16 Check Digit to verify that the data complies with the specified check digit algorithm.





Transmit Check Digit After Verification



Do Not Transmit Check Digit After Verification





Transmit Start/Stop Character

Scan the appropriate barcode below to transmit the barcode data with or without the Codabar Start/Stop Character.



Transmit Codabar Start/Stop Character



Do Not Transmit Codabar Start/Stop Character **





Set Lengths for Codabar

Set lengths for Codabar to any length, one or two discrete lengths, or lengths within a specific range. The default is any length.

One Discrete Length:

Select this option to decode Codabar containing a selected length. For example, to decode Codabar with 10 characters, scan **One Discrete Length**, then scan 1 followed by 0 in Appendix A, Numeric Barcodes.

Two Discrete Lengths:

Select this option to decode Codabar containing either of two selected lengths. For example, to decode only Codabar symbols containing either 6 or 12 characters, select **Two Discrete Lengths**, then scan **0**, **6**, **1**, and then 2 in Appendix A, Numeric Barcodes.

Length Within Range:

Select this option to decode a Codabar symbol with a specific length range. For example, to decode Codabar containing between 3 and 12 characters, first scan **Length Within Range**. Then scan **0**, **3**, **1**, and **2** in Appendix A, Numeric Barcodes.

Any Length:

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



One Discrete Length



Two Discrete Lengths







Length Within Range









Plessey

To enable or disable Plessey, scan the appropriate barcode below.









Set Lengths for Plessey

Set lengths for Plessey to any length, one or two discrete lengths, or lengths within a specific range. The default is any length.

One Discrete Length:

Select this option to decode Plessey containing a selected length. For example, to decode Plessey with 10 characters, scan **One Discrete Length**, then scan 1 followed by 0 in Appendix A, Numeric Barcodes. .

Two Discrete Lengths:

Select this option to decode Plessey containing either of two selected lengths. For example, to decode only Plessey symbols containing either 6 or 12 characters, select **Two Discrete Lengths**, then scan **0**, **6**, **1**, and then 2 in Appendix A, Numeric Barcodes.

Length Within Range:

Select this option to decode a Plessey symbol with a specific length range. For example, to decode Plessey containing between 3 and 12 characters, first scan **Length Within Range**. Then scan **0**, **3**, **1**, and **2** in Appendix A, Numeric Barcodes.

Any Length:

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



One Discrete Length



Two Discrete Lengths







Length Within Range







MSI

To enable or disable MSI, scan the appropriate barcode below.









Transmit MSI Check Digit(s)

Scan a barcode below to transmit MSI data with or without the check digit.





Do Not Transmit MSI Check Digit(s)





MSI Check Digit Algorithm

Check characters are optional for MSI and can be added as the last one or two characters, which are calculated values used to verify the integrity of the data. Scan a barcode below to transmit MSI data with or without the check digit.









MOD10/MOD11





Set Lengths for MSI

Set lengths for MSI to any length, one or two discrete lengths, or lengths within a specific range. The default is any length.

One Discrete Length:

Select this option to decode MSI containing a selected length. For example, to decode MSI with 10 characters, scan **One Discrete Length**, then scan 1 followed by 0 in Appendix A, Numeric Barcodes.

Two Discrete Lengths:

Select this option to decode MSI containing either of two selected lengths. For example, to decode only MSI symbols containing either 6 or 12 characters, select **Two Discrete Lengths**, then scan **0**, **6**, **1**, and then 2 in Appendix A, Numeric Barcodes.

Length Within Range:

Select this option to decode a MSI symbol with a specific length range. For example, to decode MSI containing between 3 and 12 characters, first scan Length Within Range. Then scan 0, 3, 1, and 2 in Appendix A, Numeric Barcodes.

Any Length:

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



One Discrete Length



Two Discrete Lengths

















Interleaved 2 of 5

To enable or disable Interleaved 2 of 5, scan the appropriate barcode below.



Enable Interleaved 2 of 5 **



Disable Interleaved 2 of 5





Check Character Verification

A check character is optional for Interleaved 2 of 5 and can be added as the last character. It is a calculated value used to verify the integrity of the data.





Transmit Check Character After Verification



Do Not Transmit Check Character After Verification





Set Lengths for Interleaved 2 of 5

Set lengths for Interleaved 2 of 5to any length, one or two discrete lengths, or lengths within a specific range. The default is any length.

One Discrete Length:

Select this option to decode Interleaved 2 of 5containing a selected length. For example, to decode Interleaved 2 of 5 with 10 characters, scan **One Discrete Length**, then scan 1 followed by 0 in Appendix A, Numeric Barcodes.

Two Discrete Lengths:

Select this option to decode Interleaved 2 of 5containing either of two selected lengths. For example, to decode only Interleaved 2 of 5 symbols containing either 6 or 12 characters, select **Two Discrete Lengths**, then scan **0**, **6**, **1**, and then 2 in Appendix A, Numeric Barcodes.

Length Within Range:

Select this option to decode a Interleaved 2 of 5 symbol with a specific length range. For example, to decode Interleaved 2 of 5containing between 3 and 12 characters, first scan **Length Within Range**. Then scan **0**, **3**, **1**, and **2** in Appendix A, Numeric Barcodes.

Any Length:

Select this option to decode Interleaved 2 of 5 symbols containing any number of characters within the digital scanner's capability.



One Discrete Length



Two Discrete Lengths







Length Within Range









Matrix 2 of 5

To enable or disable Matrix 2 of 5, scan the appropriate barcode below.



Enable Matrix 2 of 5






Set Lengths for Matrix 2 of 5

Set lengths for Matrix 2 of 5 to any length, one or two discrete lengths, or lengths within a specific range. The default is any length.

One Discrete Length:

Select this option to decode Matrix 2 of 5 containing a selected length. For example, to decode Matrix 2 of 5 with 10 characters, scan **One Discrete Length**, then scan 1 followed by 0 in Appendix A, Numeric Barcodes.

Two Discrete Lengths:

Select this option to decode Matrix 2 of 5 containing either of two selected lengths. For example, to decode only Matrix 2 of 5 symbols containing either 6 or 12 characters, select **Two Discrete Lengths**, then scan **0**, **6**, **1**, and then 2 in Appendix A, Numeric Barcodes.

Length Within Range:

Select this option to decode a Matrix 2 of 5 symbol with a specific length range. For example, to decode Matrix 2 of 5 containing between 3 and 12 characters, first scan **Length Within Range**. Then scan **0**, **3**, **1**, and **2** in Appendix A, Numeric Barcodes.

Any Length:

Select this option to decode Matrix 2 of 5 symbols containing any number of characters within the digital scanner's capability.



One Discrete Length



Two Discrete Lengths













IATA 2 of 5

To enable or disable IATA 2 of 5, scan the appropriate barcode below.









Straight 2 of 5

To enable or disable Straight 2 of 5, scan the appropriate barcode below.



Enable Straight 2 of 5







Pharmacode

To enable or disable Pharmacode, scan the appropriate barcode below.



Enable Pharmacode







GS1 DataBar 14

To enable or disable GS1 DataBar 14, scan the appropriate barcode below.



Enable GS1 DataBar 14 **



Disable GS1 DataBar 14





GS1 DataBar 14 Stacked

To enable or disable GS1 DataBar 14 Stacked, scan the appropriate barcode below.



Enable GS1 DataBar 14 Stacked



Disable GS1 DataBar 14 Stacked **





Transmit GS1 DataBar 14 AI (01) Digit

Scan the appropriate barcode below to transmit the barcode data with or without the GS1 DataBar 14AI (01) digit.





Do Not Transmit AI (01) Digit





GS1 DataBar Expanded

To enable or disable GS1 DataBar Expanded, scan the appropriate barcode below.



Enable GS1 DataBar Expanded **



Disable GS1 DataBar Expanded





GS1 DataBar Expanded Stacked

To enable or disable GS1 DataBar Expanded Stacked, scan the appropriate barcode below.



Enable GS1 DataBar Expanded Stacked



Disable GS1 DataBar Expanded Stacked **





Transmit GS1 DataBar Expanded AI (01) Digit

Scan the appropriate barcode below to transmit the barcode data with or without the GS1 DataBar Expanded AI (01) digit.





Do Not Transmit AI (01) Digit





GS1 DataBar Limited

To enable or disable GS1 DataBar 14 Limites, scan the appropriate barcode below



Enable GS1 DataBar Limited**



DisableGS1 DataBar Limited





Transmit GS1 DataBar Limited AI (01) Digit

Scan the appropriate barcode below to transmit the barcode data with or without the GS1 DataBar Limited AI (01) digit.



Transmit Al (01) Digit **



Do Not Transmit Al (01) Digit





Composite Code-A

To enable or disable Composite Code-A, scan the appropriate barcode below.



Enable Composite Code-A



Disable Composite Code-A **





Composite Code-B

To enable or disable Composite Code-B, scan the appropriate barcode below.



Enable Composite Code-B



Disable Composite Code-B **





Composite Code-C

To enable or disable Composite Code-C, scan the appropriate barcode below.



Enable Composite Code-C



Disable Composite Code-C **





PDF417

To enable or disable PDF417, scan the appropriate barcode below.









Micro PDF417

To enable or disable Micro PDF417, scan the appropriate barcode below.



Enable Micro PDF417 **



Disable Micro PDF417





Data Matrix

To enable or disable Data Matrix, scan the appropriate barcode below.





Disable Data Matrix





Rectangular Data Matrix

To enable or disable Rectangular Data Matrix, scan the appropriate barcode below.



Enable Rectangular Data Matrix **



DisableRectangular Data Matrix





Data Matrix Mirrored

Select a mirror image Data Matrix setting:

•Non-Mirrored Only - Scanner decodes non-mirrored Data Matrix barcodes only.

•Mirrored Auto detect - Scanner decodes both mirrored and non-mirrored Data Matrix barcodes.



Mirrored Auto detect **







QR

To enable or disable QR, scan the appropriate barcode below.









QR Mirrored

Select a mirror image QR setting:

- •Non-Mirrored Only Scanner decodes non-mirrored QR barcodes only.
- •Mirrored Auto detect Scanner decodes both mirrored and non-mirrored QR barcodes.









Micro QR

To enable or disable Micro QR, scan the appropriate barcode below.









Aztec

To enable or disable Aztec, scan the appropriate barcode below.









Aztec Mirrored

Select a mirror image Aztec setting:

•Non-Mirrored Only - Scanner decodes non-mirrored Aztec barcodes only.

•Mirrored Auto detect - Scanner decodes both mirrored and non-mirrored Aztec barcodes.









MaxiCode

To enable or disable MaxiCode, scan the appropriate barcode below.



Enable MaxiCode







DotCode

To enable or disable DotCode, scan the appropriate barcode below.







Prefix & Suffix

AIM ID Settings



Enter Programming Mode

AIM ID

AIM (Automatic Identification Manufacturers) ID defines symbology identifier (For the details, see the "AIM ID Table"). If AIM ID prefix is enabled, the scanner will add the symbology identifier before the scanned data after decoding.





Enable AIM ID



AIM ID Table

Symbology	ID	Modifier	Description
UPC / EAN	E	0	Standard EAN/UPC (13 digits).
		3	EAN/UPC with 2/5-digit supplemental appended.
		4	EAN-8 .
Code 128		0	Standard.
	С	1 Function code 1 in first ch position.	Function code 1 in first character position.
		2	Function code 1 in second character position.

Symbology	ID	Modifier	Description
Code 39	A	0	No checksum checking or Full ASCII conversion.
		1	Check character checked and included in decode string.
		3	Check character checked and stripped from decode string.
		4	No check character with Full ASCII conversion.
		5	Same as '1' with Full ASCII conversion.
		7	Same as '3' with Full ASCII conversion.
Code 93	G	0	Standard.
Code 11	Н	0	1-digit or 2-digit check characters checked and included in decode string.
		2	Check character(s) checked and stripped from decode string .

Symbology	ID	Modifier	Description
Codabar	F	0	No checksum checking.
		2	Check character checked and included in decode string.
		6	Check character checked and stripped from decode string.
Plessey	Ρ	0	Standard Plessey.
MSI	М	0	No checksum checking
		1	Mod 10 checked and included in decode string.
		2	Mod 11 and Mod 10 checked and included in decode string.
		3	Two Mod 10 checked and included in decode string.
		5	Mod 10 checked and stripped from decode string.
		6	Mod 11 and Mod 10 checked and stripped from decode string.
		7	Two Mod 10 checked and stripped from decode string.

Symbology	ID	Modifier	Description
I 2 of 5	I	0	No checksum checking.
		1	Check character checked and included in decode string.
		3	Check character checked and stripped from decode string.
IATA 2 of 5	R	0	Standard.
Straight 2 of 5	S	0	Standard.
Matrix 2 of 5	x	М	No checksum checking (non-standard).
		0	Check character checked and included in decode string.
		1	Check character checked and stripped from decode string.
Pharmacode	х	Р	Non-standard.
GS1 DataBar	е	0	For all types of GS1 DataBar symbols.
Composite	е	0	СС-А, СС-В, СС-С.

Symbology	ID	Modifier	Description
PDF417	L	0	Reader set to conform to 1994 PDF417 Spec.
		1	Support ECI. All characters 92 are doubled.
		2	Basic Channel operation. Char 92 not doubled.
Micro PDF417	L	0	Reader set to conform to 1994 PDF417 Spe.c
		1	Support ECI. All characters 92 are doubled.
		2	Basic Channel operation. Char 92 not doubled.
		3	Code 128 emulation: implied FNC1 in first position.
		4	Code 128 emulation: implied FNC1 after initial letter or pair of digits.
		5	Code 128 emulation: no implied FNC1.

Symbology	ID	Modifier	Description
Data Matrix	d	0	ECC 000 – 140 , not supported.
		1	ECC 200.
		2	ECC 200, FNC1 in first or fifth position.
		3	ECC 200, FNC1 in second or sixth position.
		4	ECC 200, ECI protocol implemented.
		5	ECC 200, FNC1 in first or fifth position, ECI protocol implemented
		6	ECC 200, FNC1 in second or sixth position, ECI protocol implemented

Symbology	ID	Modifier	Description
QR / Micro QR	Q	0	AIM ISS 97-001 (Model 1) symbol.
		1	QR 2005 (Model 2), ECI protocol not implemented.
		2	QR 2005, ECI protocol implemented.
		3	QR 2005, ECI protocol not implemented, FNC1 implied in first position.
		4	QR 2005, ECI protocol implemented, FNC1 implied in first position.
		5	QR 2005, ECI protocol not implemented, FNC1 implied in second position.
		6	QR 2005, ECI protocol implemented, FNC1 implied in second position
MaxiCode	U	0	Standard
Symbology	ID	Modifier	Description
-----------	----	----------	---
Aztec	Z	0	No Options.
		1	FNC1 in first position.
		2	FNC1 after initial letter or pair of digits.
		3	ECI protocol implemented.
		4	ECI protocol implemented, FNC1 in first position
		5	ECI protocol implemented , FNC1 after initial letter or pair of digits
		6	Stuctured Append header included
		7	Stuctured Append header included, FNC1 in first position.
		8	Stuctured Append header included, FNC1 after initial letter or pair of digits

Symbology	ID	Modifier	Description	
		9	Stuctured Append header included, ECI protocol implemented.	
		А	Stuctured Append header included, FNC1 in first position, ECI protocol implemented.	
		В	Stuctured Append header included, FNC1 after initial letter or pair of digits, ECI protocol implemented.	
		С	Aztec Rune symbol.	
Dot Code	J	0	Generic data, neither Case A nor Case B below.	
		1	Case A – GS1-formatted data.	
		2	Case B – application –specific data indicated by opening letter or digits.	
		3	Neither Case A nor Case B, with an ECI in the segment and "\"s doubled.	
		4	Case A with an ECI in the segment and "\"s doubled.	
		5	Case B with an ECI in the segment and "\"s doubled.	

Prefix Settings



Enter Programming Mode

Prefix for All Symbologies

If **Prefix for All Symbologies** is enabled, you are allowed to append to the data a user-defined prefix for all symbologies.

Example: Set Prefix "ABCD" for all symbologies

- 1.Scan the Enter Programming Mode barcode
- 2.Scan the Set Prefix for All Symbologies barcode
- 3.Scan the ASCII barcodes "A" barcode from ASCII Barcodes in Appendix D
- 4.Scan the ASCII barcodes "B" barcode from Numeric Barcodes in Appendix D
- 5.Scan the ASCII barcodes "C" barcode from Numeric Barcodes in Appendix D
- 6.Scan the ASCII barcodes "D" barcode from Numeric Barcodes in Appendix D

7.Scan the Exit Programming Mode barcode

Example: Disable Prefix for all symbologies

- 1.Scan the Enter Programming Mode barcode
- 2.Scan the Dsiable Prefix for All Symbologies barcode
- 3.Scan the Exit Programming Mode barcode



Disable Prefix for All Symbologies **







Set Prefix for All Symbologies





Symbology Prefix

If **Symbology Prefix** is enabled, you are allowed to append to the data a user-defined prefix for a specific symbology .

Example: Set Prefix "80" for QR

- 1.Scan the Enter Programming Mode barcode
- 2.Scan the Set Symbology Prefix barcode
- 3.Scan the **QR** barcode from Symbologies Barcodes in Appendix B
- 4.Scan the numeric barcodes "8" barcode from Numeric Barcodes in Appendix A
- 5.Scan the numeric barcodes "0" barcode from Numeric Barcodes in Appendix A
- 6.Scan the Exit Programming Mode barcode

Example: Disable Prefix for QR

- 1.Scan the Enter Programming Mode barcode
- 2.Scan the Disable Symbology Prefix barcode
- 3.Scan the **QR** barcode from Symbologies Barcodes in Appendix B.
- 4.Scan the Exit Programming Mode barcode



Disable Symbology Prefix







Set Symbology Prefix



Suffix Settings



Enter Programming Mode

Suffix for All Symbologies

If **Suffix for All Symbologies** is enabled, you are allowed to append to the data a user-defined suffix for all symbologies.

Example: Set Suffix"XYZ" for all symbologies

- 1.Scan the Enter Programming Mode barcode
- 2.Scan the Set Suffix for All Symbologies barcode
- 3.Scan the ASCII barcodes "X" barcode from ASCII Barcodes in Appendix C
- 4.Scan the ASCII barcodes "Y" barcode from Numeric Barcodes in Appendix C
- 5.Scan the ASCII barcodes "Z" barcode from Numeric Barcodes in Appendix C

6.Scan the Exit Programming Mode barcode

Example: Disable Suffix for all symbologies

- 1.Scan the Enter Programming Mode barcode
- 2.Scan the Dsiable Suffix for All Symbologies barcode
- 3.Scan the Exit Programming Mode barcode



Disable Suffix for All Symbologies **







Set Suffix for All Symbologies





Symbology Suffix

If **Symbology Suffix** is enabled, you are allowed to append to the data a user-defined suffix for a specific symbology .

Example: Set Suffix "@1" for QR

- 1.Scan the Enter Programming Mode barcode
- 2.Scan the Set Symbology Suffix barcode
- 3.Scan the **QR** barcode from Symbologies Barcodes in Appendix B
- 4.Scan the ASCII barcodes "@" barcode from ASCII Barcodes in Appendix C
- 5.Scan the numeric barcodes "1" barcode from Numeric Barcodes in Appendix A
- 6.Scan the Exit Programming Mode barcode
- **Example: Disable Suffix for QR**
- Scan the Enter Programming Mode barcode
- Scan the Disable Symbology Suffix barcode
- Scan the **QR** barcode from Symbologies Barcodes in Appendix B
- Scan the Exit Programming Mode barcode



Disable Symbology Suffix











Terminating Character

A terminating character such as carriage return (CR) or carriage return/line feed pair (CRLF) can only be used to mark the end of data.





Set Terminating Character to CR (0x0D) **



Set Terminating Character to CR LF (0x0D,0x0A)

Set Terminating Character to TAB (0x09)



Data Editing



Enter Programming Mode

Caps Lock

The **Caps Lock On** options can invert upper and lower case characters contained in barcode data.



Disable Caps Lock **



Enable Caps Lock





Case Conversion

Scan the appropriate barcode below to convert all barcode data to your desired case.





Upper Case







Convert GS Code to Other ASCII Code

- Example: Convert GS to #
- 1.Scan the Enter Programming Mode barcode
- 2.Scan the Set GS (0x1D) to Other ASCII Code barcode
- 3.Scan the ASCII barcodes # barcode from ASCII Barcodes in Appendix C
- 4.Scan the Exit Programming Mode barcode

Example: Disable GS Conversion Scan the Enter Programming Mode barcode Scan the Disable GS Code Conversion barcode Scan the Exit Programming Mode barcode



Disable GS Code Conversion **







Set GS (0x1D) to Other ASCII Code



Truncate Data



Enter Programming Mode

Truncate Leading Data

This parameter sets the number of leading data to be truncated. It is programmable in 1 increment from 1 to 20 characters. The default setting is 0. **Example: Truncate 8 characters of leading data for all barcodes** Scan the **Enter Programming Mode** barcode Scan the **Truncate Leading Data For All Barcodes** Scan the numeric barcodes "8" barcode from Numeric Barcodes in Appendix Scan the **Exit Programming Mode** barcode **Example: Truncate 2 characters of leading data for code 128** Scan the **Enter Programming Mode** barcode Scan the **Truncate Leading Data For Specified Barcode** Scan the **Truncate Leading Data For Specified Barcode** Scan the numeric barcodes "2" barcode from Numeric Barcodes in Appendix Scan the **Exit Programming Mode** barcode **Example: Disable truncate leading data for all barcodes** Scan the **Enter Programming Mode** barcode

Scan the Truncate Leading Data For All Barcodes

Scan the numeric barcodes "0" barcode from Numeric Barcodes in Appendix Scan the Exit Programming Mode barcode



Truncate Leading Data For All Barcodes







Truncate Leading Data For Specified Barcode





Truncate Ending Data

This parameter sets the number of ending data to be truncated. It is programmable in 1 increment from 1 to 20 characters. The default setting is 0. **Example: Truncate 5 characters of leading data for all barcodes** Scan the **Enter Programming Mode** barcode Scan the **Truncate Ending Data For All Barcodes** Scan the numeric barcodes "5" barcode from Numeric Barcodes in Appendix Scan the **Exit Programming Mode** barcode

Example: Truncate 1 characters of leading data for code 39 Scan the Enter Programming Mode barcode Scan the Truncate Ending Data For Specified Barcode Scan the Code 39 barcode from Symbologies Barcodes in Appendix Scan the numeric barcodes "1" barcode from Numeric Barcodes in Appendix Scan the Exit Programming Mode barcode

Example: Disable truncate leading data for all barcodes Scan the Enter Programming Mode barcode Scan the Truncate Ending Data For All Barcodes Scan the numeric barcodes "0" barcode from Numeric Barcodes in Appendix Scan the Exit Programming Mode barcode



Truncate Ending Data For All Barcodes







Truncate Ending Data For Specified Barcode





Default Settings



Enter Programming Mode

Factory Defaults

Scan the Set Factory Defaults barcode below to set the scanner to factory default values



Set Factory Defaults







Custom Defaults

Write to Custom Defaults

Custom default parameters can be configured to set unique default values for all parameters. After changing all parameters to the desired default values, scan the **Write to Custom Defaults**

barcode below to configure custom defaults.

Restore Custom Defaults

If custom default values were configured (see **Write to Custom Defaults**), the custom default values are set for all parameters each time the **Restore Defaults** barcode below is scanned.



Write to Custom Defaults



Restore Custom Defaults



Appendix

Appendix A - Numeric Barcodes











Appendix B - Symbologies Barcodes









Advanced 2D Image Scanner



Code 128





Code 93





Code 11



Plessey























GS1 DataBar Expanded Stacked



















Aztec



Appendix C - ASCII Code Barcodes

HFX	Decimal	ASCII	Function Key Mapping		
TILX	Decimal	ASCII	Disable	Control-Key	Alt+Unicode
00 (NUL)	0	NUL	Null	Ctrl+@	Alt + 000
01 (SOH)	1	SOH	Home	Ctrl+A	Alt + 001
02 (STX)	2	STX	Alt	Ctrl+B	Alt + 002

НЕХ	Docimal		Function Key Mapping		
HEA	Decimal	ASCII	Disable	Control-Key	Alt+Unicode
03 (ETX)	3	ETX	Up Arrow	Ctrl+C	Alt + 003
04 (EOT)	4	EOT	Null	Ctrl+D	Alt + 004
05 (ENQ)	5	ENQ	Ctrl	Ctrl+E	Alt + 005

PROGRAMMING GUIDE

НЕХ	Decimal	acimal ACCII	Function Key Mapping		
HEX	Decimai	ASCII	Disable	Control-Key	Alt+Unicode
06 (ACK)	6	ACK	Right Arrow	Ctrl+F	Alt + 006
07 (BEL)	7	BEL	Null	Ctrl+G	Alt + 007
	8	BS	Left Arrow	Ctrl+H	Alt + 008

HFX	Docimal	ASCII	Function Key Mapping		
TIEX	Decimal		Disable	Control-Key	Alt+Unicode
09	9	ТАВ	TAB	Ctrl+I	Alt + 009
OA (LF)	10		Down Arrow	Ctrl+J	Alt + 010
OB (VT)	11	VT	Null	Ctrl+K	Alt + 011

PROGRAMMING GUIDE

HFX	Decimal	acimal ASCII	Function Key Mapping		
TEX	Decimai	ASCII	Disable	Control-Key	Alt+Unicode
OC (FF)	12	FF	Null	Ctrl+L	Alt + 012
OD (CR)	13	CR	Enter	Enter	Enter
0E (SO)	14	so	Page Up	Ctrl+N	Alt + 014

HFX	Docimal		Function Key Mapping		
HEA	Decimal	ASCII	Disable	Control-Key	Alt+Unicode
OF (SI)	15	Lo Na	Page Down	Ctrl+O	Alt + 015
10 (DLE)	16	DLE	F11	Ctrl+P	Alt + 016
11 (DC1)	17	DC1	Null	Ctrl+Q	Alt + 017

PROGRAMMING GUIDE

НЕХ	Desimal	mal ASCII	Function Key Mapping		
TEX	Decimai		Disable	Control-Key	Alt+Unicode
12 (DC2)	18	DC2	Null	Ctrl+R	Alt + 018
13 (DC3)	19	DC3	Null	Ctrl+S	Alt + 019
14 (DC4)	20	DC4	Null	Ctrl+T	Alt + 020
LEV	Docimal ASCII		Fun	ction Key Map	oping
----------	---------------	-------	---------	---------------	-------------
HEA	Decimal	ASCII	Disable	Control-Key	Alt+Unicode
15 (NAK)	21	NAK	F12	Ctrl+U	Alt + 021
16 (SYN)	22	SYN	F1	Ctrl+V	Alt + 022
17 (ETB)	23	ETB	F2	Ctrl+W	Alt + 023

HEY	Docimal	ASCU	Fun	ction Key Map	oping
TEX	Decimai	ASCII	Disable	Control-Key	Alt+Unicode
18 (CAN)	24		F3	Ctrl+X	Alt + 024
19 (CAN)	25	EM	F4	Ctrl+Y	Alt + 025
1A (SUB)	26	SUB	F5	Ctrl+Z	Alt + 026

LEV	Docimal		Fun	ction Key Map	oping
TILX	Decimal	ASCII	Disable	Control-Key	Alt+Unicode
1B (ESC)	27	ESC	F6	Ctrl+[Alt + 027
1C (FS)	28	FS	F7	Ctrl+\	Alt + 028
1D (GS)	29	GS	F8	Ctrl+]	Alt + 029

	Decimal	ASCII	Fun	ction Key Map	oping
	Decimai	ASCII	Disable	Control-Key	Alt+Unicode
1E (US)	30	RS	F9	Ctrl+6	Alt + 030
1F (US)	31	US	F10	Ctrl+-	Alt + 031

НЕХ	Decimal	ASCII	
20	32	SPACE	
21	33	ļ	
22	34	II	
23	35	#	

НЕХ	Decimal	ASCII	
24	36	\$	<u>978</u>
25	37	%	
26	38	&	
27	39	ı	

НЕХ	Decimal	ASCII	
28	40	(鑁
29	41)	鑁
2A	42	*	
2В	43	+	

НЕХ	Decimal	AS	SCII
2C	44	,	<u>63</u>
2D	45	-	
2E	46		
2F	47	/	

HEX	Decimal	ASCII	
30	48	0	貖
31	49	1	
32	50	2	
33	51	3	

НЕХ	Decimal	AS	CII
34	52	4	
35	53	5	
36	54	6	
37	55	7	i i i i i i i i i i i i i i i i i i i

НЕХ	Decimal	ASCII	
38	56	8	
39	57	9	8 8
ЗA	58	:	
3В	59	;	

HEX	Decimal	ASCII	
3C	60	<	
3D	61	=	
3E	62	>	
3F	63	?	

НЕХ	Decimal	ASCII	
40	64	@	32
41	65	A	974 200
42	66	В	
43	67	С	

НЕХ	Decimal	ASCII	
44	68	D	
45	69	E	
46	70	F	题
47	71	G	

HEX	Decimal	ASCII	
48	72	Н	52) 52)
49	73	Ι	鼝
4A	74	J	遡
4B	75	К	

НЕХ	Decimal	ASCII	
4C	76	L	
4D	77	М	
4E	78	N	斑
4F	79	0	

НЕХ	Decimal	ASCII	
50	80	Ρ	
51	81	Q	₩¥
52	82	R	
53	83	S	14

HEX	Decimal	ASCII	
54	84	т	
55	85	U	
56	86	V	腇
57	87	w	E\$

НЕХ	Decimal	ASCII	
58	88	Х	
59	89	Y	
5A	90	Z	
5B	91	[<u>63</u>

HEX	Decimal	ASCII	
5C	92	١	
5D	93]	
5E	94	٨	22
5F	95	_	<u>19</u>

НЕХ	Decimal	ASCII	
60	96	ς.	
62	97	а	<u>878</u>
62	98	b	<u>166</u>
63	99	C	

НЕХ	Decimal	ASCII	
64	100	d	
65	101	e	
66	102	f	
67	103	g	

НЕХ	Decimal	ASCII	
68	104	h	
69	105	i	
6A	106	j	
6B	107	k	

HEX	Decimal	ASCII	
6C	108	I	<u> 26</u>
6D	109	m	
6E	110	n	
6F	111	0	隧

HEX	Decimal	ASCII	
70	112	р	蠿
71	113	q	鑃
72	114	r	
73	115	S	

HEX	Decimal	ASCII	
74	116	t	
75	117	u	K
76	118	v	
77	119	w	5 2

HEX	Decimal	ASCII	
78	120	x	223 223
79	121	Ŷ	鑁
7A	122	Z	
7B	123	{	

HEX	Decimal	ASCII	
7C	124	I	2
7D	125	}	
7E	126	~	8 8
7F	127	Delete	8

Appendix D - Function Key Barcodes



Insert





End





























F3









F7



F10





F11

