ALBASCA

MK-5120ZBe
User Manual

V2.2

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Factory Defaults

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Custom Defaults

Scan Mode

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Sense Mode Sensitivity

Start / End

Low Sensitivity


&
Medium Sensitivity / DEFAULT


High Sensitivity

Decode Redundancy

The scanner offers three levels of decode redundancy. Select higher redundancy levels for decreasing levels of bar code quality.

As redundancy levels increase, the scanner's aggressiveness decreases. Select the redundancy level appropriate for the bar code quality.

Redundancy Level 1

All code types just read one time.

Redundancy Level 2

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

Redundancy Level 3

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

Decode Redundancy

Start / End

1 time / DEFAULT

2 times

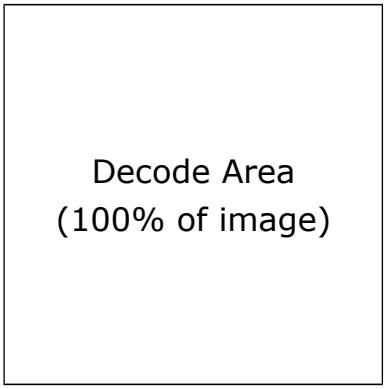
3 times

Decode Area

The scanner offers four settings of decode area.

Full size of image

To decode the barcode within full size of image



75% of image

To decode the barcode within 75% of image

Ignore Area (12.5% of image)
Decode Area (75% of image)
Ignore Area (12.5% of image)

Decode Area - Continued

50% of image

To decode the barcode within 50% of image

Ignore Area (25% of image)
Decode Area (50% of image)
Ignore Area (25% of image)

25% of image

To decode the barcode within 25% of image

Ignore Area (37.5% of image)
Decode Area (25% of image)
Ignore Area (37.5% of image)

Decode Area - Continued

Start / End

Full Size / DEFAULT

75% of image

50% of image

25% of image

Decode Session Timeout

This parameter sets the maximum time decode session continues during a scan attempt. This feature is only applicable to the **Trigger** and **Sense** modes. It is programmable in 1ms increments from 1ms to 60,000 ms. When it is set to 0 , the timeout is infinite. The default setting is 5,000 ms.

Set the decode session timeout to 1,500ms

1. Scan the **Start** barcode.

2. Scan the **Decode Session Timeout** barcode.

3. Scan the “1”, “5”, “0” and “0” barcodes from the **Digit Number** in Appendix C.

4. Scan the **End** barcode.

Start / End

Decode Session Timeout

Time to Read Same Barcode

• Timeout between Decodes

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 1ms increments from 1ms to 5,000 ms. When it is set to 0, the timeout is disable. The default setting is 1500 ms.

• Ignore Same Code

Time to ignore the decode when read same barcode in a given period of time. This feature is only applicable to the **Sense** and **Continuous** modes.

Set the timeout between decodes to 500ms

1. Scan the **Start** barcode.
2. Scan the **Timeout between Decodes** barcode
3. Scan the “5”, “0” and “0” barcodes from the **Digit Number** in Appendix C.
4. Scan the **End** barcode.

Set the ignore same barcode to 250 ms

1. Scan the **Start** barcode.
2. Scan the **Ignore Same Barcode**
3. Scan the “2”, “5” and “0” barcodes from the **Digit Number** in Appendix C.
4. Scan the **End** barcode.

Time to Read Same Barcode - Continued

Start / End

Timeout between Decodes / DEFAULT

Ignore Same Barcode

Time to Suspend State

This parameter sets the time to enter to suspend state when the decoder is idle. This feature is only applicable to the **Trigger** and **Continuous** modes. It is programmable in 1ms increments from 1ms to 36,00,000 ms. When it is set to 0, the timeout is disable.

The default setting is 15,000 ms.

Set the time to suspend state to 2,500 ms

1. Scan the **Start** barcode.

2. Scan the **Time to Suspend State** barcode

3. Scan the “2”, “5”, “0” and “0” barcodes from the **Digit Number** in Appendix C.

4. Scan the **End** barcode.

Start / End

Time to Suspend State

Illumination Mode

Start / End

Disable

Enable by trigger / DEFAULT

Always On

Fade Up

Illumination Level

Start / End

Minimum

Medium

Maximum / DEFAULT

Aiming Pattern

Start / End

Disable

Enable by trigger / DEFAULT

Always On

Buzzer Output

Start / End

Disable

Enable / DEFAULT

Code Settings

Enable All Codes

Start / End

Enable All Codes

Enable 1D Codes

Start / End

Enable 1D Codes

Enable 2D Codes

Start / End

Enable 2D Codes

Disable All Codes

Start / End

Disable All Codes

UPC-A

Start / End

Enable UPC-A / DEFAULT

Disable UPC-A

UPC-A - Continued

Start / End

Include Number System Digit / DEFAULT

Exclude Number System Digit

UPC-A - Continued

Start / End

Send Check Digit / DEFAULT

Don't Send Check Digit

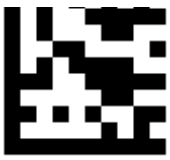
UPC-A - Continued

Start / End

Expand to EAN13

Don't Expand to EAN13 / DEFAULT

UPC-A - Continued



Start / End

Disable UPC-A Add-ons / DEFAULT

Enable UPC-A 2/5-Digit Add-ons

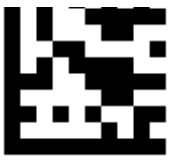
UPC-A - Continued

Start / End

Enable UPC-A 2-Digit Add-ons

Enable UPC-A 5-Digit Add-ons

UPC-A - Continued



Start / End

Disable UPC-A 2/5-Digit Add-ons Only / DEFAULT

Enable UPC-A 2/5-Digit Add-ons Only

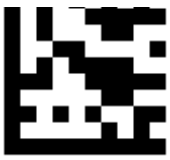
UPC-E

Start / End

Enable UPC-E / DEFAULT

Disable UPC-E

UPC-E - Continued

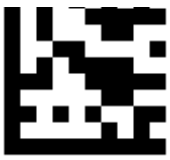


Start / End

Include Number System Digit / DEFAULT

Exclude Number System Digit

UPC-E - Continued



Start / End

Send Check Digit / DEFAULT

Don't Send Check Digit

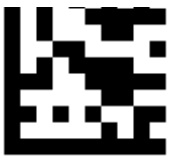
UPC-E - Continued

Start / End

Expand to UPC-A

Don't Expand to UPC-A / DEFAULT

UPC-E - Continued



Start / End

Disable UPC-E Add-ons / DEFAULT

Enable UPC-E 2/5-Digit Add-ons

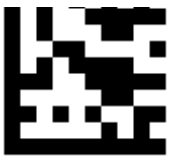
UPC-E - Continued

Start / End

Enable UPC-E 2-Digit Add-ons

Enable UPC-E 5-Digit Add-ons

UPC-E - Continued



Start / End

Disable UPC-E 2/5-Digit Add-ons Only / DEFAULT

Enable UPC-E 2/5-Digit Add-ons Only

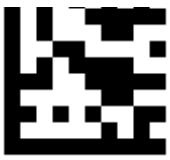
EAN 13

Start / End

Enable EAN 13 / DEFAULT

Disable EAN 13

EAN 13 - Continued



Start / End

Send Check Digit / DEFAULT

Don't Send Check Digit

EAN 13 - Continued

Start / End

Disable ISBN / DEFAULT

Enable ISBN

EAN 13 - Continued

Start / End

Disable EAN 13 Add-ons / DEFAULT

 Enable EAN 13 2/5-Digit Add-ons

EAN 13 - Continued

Start / End

Enable EAN 13 2-Digit Add-ons

Enable EAN 13 5-Digit Add-ons

EAN 13 - Continued

Start / End

Disable EAN 13 2/5-Digit Add-ons Only / DEFAULT

Enable EAN 13 2/5-Digit Add-ons Only

EAN 8

Start / End

Enable EAN 8 / DEFAULT

Disable EAN 8

EAN 8 - Continued

Start / End

Send Check Digit / DEFAULT

Don't Send Check Digit

EAN 8 - Continued

Start / End

Expand to EAN 13

Don't Expand to EAN 13 / DEFAULT

EAN 8 - Continued

Start / End

Disable EAN 8 Add-ons / DEFAULT

Enable EAN 8 2/5-Digit Add-ons

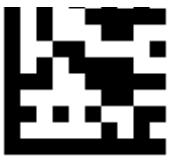
EAN 8 - Continued

Start / End

Enable EAN 8 2-Digit Add-ons

Enable EAN 8 5-Digit Add-ons

EAN 8 - Continued



Start / End

Disable EAN 8 2/5-Digit Add-ons Only / DEFAULT

Enable EAN 8 2/5-Digit Add-ons Only

Code 128

Start / End

Enable Code 128 / DEFAULT

Disable Code 128

Set Lengths for Code 128

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. For example, to decode only Code 128 symbols with 14 characters, scan **Code 128 One Discrete Length**, then scan **1** followed by **4**.

• 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. For example, to decode only Code 128 symbols containing either 2 or 14 characters, select **Code 128 Two Discrete Lengths**, then scan **0**, **2**, **1**, and then **4**.

• Length Within Range

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

Code 128 symbols containing between 4 and 12 characters, first scan **Code 128 Length Within Range**. Then scan **0**, **4**, **1,** and **2**.

• Any Length

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

Start / End

Code 128 - One Discrete Length

Code 128 - Two Discrete Lengths

Code 128 - Length Within Range

Code 128 - Any Length / DEFAULT

GS1–128 (UCC/EAN-128)

Start / End

Enable GS1-128 Application Identifier

Disable GS1-128 Application Identifier / DEFAULT

Code 39

Start / End

Enable Code 39 / DEFAULT

Disable Code 39

Code 39 - Continued

Start / End

Enable Code 39 Full ASCII

Disable Code 39 Full ASCII / DEFAULT

Transmit Start / Stop Characters

Don't Transmit Start / Stop Characters / DEFAULT

Code 39 - Continued

Start / End

Enable Check Digit Calculation

Disable Check Digit Calculation / DEFAULT

Enable Check Digit Transmission

Disable Check Digit Transmission / DEFAULT

Set Lengths for Code 39

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. For example, to decode only Code 39 symbols with 14 characters, scan **Code 39 One Discrete Length**, then scan **1** followed by **4**.

• 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. For example, to decode only Code 39 symbols containing either 2 or 14 characters, select **Code 39 Two Discrete Lengths**, then scan **0**, **2**, **1**, and then **4**.

• Length Within Range

Select this option to decode the symbol with a specific length range.

Select lengths using numeric bar codes in ASCII Code. For example, to decode Code 39 symbols containing between 4 and 12 characters, first scan **Code 39 Length Within Range**. Then scan **0**, **4**, **1,** and **2**.

• Any Length

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

Start / End

Code 39 - One Discrete Length

Code 39 - Two Discrete Lengths

Code 39 - Length Within Range

Code 39 - Any Length / DEFAULT

Code 93

Start / End

Enable Code 93 / DEFAULT

Disable Code 93

Set Lengths for Code 93

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. For example, to decode only Code 93 symbols with 14 characters, scan **Code 93 One Discrete Length**, then scan **1** followed by **4**.

• 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. For example, to decode only Code 93 symbols containing either 2 or 14 characters, select **Code 93 Two Discrete Lengths**, then scan **0**, **2**, **1**, and then **4**.

• Length Within Range

Select this option to decode the symbol with a specific length range.
Select lengths using numeric bar codes in ASCII Code. For example, to decode Code 93 symbols containing between 4 and 12 characters, first scan **Code 93 Length Within Range**. Then scan **0**, **4**, **1,** and **2**.

• Any Length

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

Start / End

Code 93 - One Discrete Length

Code 93 - Two Discrete Lengths

Code 93 - Length Within Range

Code 93 - Any Length / DEFAULT

Codabar

Start / End

Enable Codabar

Disable Codabar / DEFAULT

Codabar - Continued

Start / End

Enable Check Digit Verification

Disable Check Digit Verification / DEFAULT

Enable Check Digit Transmission

Disable Check Digit Transmission / DEFAULT

Codabar - Continued

Start / End

Transmit Start / Stop Characters

Don't Transmit Start / Stop Characters / DEFAULT

Set Lengths for Codabar

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. For example, to decode only Codabar symbols with 14 characters, scan **Codabar One Discrete Length**, then scan **1** followed by **4**.

• 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. For example, to decode only Codabar symbols containing either 2 or 14 characters, select **Codabar Two Discrete Lengths**, then scan **0**, **2**, **1**, and then **4**.

• Length Within Range

Select this option to decode the symbol with a specific length range.

Select lengths using numeric bar codes in ASCII Code. For example, to decode Codabar symbols containing between 4 and 12 characters, first scan **Codabar Length Within Range**. Then scan **0**, **4**, **1,** and **2**.

• Any Length

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

Start / End

Codabar - One Discrete Length

Codabar - Two Discrete Lengths

Codabar - Length Within Range

Codabar - Any Length / DEFAULT

Interleaved 2 of 5

Start / End

Enable Interleaved 2 of 5 / DEFAULT

Disable Interleaved 2 of 5

Interleaved 2 of 5 - Continued

Start / End

Enable Check Digit Calculation

Disable Check Digit Calculation / DEFAULT

Enable Check Digit Transmission

Disable Check Digit Transmission / DEFAULT

Set Lengths for Interleaved 2 of 5

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. For example, to decode only Interleaved 2 of 5 symbols with 14 characters, scan **Interleaved 2 of 5 One Discrete Length**, then scan **1** followed by **4**.

• 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. For example, to decode only Interleaved 2 of 5 symbols containing either 2 or 14 characters, select **Interleaved 2 of 5 Two Discrete Lengths**, then scan **0**, **2**, **1**, and then **4**.

• Length Within Range

Select this option to decode the symbol with a specific length range.

Select lengths using numeric bar codes in ASCII Code. For example, to decode Interleaved 2 of 5 symbols containing between 4 and 12 characters, first scan **Interleaved 2 of 5 Length Within Range**. Then scan **0**, **4**, **1,** and **2**.

● Any Length

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

Start / End

Interleaved 2 of 5 - One Discrete Length

Interleaved 2 of 5 - Two Discrete Lengths

Interleaved 2 of 5 - Length Within Range

Interleaved 2 of 5 - Any Length / DEFAULT

MSI

Start / End

Enable MSI

Disable MSI / DEFAULT

MSI - Continued

Start / End

Enable Check Digit Calculation / DEFAULT

Disable Check Digit Calculation

Enable Check Digit Transmission / DEFAULT

Disable Check Digit Transmission

MSI - Continued

Start / End

Check Digit Algorithm - MOD 10 / DEFAULT

Check Digit Algorithm - MOD 10 / MOD 10

Check Digit Algorithm - MOD 10 / MOD 11

Set Lengths for MSI

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. For example, to decode only MSI symbols with 14 characters, scan **MSI One Discrete Length**, then scan **1** followed by **4**.

• 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. For example, to decode only MSI symbols containing either 2 or 14 characters, select **MSI Two Discrete Lengths**, then scan **0**, **2**, **1**, and then **4**.

• Length Within Range

Select this option to decode the symbol with a specific length range.
Select lengths using numeric bar codes in ASCII Code. For example, to decode MSI symbols containing between 4 and 12 characters, first scan **MSI Length Within Range**. Then scan **0**, **4**, **1,** and **2**.

• Any Length

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

Start / End

MSI - One Discrete Length

MSI - Two Discrete Lengths

MSI - Length Within Range

MSI - Any Length / DEFAULT

Code 32

Start / End

Enable Code 32

Disable Code 32 / DEFAULT

Pharmacode

Start / End

Enable Pharmacode

Disable Pharmacode / DEFAULT

GS1 DataBar 14

Start / End

Enable GS1 DataBar 14 / DEFAULT

Disable DataBar 14

GS1 DataBar 14- Continued

Start / End

Transmit Application Identifier “01” / DEFAULT

Do Not Transmit Application Identifier “01”

GS1 DataBar 14 Stacked

Start / End

Enable GS1 DataBar 14 Stacked / DEFAULT

Disable GS1 DataBar 14 Stacked

GS1 DataBar 14 Stacked - Continued

Start / End

Transmit Application Identifier “01” / DEFAULT

Do Not Transmit Application Identifier “01”

GS1 DataBar Expanded

Start / End

Enable GS1 DataBar Expanded / DEFAULT

Disable GS1 DataBar Expanded

GS1 DataBar Expanded - Continued

Start / End

Transmit Application Identifier “01” / DEFAULT

Do Not Transmit Application Identifier “01”

GS1 DataBar Expanded Stacked

Start / End

Enable GS1 DataBar Expanded Stacked / DEFAULT

Disable GS1 DataBar Expanded Stacked

GS1 DataBar Expanded

Stacked - Continued

Start / End

Transmit Application Identifier “01” / DEFAULT

Do Not Transmit Application Identifier “01”

GS1 DataBar Limited

Start / End

Enable GS1 DataBar Limited / DEFAULT

Disable GS1 DataBar Limited

GS1 DataBar Limited -

Continued

Start / End

Transmit Application Identifier “01” / DEFAULT

Do Not Transmit Application Identifier “01”

GS1 Composite Component A

Start / End

Enable CC-A

Disable CC-A / DEFAULT

GS1 Composite Component B

Start / End

Enable CC-B

Disable CC-B / DEFAULT

GS1 Composite Component C

Start / End

Enable CC-C

Disable CC-C / DEFAULT

PDF417

Start / End

Enable PDF417 / DEFAULT

Disable PDF417

Micro PDF417

Start / End

Enable Micro PDF417

Disable Micro PDF417 / DEFAULT

Data Matrix

Start / End

Enable Data Matrix / DEFAULT

Disable Data Matrix

GS1 Data Matrix

Start / End

Enable GS1 Data Matrix

Disable GS1 Data Matrix

Application Identifier / DEFAULT

QR

Start / End

Enable QR / DEFAULT

Disable QR

QR - Continued

Start / End

Microsoft Office Word - UTF8 / Codepage Keyboard Output

Unicode - UTF8 Keyboard Output / DEFAULT

QR - Continued

Start / End

GB2312 - Microsoft Office Word

GB2312 - QR Keyboard Output

QR - Continued

Start / End

Big 5 - Microsoft Office Word

Big 5 - QR Keyboard Output

QR - Continued

Start / End

Shift JIS - Microsoft Office Word

Shift JIS - QR Keyboard Output

QR - Continued

Start / End

Thai - UTF8 QR Keyboard Output

QR - Continued

Start / End

Russian - UTF8 QR Keyboard Output

QR - Continued

Start / End

Turkish - UTF8 QR Keyboard Output

QR - Continued

Start / End

Italian - UTF8 QR Keyboard Output

QR - Continued

Start / End

German - UTF8 QR Keyboard Output

QR - Continued

Start / End

Arabic - UTF8 QR Keyboard Output

GS1 QR

Start / End

Enable GS1 QR Application Identifier

Disable GS1 QR Application Identifier / DEFAULT

Micro QR

Start / End

Enable Micro QR

Disable Micro QR / DEFAULT

Aztec

Start / End

Enable Aztec

Disable Aztec / DEFAULT

Maxicode

Start / End

Enable Maxicode

Disable Maxicode / DEFAULT

Data Editing

The scan data is transmitted as below format.

Prefix	AIM ID	Scan Data	Suffix

Prefix/Suffix

Six prefixes and/or suffixes can be appended to scan data for use in data editing.

Set a Prefix/Suffix for all codes :

<Scan the **Start** barcode.>

<Set **Prefix**> or <Set **Suffix**>

<Set **All Codes**>

<Set one code of **ASCII Codes** or **Direct Keys** >

<Scan the **End** barcode.>

Set two Prefixes/Suffixes for all codes :

<Scan the **Start** barcode.>

<Set **Prefix**> or <Set **Suffix**>

<Set **All Codes**>

<Set first code of **ASCII Codes** or **Direct Keys** >

<Set second code of **ASCII Codes** or **Direct Keys** >

<Scan the **End** barcode..>

Disable Prefixes/Suffixes for all codes :

<Scan the **Start** barcode.>

<Disable **Prefix**> or <Disable **Suffix**>

<Set **All Codes**>

<Scan the **End** barcode.>

Set Prefix

Start / End

Set Prefix

Disable Prefix / DEFAULT

Set Suffix

Start / End

Set Suffix

(DEFAULT CR for all codes)

Disable Suffix

Set Prefix/Suffix for Codes

Start / End

Set All Codes

Set UPC-A

Set UPC-E

Set Prefix/Suffix for Codes

Start / End

Set EAN 13

Set EAN 8

Set Code 128

Set Prefix/Suffix for Codes

Start / End

Set Code 39

Set Code 93

Set Codabar

Set Prefix/Suffix for Codes

Start / End

Set Interleaved 2 of 5

Set MSI

Set Code 32

Set Prefix/Suffix for Codes

Start / End

Set Pharmacode

Set GS1 DataBar 14

Set GS1 DataBar 14 Stacked

Set Prefix/Suffix for Codes

Start / End

Set GS1 DataBar Expanded

Set GS1 DataBar Expanded Stacked

Set GS1 DataBar Limited

Set Prefix/Suffix for Codes

Start / End

Set CC-A

Set CC-B

Set CC-C

Set Prefix/Suffix for Codes

Start / End

Set PDF417

Set Micro PDF417

Set Data Matrix

Set Prefix/Suffix for Codes

Start / End

Set QR

Set Micro QR

Set Aztec

AIM ID

Start / End

Disable Transmission of AIM ID / DEFAULT

Enable Transmission of AIM ID

Keyboard Caps Lock State

Start / End

Caps Lock Off / DEFAULT

Caps Lock On

Keyboard Function Key Mapping

Enable this to send the keys in bold **(see ASCII Codes**) in place of the standard key mapping. Table entries that do not have a bold entry remain the same whether or not this parameter is enabled

Start / End

Disable Function Key Mapping

Enable Function Key Mapping / DEFAULT

Keyboard Function Key Mapping - Continued

Start / End

Ctrl + ASCII Mode / DEFAULT

Control characters (0x00 - 0x1F) are sent as ASCII sequences.

Alt + Numeric Keypad Mode

Control characters (0x00 - 0x1F) are sent as Unicode code sequences.

Case Conversion

Start / End

Disable / DEFAULT

Convert to Upper Case

Convert to Lower Case

Note: Case Conversion does not affect AIM ID , Prefix , Suffix.

Control characters Conversion

Convert Control characters (0x00 - 0x1F) to other keystroke.

Set ASCII value 29 [GS] to #

1. Scan the **Start** barcode.
2. Scan the **GS Conversion** barcode.
3. Scan the **#** barcode from the **ASCII Code** in Appendix A.
4. Scan the **End** barcode.

Disable ASCII value 29 [GS] conversion

1. Scan the **Start** barcode.
2. Scan the **Disable GS Conversion** barcode.
4. Scan the **End** barcode.

Control characters Conversion - Continued

Start / End

NUL Conversion

Disable NUL Conversion

SOH Conversion

Disable SOH Conversion

STX Conversion

Disable STX Conversion

Enable ETX Conversion Disable ETX Conversion

Control characters Conversion - Continued

Start / End

EOT Conversion

Disable EOT Conversion

ENQ Conversion

Disable ENQ Conversion

ACK Conversion

Disable ACK Conversion

BEL Conversion

Disable BEL Conversion

Control characters Conversion - Continued

Start / End

BS Conversion

Disable BS Conversion

HT Conversion

Disable HT Conversion

LF Conversion

Disable LF Conversion

VT Conversion

Disable VT Conversion

Control characters Conversion - Continued

Start / End

FF Conversion

Disable FF Conversion

CR Conversion

Disable CR Conversion

SO Conversion

Disable SO Conversion

SI Conversion

Disable SI Conversion

Control characters Conversion - Continued

Start / End

DLE Conversion

Disable DLE Conversion

DC1 Conversion

Disable DC1 Conversion

DC2 Conversion

Disable DC2 Conversion

DC3 Conversion

Disable DC3 Conversion

Control characters Conversion - Continued

Start / End

DC4 Conversion

Disable DC4 Conversion

NAK Conversion

Disable NAK Conversion

SYN Conversion

Disable SYN Conversion

ETB Conversion

Disable ETB Conversion

Control characters Conversion - Continued

Start / End

CAN Conversion

Disable CAN Conversion

EM Conversion

Disable EM Conversion

SUB Conversion

Disable SUB Conversion

ESC Conversion

Disable ESC Conversion

Control characters Conversion - Continued

Start / End

FS Conversion

Disable FS Conversion

GS Conversion

Disable GS Conversion

RS Conversion

Disable RS Conversion

US Conversion

Disable US Conversion

Appendix A - ASCII Codes			
ASCII (hex)	Serial	Keystroke	
01	SOH	ENTER / **CTRL+A**	
02	STX	F11 / **CTRL+B**	

03	ETX	F12 / **CTRL+C**	
04	EOT	NULL / **CTRL+D**	
The keystroke in bold is sent only if **Function Key Mapping** is enabled. Otherwise, the unbolded keystroke is sent.			

ASCII Codes - Continued			
ASCII (hex)	Serial	Keystroke	
05	ENQ	NULL / **CTRL+E**	

06	ACK	NULL / **CTRL+F**	
07	BEL	NULL / **CTRL+G**	
08	BACKSPACE	BACKSPACE	

The keystroke in bold is sent only if **Function Key Mapping** is enabled. Otherwise, the unbolded keystroke is sent.

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	

09	TAB	TAB	
0A	LF	RIGHT / **CTRL+J**	
0B	VT	NULL / **CTRL+K**	
0C	FF	NULL / **CTRL+L**	

The keystroke in bold is sent only if **Function Key Mapping** is enabled. Otherwise, the unbolded keystroke is sent.

ASCII Codes - Continued			
ASCII (hex)	Serial	Keystroke	
0D	CR	ENTER	
0E	SO	INSERT / **CTRL+N**	
0F	SI	Page Up / **CTRL+O**	

10	DLE	Page Down / **CTRL+P**	
The keystroke in bold is sent only if **Function Key Mapping** is enabled. Otherwise, the unbolded keystroke is sent.			

ASCII Codes - Continued			
ASCII (hex)	Serial	Keystroke	
11	DC1	HOME / **CTRL+Q**	
12	DC2	LEFT / **CTRL+R**	

13	DC3	DWON / **CTRL+S**	
14	DC4	Up / **CTRL+T**	
The keystroke in bold is sent only if **Function Key Mapping** is enabled. Otherwise, the unbolded keystroke is sent.			

ASCII Codes - Continued			
ASCII (hex)	Serial	Keystroke	
15	NAK	F6 / **CTRL+U**	

16	SYN	F1 / **CTRL+V**	
17	ETB	F2 / **CTRL+W**	
18	CAN	F3 / **CTRL+X**	

The keystroke in bold is sent only if **Function Key Mapping** is enabled. Otherwise, the unbolded keystroke is sent.

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	

19	EM	F4 / **CTRL+Y**	
1A	SUB	F5 / **CTRL+Z**	
1B	ESC	ESC / **CTRL+[**	
1C	FS	F7 / **CTRL+**	
The keystroke in bold is sent only if **Function Key Mapping** is enabled. Otherwise, the unbolded keystroke is sent.			

ASCII Codes - Continued			
ASCII (hex)	Serial	Keystroke	
1D	GS	F8 / **CTRL+]**	
1E	RS	F9 / **CTRL+^**	
1F	US	F10 / **CTRL+_**	

20	SPACE	SPACE	

The keystroke in bold is sent only if **Function Key Mapping** is enabled. Otherwise, the unbolded keystroke is sent.

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	
21	!	!	
22	"	"	

23	#	#	
24	$	$	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	
25	%	%	

26	&	&	
27	'	'	
28	(	(	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	

29	)	)	
2A	*	*	
2B	+	+	
2C	,	,	

ASCII Codes - Continued			
ASCII (hex)	Serial	Keystroke	
2D	-	-	
2E	.	.	
2F	/	/	

30	0	0	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	
31	1	1	
32	2	2	

33	3	3	
34	4	4	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	
35	5	5	

36	6	6	
37	7	7	
38	8	8	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	

39	9	9	
3A	:	:	
3B	;	;	
3C	<	<	

ASCII Codes - Continued			
ASCII (hex)	Serial	Keystroke	
3D	=	=	
3E	>	>	
3F	?	?	

40	@	@	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	
41	A	A	
42	B	B	

43	C	C	
44	D	D	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	
45	E	E	

46	F	F	
47	G	G	
48	H	H	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	

49	I	I	
4A	J	J	
4B	K	K	
4C	L	L	

ASCII Codes - Continued			
ASCII (hex)	Serial	Keystroke	
4D	M	M	
4E	N	N	
4F	O	O	

50	P	P	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	
51	Q	Q	
52	R	R	

53	S	S	
54	T	T	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	
55	U	U	

56	V	V	
57	W	W	
58	X	X	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	

59	Y	Y	
5A	Z	Z	
5B	[	[	
5C	\	\	

ASCII Codes - Continued			
ASCII (hex)	Serial	Keystroke	
5D	]	]	
5E	^	^	
5F	_	_	

60	'	'	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	
61	a	a	
62	b	b	

63	c	c	
64	d	d	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	
65	e	e	

66	f	f	
67	g	g	
68	h	h	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	

69	i	i	
6A	j	j	
6B	k	k	
6C	l	l	

ASCII Codes - Continued			
ASCII (hex)	Serial	Keystroke	
6D	m	m	
6E	n	n	
6F	o	o	

70	p	p	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	
71	q	q	
72	r	r	

73	s	s	
74	t	t	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	
75	u	u	

76	v	v	
77	w	w	
78	x	x	

ASCII Codes - Continued

ASCII (hex)	Serial	Keystroke	

79	y	y	
7A	z	z	
7B	{	{	
7C	|	|	

ASCII Codes - Continued			
ASCII (hex)	Serial	Keystroke	
7D	}	}	
7E	~	~	

Appendix B - Direct Keys

F1

F2

F3

F4

Direct Keys - Continued

F5

F6

F7

F8

Direct Keys - Continued

F9

F10

F11

F12

Direct Keys - Continued

INSERT

DELETE

HOME

END

Direct Keys - Continued

Arrow Up

Arrow Down

Arrow Left

Arrow Right

Direct Keys - Continued

CTRL

ALT

SHIFT

Page Up

Direct Keys - Continued

Page Down

ALT+a

ALT+b

ALT+c

Direct Keys - Continued

ALT+d

ALT+e

ALT+f

ALT+g

Direct Keys - Continued

ALT+h

ALT+i

ALT+j

Ctrl+k

Direct Keys - Continued

ALT+l

ALT+m

ALT+n

ALT+o

Direct Keys - Continued

ALT+p

ALT+q

ALT+r

ALT+s

Direct Keys - Continued

ALT+t

ALT+u

ALT+v

ALT+w

Direct Keys - Continued

ALT+x

ALT+y

ALT+z

Appendix C - Digit Number

0

1

2

3

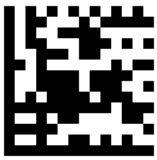
4

5

6

7

8 9



Output FW Version