



# MT6228

## Fixed Mount Scanner

### User's Manual V1.1



# Revision History

Version	Description	Date
V1.0	Initial Version	May 18, 2022
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# Chapter 1 System Settings

## Scan 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 scanner 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 scanner automatically starts one decode session after another. To suspend/resume barcode reading, simply press the trigger.

### **Pulse Mode:**

When the trigger is pulled and released, scanning is activated until a barcode is decoded or the decode session timeout expires.



Enter Programming Mode



Level Trigger Mode



Sense Mode (Image Change)



Continuous Mode \*\*



Pulse Mode

Exit Programming Mode





Enter Programming Mode

## 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.



Low Sensitivity



Medium Sensitivity \*\*



High Sensitivity

Exit Programming Mode





Enter Programming Mode

## Tuning Button

Scanning the **Off** barcode turn off the image tuning function.

Scanning the **On** barcode turn it on.



On \*\*



Off

Exit Programming Mode





Enter Programming Mode

## Aiming

**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.



Always On \*\*



Trigger



Off

Exit Programming Mode



# Illumination



Enter Programming Mode

## 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.



Trigger \*\*



Always On



Fade Up



Off

Exit Programming Mode





Enter Programming Mode

## Illumination Level

This parameter sets the brightness of illumination.



Minimum brightness



Intermediate brightness



Maximum brightness \*\*

Exit Programming Mode







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.



On \*\*



Off

Exit Programming Mode





Enter Programming Mode

## Good Read Beep Frequency



Extra Low - 800 Hz



Low - 1600 Hz



Medium - 2730 Hz \*\*



High - 4200 Hz

Exit Programming Mode



## 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.



Whole Area Decoding \*\*

Exit Programming Mode

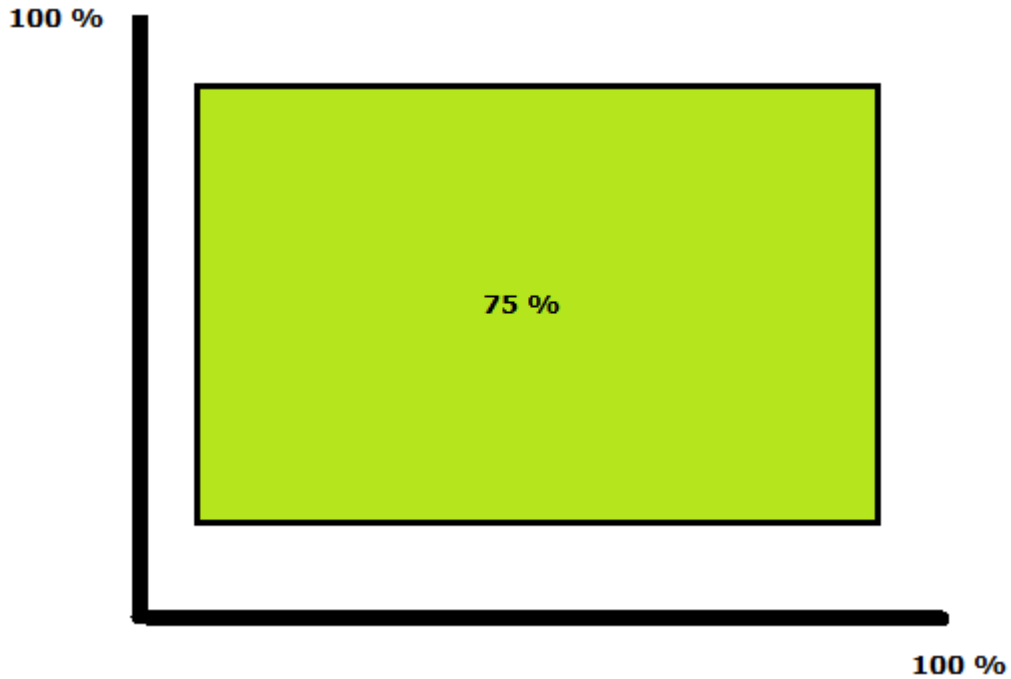




Enter Programming Mode

## Specific Area Decoding

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



75%

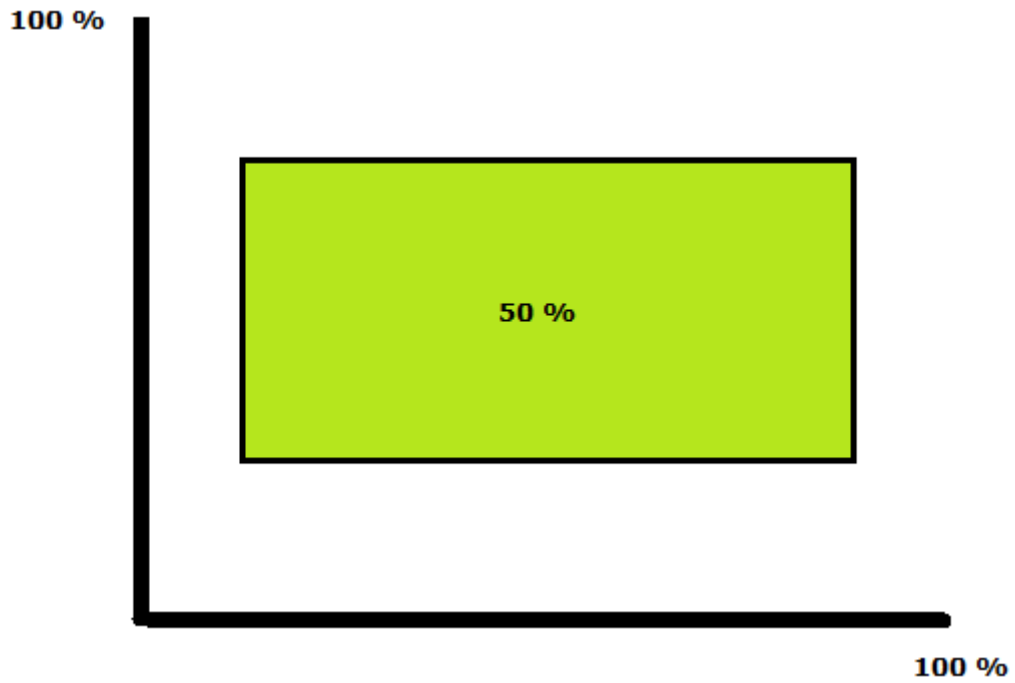
Exit Programming Mode





Enter Programming Mode

## Specific Area Decoding



50 %

Exit Programming Mode





Enter Programming Mode

## Specific Area Decoding



25 %

Exit Programming Mode





Enter Programming Mode

## 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.



Disable \*\*



2 Times



3 Times

Exit Programming Mode





Enter Programming Mode

## 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 3,000 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 Bar Codes in Appendix A.
4. Scan the numeric barcodes "0" barcode from Numeric Bar Codes in Appendix A.
5. Scan the numeric barcodes "0" barcode from Numeric Bar Codes in Appendix A.
6. Scan the numeric barcodes "0" barcode from Numeric Bar Codes in Appendix  
Scan the [Exit Programming Mode](#) barcode



Decoding Timeout (ms)

Exit Programming Mode







Enter Programming Mode

## 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 200 ms.

**Example: Set the Timeout between Decodes to 350 ms:**

1. Scan the [Enter Programming Mode](#) barcode
2. Scan the [Timeout between Decodes](#) barcode
3. Scan the numeric barcodes "3" barcode from Numeric Bar Codes in Appendix A.
4. Scan the numeric barcodes "5" barcode from Numeric Bar Codes in Appendix A.
5. Scan the numeric barcodes "0" barcode from Numeric Bar Codes in Appendix A.  
Scan the [Exit Programming Mode](#) barcode



Timeout between Decodes (ms)

Exit Programming Mode



# Chapter 2 Interface



Enter Programming Mode

## USB HID Keyboard

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.



USB HID Keyboard

Exit Programming Mode





Enter Programming Mode

## 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



Disable



Control-Key Mode\*\*



Alt + Unicode Mode

Exit Programming Mode





Enter Programming 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.



US ( English) \*\*



UK English



Brazil



Belgium

Exit Programming Mode





Enter Programming Mode



Bulgaria



Croatia



Czech



Czech (QWERTY)

Exit Programming Mode

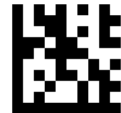




Enter Programming Mode



Denmark



France



Germany



Hungary

Exit Programming Mode





Enter Programming Mode



Italy



Japan



Norway



Portugal

Exit Programming Mode





Enter Programming Mode



Poland



Russia



Romania



Spain

Exit Programming Mode







Enter Programming Mode



Switzerland



Sweden



Slovak



Slovak (QWERTY)

Exit Programming Mode





Enter Programming Mode



Turkish Q



Turkish F



Vietnam

Exit Programming Mode





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

Exit Programming Mode





Enter Programming Mode



Korean , Code Page / Excel ; Notepad



Korean , Microsoft Office Word

Exit Programming Mode





Enter Programming Mode



SHIFT-JIS , Code Page / Excel ; Notepad



SHIFT-JIS , Microsoft Office Word

Exit Programming Mode





Enter Programming Mode



Thailand



Cyrillic



Turkish



Greek

Exit Programming Mode





Enter Programming Mode



West European Latin



Central and East European Latin



Hebrew



Vietnamese

Exit Programming Mode





Enter Programming Mode

## 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.



USB CDC \*\*

Exit Programming Mode







Enter Programming Mode

## RS-232

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



RS-232

Exit Programming Mode





Enter Programming Mode

## Baud Rate

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



9600 \*\*



19200



38400



57600



115200



230400

Exit Programming Mode





Enter Programming Mode

## Data Bits

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



7 Bit



8 Bit \*\*

Exit Programming Mode





Enter Programming Mode

## 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.



None \*\*



Odd Parity



Even Parity

Exit Programming Mode





Enter Programming Mode

## 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.



1 Stop Bit \*\*



2 Stop Bits

Exit Programming Mode



# Chapter 3 Symbologies

## Supported Symbologies

<b>UPC-A</b>	<b>Enable **</b>
<b>UPC-E</b>	<b>Enable **</b>
<b>EAN-8</b>	<b>Enable **</b>
<b>EAN-13</b>	<b>Enable **</b>
<b>Code 128 / GS1-128</b>	<b>Enable **</b>
<b>Code 39</b>	<b>Enable **</b>
Code 93	Disable
Code 32	Disable
Code 11	Disable
Codabar	Disable
Plessey	Disable
MSI	Disable
<b>Interleaved 2 of 5</b>	<b>Enable **</b>
IATA 2 of 5	Disable
Matrix 2 of 5	Disable
Straight 2 of 5	Disable

Pharmacode	Disable
GS1 DataBar 14	Disable
GS1 DataBar 14 Stacked	Disable
GS1 DataBar Expanded	Disable
GS1 DataBar Expanded Stacked	Disable
GS1 DataBar Limited	Disable
Composite Code-A	Disable
Composite Code-B	Disable
Composite Code-C	Disable
PDF417	Disable
Micro PDF417	Disable
<b>Data Matrix</b>	<b>Enable **</b>
<b>QR</b>	<b>Enable **</b>
Micro QR	Disable
Aztec	Disable
MaxiCode	Disable
DotCode	Disable



Enter Programming Mode

## Enable All Symbologies

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



Enable All Symbologies

Exit Programming Mode







Enter Programming Mode

## Disable All Symbologies

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



Disable All Symbologies

Exit Programming Mode





Enter Programming Mode

## 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

Exit Programming Mode





Enter Programming Mode

## 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

Exit Programming Mode





Enter Programming Mode

## UPC-A

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



Enable UPC-A \*\*



Disable UPC-A

Exit Programming Mode





Enter Programming Mode

## 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 \*\*



No Preamble

Exit Programming Mode





Enter Programming Mode

## 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

Exit Programming Mode

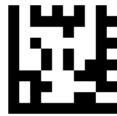




Enter Programming Mode

## Convert UPC-A to EAN-13

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



Convert UPC-A to EAN-13



Disable conversion \*\*

Exit Programming Mode





Enter Programming Mode

2-Digit / 5-Digit Add-On Code



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



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

Exit Programming Mode







Enter Programming Mode

## 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 \*\*

Exit Programming Mode





Enter Programming Mode

## UPC-E

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



Enable UPC-E \*\*



Disable UPC-E

Exit Programming Mode

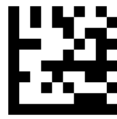




Enter Programming Mode

## 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 \*\*



No Preamble

Exit Programming Mode





Enter Programming Mode

## 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

Exit Programming Mode





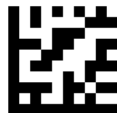
Enter Programming Mode

## Convert UPC-E to UPC-A

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



Convert UPC-E to UPC-A



Disable conversion \*\*

Exit Programming Mode





Enter Programming Mode

2-Digit / 5-Digit Add-On Code



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



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

Exit Programming Mode

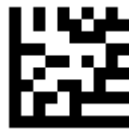




Enter Programming Mode

## 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 \*\*

Exit Programming Mode





Enter Programming Mode

## EAN-8

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



Enable EAN-8 \*\*



DisableEAN-8

Exit Programming Mode



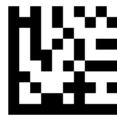




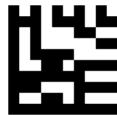
Enter Programming Mode

## 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

Exit Programming Mode





Enter Programming Mode

## Convert EAN-8 to EAN-13

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



Convert EAN-8 to EAN-13



Disable conversion \*\*

Exit Programming Mode





Enter Programming Mode

2-Digit / 5-Digit Add-On Code



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



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

Exit Programming Mode





Enter Programming Mode

## 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 \*\*

Exit Programming Mode





Enter Programming Mode

## EAN-13

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



Enable EAN-13 \*\*



Disable EAN-13

Exit Programming Mode

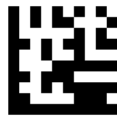




Enter Programming Mode

## 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

Exit Programming Mode





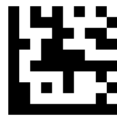
Enter Programming Mode

## Bookland EAN

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



Enable Bookland EAN



Disable Bookland EAN \*\*

Exit Programming Mode





Enter Programming Mode

## ISSN EAN

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



Enable ISSN EAN



Disable ISSN EAN \*\*

Exit Programming Mode







Enter Programming Mode

2-Digit / 5-Digit Add-On Code



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



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

Exit Programming Mode





Enter Programming Mode

## 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 \*\*

Exit Programming Mode





Enter Programming Mode

## 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

Exit Programming Mode



## 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 Bar Codes. .

### **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 Bar Codes.

### **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 Bar Codes.

### **Any Length:**

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



Enter Programming Mode



One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length \*\*

Exit Programming Mode





Enter Programming Mode

## Code 39

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



Enable Code 39 \*\*



DisableCode 39

Exit Programming Mode





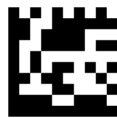
Enter Programming Mode

## 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



Disable Code 39 Full ASCII \*\*

Exit Programming Mode





Enter Programming Mode

## 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

Exit Programming Mode



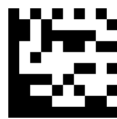




Enter Programming Mode

## Transmit Code 39 Start/Stop Character

Scan the appropriate barcode below to transmit the barcode data with or without the Code 39 Start/Stop Character.



Transmit Code 39 Start/Stop Character



Do Not Transmit Code 39 Start/Stop Character \*\*

Exit Programming Mode



## 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 Bar Codes. .

### **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 Bar Codes.

### **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 Bar Codes.

### **Any Length:**

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



Enter Programming Mode



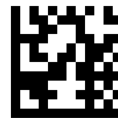
One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length \*\*

Exit Programming Mode





Enter Programming Mode

## 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 \*\*

Exit Programming Mode





Enter Programming Mode

## Code 93

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



Enable Code 93



Disable Code 93 \*\*

Exit Programming Mode



## 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 Bar Codes. .

### **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 Bar Codes.

### **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 Bar Codes.

### **Any Length:**

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



Enter Programming Mode



One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length \*\*

Exit Programming Mode





Enter Programming Mode

## Code 11

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



Enable Code 11



Disable Code 11 \*\*

Exit Programming Mode







Enter Programming Mode

## 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.



Disable \*\*



1-digit checksum checking



2-digit checksum checking

Exit Programming Mode





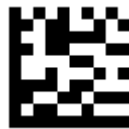
Enter Programming Mode

## 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

Exit Programming Mode



## 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 Bar Codes. .

### **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 Bar Codes.

### **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 Bar Codes.

### **Any Length:**

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



Enter Programming Mode



One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length \*\*

Exit Programming Mode





Enter Programming Mode

## Codabar

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



Enable Codabar



Disable Codabar \*\*

Exit Programming Mode





Enter Programming Mode

## 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.



Disable \*\*



Transmit Check Digit After Verification



Do Not Transmit Check Digit After  
Verification

Exit Programming Mode





Enter Programming Mode

## 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 \*\*

Exit Programming Mode



## 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 Bar Codes. .

### **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 Bar Codes.

### **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 Bar Codes.

### **Any Length:**

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





Enter Programming Mode



One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length \*\*

Exit Programming Mode





Enter Programming Mode

## Plessey

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



Enable Plessey



Disable Plessey \*\*

Exit Programming Mode



## 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 Bar Codes. .

### **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 Bar Codes.

### **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 Bar Codes.

### **Any Length:**

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



Enter Programming Mode



One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length \*\*

Exit Programming Mode





Enter Programming Mode

## MSI

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



Enable MSI



Disable MSI \*\*

Exit Programming Mode





Enter Programming Mode

## Transmit MSI Check Digit(s)

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



Transmit MSI Check Digit(s) \*\*



Do Not Transmit MSI Check Digit(s)

Exit Programming Mode





Enter Programming Mode

## 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.



Disable



One Check Character, MOD10 \*\*



Two Check Characters,  
MOD10/MOD10



Two Check Characters,  
MOD10/MOD11

Exit Programming Mode



## 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 Bar Codes. .

### **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 Bar Codes.

### **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 Bar Codes.

### **Any Length:**

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





Enter Programming Mode



One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length \*\*

Exit Programming Mode





Enter Programming Mode

## 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

Exit Programming Mode

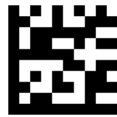




Enter Programming Mode

## 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.



Disable \*\*



Transmit Check Character After Verification

Exit Programming Mode



## Set Lengths for Interleaved 2 of 5

Set lengths for Interleaved 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 Interleaved 2 of 5 containing 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 Bar Codes. .

### **Two Discrete Lengths:**

Select this option to decode Interleaved 2 of 5 containing 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 Bar Codes.

### **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 5 containing between 3 and 12 characters, first scan **Length Within Range**. Then scan 0, 3, 1, and 2 in Appendix A, Numeric Bar Codes.

### **Any Length:**

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



Enter Programming Mode



One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length \*\*

Exit Programming Mode





Enter Programming Mode

## Matrix 2 of 5

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



Enable Matrix 2 of 5



Disable Matrix 2 of 5 \*\*

Exit Programming Mode



## 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 Bar Codes. .

### **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 Bar Codes.

### **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 Bar Codes.

### **Any Length:**

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



Enter Programming Mode



One Discrete Length



Two Discrete Lengths



Length Within Range



Any Length \*\*

Exit Programming Mode







Enter Programming Mode

## IATA 2 of 5

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



Enable IATA 2 of 5



Disable IATA 2 of 5 \*\*

Exit Programming Mode





Enter Programming Mode

## Straight 2 of 5

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



Enable Straight 2 of 5



Disable Straight 2 of 5 \*\*

Exit Programming Mode





Enter Programming Mode

## Pharmacode

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



Enable Pharmacode



Disable Pharmacode \*\*

Exit Programming Mode





Enter Programming Mode

## GS1 DataBar 14

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



Enable GS1 DataBar 14



Disable GS1 DataBar 14 \*\*

Exit Programming Mode





Enter Programming Mode

## 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 \*\*

Exit Programming Mode





Enter Programming Mode

## 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.



Transmit AI ( 01 ) Digit \*\*



Do Not Transmit AI ( 01 ) Digit

Exit Programming Mode





Enter Programming Mode

## GS1 DataBar Expanded

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



Enable GS1 DataBar Expanded



Disable GS1 DataBar Expanded \*\*

Exit Programming Mode





Enter Programming Mode

## 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 \*\*

Exit Programming Mode







Enter Programming Mode

## 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.



Transmit AI ( 01 ) Digit \*\*



Do Not Transmit AI ( 01 ) Digit

Exit Programming Mode





Enter Programming Mode

## GS1 DataBar Limited

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



Enable GS1 DataBar Limited\*\*



Disable GS1 DataBar Limited

Exit Programming Mode





Enter Programming Mode

## 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 AI ( 01 ) Digit \*\*



Do Not Transmit AI ( 01 ) Digit

Exit Programming Mode





Enter Programming Mode

## PDF417

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



Enable PDF417



Disable PDF417 \*\*

Exit Programming Mode





Enter Programming Mode

## Micro PDF417

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



Enable Micro PDF417



Disable Micro PDF417 \*\*

Exit Programming Mode





Enter Programming Mode

## Data Matrix

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



Enable Data Matrix \*\*



Disable Data Matrix

Exit Programming Mode





Enter Programming Mode

## Rectangular Data Matrix

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



Enable Rectangular Data Matrix \*\*



Disable Rectangular Data Matrix

Exit Programming Mode



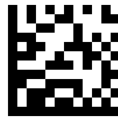


Enter Programming Mode

## 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 \*\*



Non-Mirrored Only

Exit Programming Mode







Enter Programming Mode

## QR

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



Enable QR \*\*



Disable QR

Exit Programming Mode





Enter Programming Mode

## 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.



Mirrored Auto detect \*\*



Non-Mirrored Only

Exit Programming Mode





Enter Programming Mode

## Micro QR

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



Enable Micro QR



Disable Micro QR \*\*

Exit Programming Mode





Enter Programming Mode

## Aztec

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



Enable Aztec



Disable Aztec \*\*

Exit Programming Mode



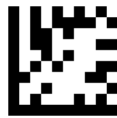


Enter Programming Mode

## 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.



Mirrored Auto detect \*\*



Non-Mirrored Only

Exit Programming Mode





Enter Programming Mode

## MaxiCode

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



Enable MaxiCode



Disable MaxiCode \*\*

Exit Programming Mode





Enter Programming Mode

## DotCode

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



Enable DotCode



Disable DotCode \*\*

Exit Programming Mode



# Chapter 4 Prefix & Suffix



Enter Programming Mode

## AIM ID

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



Disable AIM ID\*\*



Enable AIM ID



Enable OEM ID

Exit Programming Mode





# Prefix

## 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. Prefix can be 8 characters at most.

### 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 Bar Codes in Appendix D
4. Scan the ASCII barcodes "B" barcode from Numeric Bar Codes in Appendix D
5. Scan the ASCII barcodes "C" barcode from Numeric Bar Codes in Appendix D
6. Scan the ASCII barcodes "D" barcode from Numeric Bar Codes in Appendix D
7. Scan the **Exit Programming Mode** barcode

### Example: Disable Prefix for all symbologies

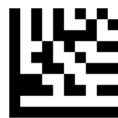
1. Scan the **Enter Programming Mode** barcode
2. Scan the **Dsiable Prefix for All Symbologies** barcode
3. Scan the **Exit Programming Mode** barcode



Enter Programming Mode



Disable Prefix for All Symbologies \*\*



Set Prefix for All Symbologies

Exit Programming Mode



# Symbology Prefix

If **Symbology Prefix** is enabled, you are allowed to append to the data a user-defined prefix for a specific symbology. Prefix can be 8 characters at most.

## 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 Bar Codes in Appendix B
4. Scan the numeric barcodes "8" barcode from Numeric Bar Codes in Appendix A
5. Scan the numeric barcodes "0" barcode from Numeric Bar Codes 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 Bar Codes in Appendix B.
4. Scan the **Exit Programming Mode** barcode



Enter Programming Mode



Disable Symbology Prefix



Set Symbology Prefix

Exit Programming Mode



# Suffix

## 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. Suffix can be 8 characters at most.

### 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 Bar Codes in Appendix C
4. Scan the ASCII barcodes "Y" barcode from Numeric Bar Codes in Appendix C
5. Scan the ASCII barcodes "Z" barcode from Numeric Bar Codes 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 **Disable Suffix for All Symbologies** barcode
3. Scan the **Exit Programming Mode** barcode



Enter Programming Mode



Disable Suffix for All Symbologies \*\*



Set Suffix for All Symbologies

Exit Programming Mode



# Symbology Suffix

If **Symbology Suffix** is enabled, you are allowed to append to the data a user-defined suffix for a specific symbology . Suffix can be 8 characters at most.

## 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 Bar Codes in Appendix B
4. Scan the ASCII barcodes **"@"** barcode from ASCII Bar Codes in Appendix C
5. Scan the numeric barcodes **"1"** barcode from Numeric Bar Codes 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 Bar Codes in Appendix B

Scan the **Exit Programming Mode** barcode



Enter Programming Mode



Disable Symbology Suffix



Set Symbology Suffix

Exit Programming Mode







Enter Programming Mode

## 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.



None



Set Terminating Character to CR  
(0x0D) \*\*



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



Set Terminating Character to TAB  
(0x09)

Exit Programming Mode



# Chapter 5 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

Exit Programming Mode





Enter Programming Mode

## Case Conversion

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



No Case Conversion \*\*



Upper Case



Lower Case

Exit Programming Mode



# 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 Bar Codes 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



Enter Programming Mode



Disable GS Code Conversion \*\*



Set GS (0x1D) to Other ASCII Code

Exit Programming Mode



# Truncate Data

## 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

Scan the [Enter Programming Mode](#) barcode

Scan the [Truncate Leading Data](#) barcode

Scan the numeric barcodes "8" barcode from Numeric Bar Codes in Appendix

Scan the [Exit Programming Mode](#) barcode

### Example: Disable Truncate Leading Data

Scan the [Enter Programming Mode](#) barcode

Scan the [Disable Truncate Leading Data](#) barcode

Scan the [Exit Programming Mode](#) barcode



Enter Programming Mode



Disable Truncate Leading Data \*\*



Truncate Leading Data

Exit Programming Mode



# 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 2 characters of ending data

Scan the [Enter Programming Mode](#) barcode

Scan the [Truncate Ending Data](#) barcode

Scan the numeric barcodes "2" barcode from Numeric Bar Codes in Appendix

Scan the [Exit Programming Mode](#) barcode

## Example: Disable Truncate Ending Data

Scan the [Enter Programming Mode](#) barcode

Scan the [Disable Truncate Ending Data](#) barcode

Scan the [Exit Programming Mode](#) barcode





Enter Programming Mode



Disable Truncate Ending Data \*\*



Truncate Ending Data

Exit Programming Mode



# Chapter 6 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

Exit Programming Mode





Enter Programming Mode

## 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

Exit Programming Mode



# Appendix A - Numeric Bar Codes



0



1



2



3



4



5



6



7



8



9

# Appendix B - Symbologies Bar Codes



UPC-A



UPC-E



EAN-8



EAN-13



Code 128



Code 39



Code 93



Code 32

# Symbologies Bar Codes -Continued



Code 11



Codabar



Plessey



MSI



Interleaved 2 of 5



IATA 2 of 5



Matrix 2 of 5



Straight 2 of 5

# Symbologies Bar Codes -Continued



Pharmacode



GS1 DataBar 14



GS1 DataBar Expanded



GS1 DataBar Limited



GS1 DataBar 14 Stacked



GS1 DataBar Expanded Stacked



Composite Code-A



Composite Code-B

# Symbologies Bar Codes -Continued



Composite Code-C



PDF417



Micro PDF417



Data Matrix



QR



Micro QR





Aztec











MaxiCode











# Appendix C - ASCII Code Bar Codes





HEX	Decimal	ASCII	Function Key Mapping		
			Disable	Control-Key	Alt+Unicode
00 (NUL)	0	 NUL	Disable	Ctrl+@	Alt + 000
01 (SOH)	1	 SOH	Home	Ctrl+A	Alt + 001
02 (STX)	2	 STX	End	Ctrl+B	Alt + 002
03 (ETX)	3	 ETX	Up Arrow	Ctrl+C	Alt + 003





HEX	Decimal	ASCII	Function Key Mapping		
			Disable	Control-Key	Alt+Unicode
04 (EOT)	4	 EOT	Down Arrow	Ctrl+D	Alt + 004
05 (ENQ)	5	 ENQ	Left Arrow	Ctrl+E	Alt + 005
06 (ACK)	6	 ACK	Right Arrow	Ctrl+F	Alt + 006
07 (BEL)	7	 BEL	Null	Ctrl+G	Alt + 007





HEX	Decimal	ASCII	Function Key Mapping		
			Disable	Control-Key	Alt+Unicode
08	8	 BS	Backspace	Backspace	Alt + 008
09	9	 TAB	TAB	TAB	Alt + 009
0A (LF)	10	 LF	Null	Ctrl+J	Alt + 010
0B (VT)	11	 VT	Null	Ctrl+K	Alt + 011

HEX	Decimal	ASCII	Function Key Mapping		
			Disable	Control-Key	Alt+Unicode
0C (FF)	12	 FF	Null	Ctrl+L	Alt + 012
0D (CR)	13	 CR	Enter	Enter	Enter
0E (SO)	14	 SO	Page Up	Ctrl+N	Alt + 014
0F (SI)	15	 SI	Page Down	Ctrl+O	Alt + 015





HEX	Decimal	ASCII	Function Key Mapping		
			Disable	Control-Key	Alt+Unicode
10 (DLE)	16	 DLE	F11	Ctrl+P	Alt + 016
11 (DC1)	17	 DC1	Null	Ctrl+Q	Alt + 017
12 (DC2)	18	 DC2	Null	Ctrl+R	Alt + 018
13 (DC3)	19	 DC3	Null	Ctrl+S	Alt + 019





HEX	Decimal	ASCII	Function Key Mapping		
			Disable	Control-Key	Alt+Unicode
14 (DC4)	20	 DC4	Null	Ctrl+T	Alt + 020
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

HEX	Decimal	ASCII	Function Key Mapping		
			Disable	Control-Key	Alt+Unicode
18 (CAN)	24	 CAN	F3	Ctrl+X	Alt + 024
19 (CAN)	25	 EM	F4	Ctrl+Y	Alt + 025
1A (SUB)	26	 SUB	F5	Ctrl+Z	Alt + 026
1B (ESC)	27	 ESC	F6	Ctrl+[	Alt + 027





HEX	Decimal	ASCII	Function Key Mapping		
			Disable	Control-Key	Alt+Unicode
1C (FS)	28	 FS	F7	Ctrl+\	Alt + 028
1D (GS)	29	 GS	F8	Ctrl+]	Alt + 029
1E (US)	30	 RS	F9	Ctrl+^	Alt + 030
1F (US)	31	 US	F10	Ctrl+_	Alt + 031











HEX	Decimal	ASCII	
20	32	SPACE	
21	33	!	
22	34	"	
23	35	#	





HEX	Decimal	ASCII	
24	36	\$	
25	37	%	
26	38	&	
27	39	'	





HEX	Decimal	ASCII	
28	40	(	
29	41	)	
2A	42	*	
2B	43	+	

HEX	Decimal	ASCII	
2C	44	,	
2D	45	-	
2E	46	.	
2F	47	/	





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





HEX	Decimal	ASCII	
34	52	4	
35	53	5	
36	54	6	
37	55	7	





HEX	Decimal	ASCII	
38	56	8	
39	57	9	
3A	58	:	
3B	59	;	



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











HEX	Decimal	ASCII	
40	64	@	
41	65	A	
42	66	B	
43	67	C	





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





HEX	Decimal	ASCII	
48	72	H	
49	73	I	
4A	74	J	
4B	75	K	

HEX	Decimal	ASCII	
4C	76	L	
4D	77	M	
4E	78	N	
4F	79	O	





HEX	Decimal	ASCII	
50	80	P	
51	81	Q	
52	82	R	
53	83	S	





HEX	Decimal	ASCII	
54	84	T	
55	85	U	
56	86	V	
57	87	W	





HEX	Decimal	ASCII	
58	88	X	
59	89	Y	
5A	90	Z	
5B	91	[	





HEX	Decimal	ASCII	
5C	92	\	
5D	93	]	
5E	94	^	
5F	95	_	











HEX	Decimal	ASCII	
60	96	,	
62	97	a	
62	98	b	
63	99	c	





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





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

HEX	Decimal	ASCII	
6C	108	l	
6D	109	m	
6E	110	n	
6F	111	o	

HEX	Decimal	ASCII	
70	112	p	
71	113	q	
72	114	r	
73	115	s	

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

HEX	Decimal	ASCII	
78	120	x	
79	121	y	
7A	122	z	
7B	123	{	

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



# Appendix D - Function Key Bar Codes



Insert



Delete



Home



End



Up Arrow



Down Arrow



Left Arrow



Right Arrow



Shift



ESC



Ctrl



Alt



Page Up



Page Down



F1



F2



F3



F4



F5



F6



F7



F8



F9



F10



F11



F12

# Appendix E - AIM ID Table

Symbology	OEM ID	AIM ID
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	A
Code 11	O	H
Codabar	N	F
Plessey	P	P
MSI / Plessey	a	M
Interleaved 2 of 5	l	l
IATA 2 of 5	Z	R
Matrix 2 of 5	G	X
Straight 2 of 5	S	S
Pharmacode	H	X
GS1 DataBar 14	RS	e
GS1 DataBar Expanded	RX	e
GS1 DataBar Limited	RL	e
Composite CC-A	m	e
Composite CC-B	n	e
Composite 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