



Atlantis



# **SPEEDSCAN**

## **USER MANUAL**

**A08-LD1830-2D-W**

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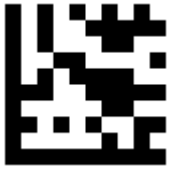
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# Factory Defaults



**Start / End**

---

Scanning the following barcode can restore the scanner to the factory defaults



Factory Defaults



# Basic Settings



Start / End

---

## Scan Mode



Trigger Mode / DEFAULT



Sense Mode



Continuous Mode



Start / End

---

# Sense Mode Sensitivity



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.



Start / End

---

## Decode Redundancy - Continued



1 time / **DEFAULT**



2 times



3 times

# Decode Area

The scanner offers four settings of decode area.

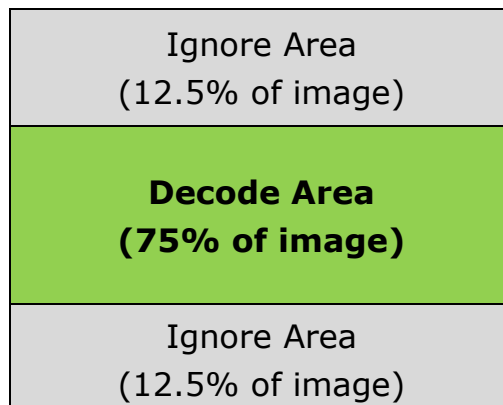
## Full size of image

To decode the barcode within full size of image



## 75% of image

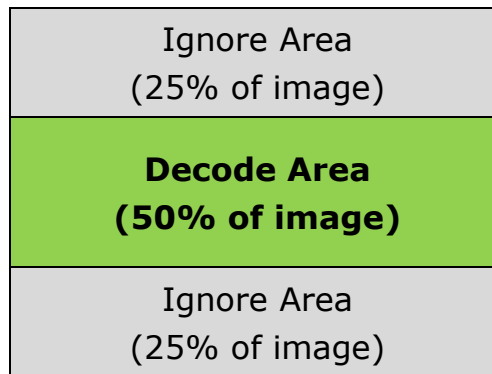
To decode the barcode within 75% of image



## Decode Area - Continued

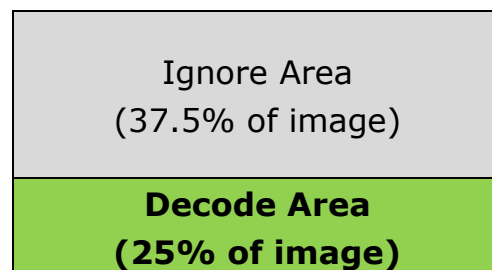
50% of image

To decode the barcode within 50% of image



25% of image

To decode the barcode within 25% of image



Ignore Area  
(37.5% of image)



Start / End



## Decode Area - Continued



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 1,500 ms

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 **Continuous** mode.

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 1000 ms.

- **Ignore Same Code**

Time to ignore the barcode 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.



**Start / End**

---

## Time to Read Same Barcode - Continued





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 **Trigger** mode. It is programmable in 1 ms 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



Start / End

---

# Illumination Mode



Disable



**Enable by trigger /  
DEFAULT**



Always On



Fade Up



**Start / End**

---

# Illumination Level



Minimum



Medium



**Maximum / DEFAULT**



**Start / End**

---

# Aiming Pattern



Disable



**Enable by trigger /  
DEFAULT**



Always On

## Symbologies



# Enable/Disable All Symbologies



Enable All Symbologies



Disable All Symbologies



Start / End

---



---

# Enable 1D/2D Symbologies



Enable 1D Symbologies



Enable 2D Symbologies

## UPC-A



Start / End

---

## Enable/Disable UPC-A



Enable UPC-A / DEFAULT



Disable UPC-A



Start / End

---

## Number System Transmission



**Enable Number System Transmission / DEFAULT**



Disable Number System Transmission



Start / End

---

## Check Digit Transmission



Send Check Digit / **DEFAULT**



Don't Send Check Digit



Start / End

---

## Expand UPC-A to EAN13



Don't Expand to EAN13 / DEFAULT



Expand to EAN13



Start / End

---

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



**Disable UPC-A Add-ons / DEFAULT**



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



Start / End

---

## UPC-A 2/5-Digit Add-ons - Continued



Enable UPC-A 2-Digit Add-ons



Enable UPC-A 5-Digit Add-ons



Start / End

---

## UPC-A 2/5-Digit Add-ons - Continued

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



**Disable UPC-A Add-ons Only / DEFAULT**



Enable UPC-A Add-ons Only



# UPC-E



Start / End

---

## Enable/Disable UPC-E



**Enable UPC-E / DEFAULT**



Disable UPC-E



Start / End

---

## Number System Transmission



**Enable Number System Transmission / DEFAULT**



Disable Number System Transmission



Start / End

---

## Check Digit Transmission



Send Check Digit / **DEFAULT**



Don't Send Check Digit



Start / End

---

## Expand UPC-E to UPC-A



**Don't Expand to UPC-A / DEFAULT**



Expand to UPC-A



Start / End

---

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



**Disable UPC-E Add-ons / DEFAULT**



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



Start / End

---

## UPC-E 2/5-Digit Add-ons - Continued



Enable UPC-E 2-Digit Add-ons



Enable UPC-E 5-Digit Add-ons



Start / End

---

## UPC-E 2/5-Digit Add-ons - Continued

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



**Disable UPC-E Add-ons Only / DEFAULT**



Enable UPC-E Add-ons Only

# EAN 13



Start / End

---

## Enable/Disable EAN 13



Enable EAN 13 / DEFAULT



Disable EAN 13





Start / End

---

## Check Digit Transmission



Send Check Digit / DEFAULT



Don't Send Check Digit



Start / End

---

## ISBN



Disable ISBN / DEFAULT



Enable ISBN



Start / End

---

## EAN 13 2/5-Digit Add-ons



**Disable EAN 13 Add-ons / DEFAULT**



Enable EAN 13 2/5-Digit Add-ons



Start / End

---

## EAN 13 2/5-Digit Add-ons - Continued



Enable EAN 13 2-Digit Add-ons



Enable EAN 13 5-Digit Add-ons



Start / End

---

## EAN 13 2/5-Digit Add-ons - Continued

When **EAN 13 Add-ons Only** is selected, the scanner will only read UPC-A barcodes that contain add-on codes.



**Disable EAN 13 Add-ons Only / DEFAULT**



Enable EAN 13 Add-ons Only

# EAN 8



Start / End

---

**Enable/Disable EAN 8**



**Enable EAN 8 / DEFAULT**



Disable EAN 8



Start / End

---

## Check Digit Transmission



Send Check Digit / DEFAULT



Don't Send Check Digit



Start / End

---

## Expand EAN 8 to EAN 13



**Don't Expand to EAN 13 / DEFAULT**



Expand to EAN 13





Start / End

---

## EAN 8 2/5-Digit Add-ons



**Disable EAN 8 Add-ons / DEFAULT**



Enable EAN 8 2/5-Digit Add-ons



**Start / End**

---

## **EAN 8 2/5-Digit Add-ons - Continued**



Enable EAN 8 2-Digit Add-ons



Enable EAN 8 5-Digit Add-ons



Start / End

---

## EAN 8 2/5-Digit Add-ons - Continued

When **EAN 8 Add-ons Only** is selected, the scanner will only read UPC-A barcodes that contain add-on codes.



**Disable EAN 8 Add-ons Only / DEFAULT**



Enable EAN 8 Add-ons Only

# Code 128 / GS1-128



Start / End

---

**Enable/Disable Code 128 / GS1-128**



**Enable Code 128 / GS1-128 / DEFAULT**



Disable Code 128 / GS1-128



Start / End

---

## GS1-128 AIM ID



Transmit GS1-128 AIM ID



**Do Not Transmit GS1-128 AIM ID / DEFAULT**

# 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

---

## Set Lengths for Code 128 - Continued



One Discrete Length



Two Discrete Lengths



Length Within Range



**Any Length / DEFAULT**

# Code 39



Start / End

---

## Enable/Disable Code 39



Enable Code 39 / DEFAULT



Disable Code 39





Start / End

---

## Code 39 Full ASCII



**Disable Code 39 Full ASCII / DEFAULT**



Enable Code 39 Full ASCII



Start / End

---

## Check Character Calculation



**Disable Check Char Calculation / DEFAULT**



Enable Check Char Calculation



Start / End

---

## Check Character Transmission



**Disable Check Char Transmission / DEFAULT**



Enable Check Char Transmission



**Start / End**

---

## **Start / Stop Characters**



**Don't Transmit Start / Stop Characters / DEFAULT**



Transmit Start / Stop Characters

# 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

---

## Set Lengths for Code 39 - Continued



One Discrete Length



Two Discrete Lengths



Length Within Range



**Any Length / DEFAULT**

# Code 32



Start / End

---

## Enable/Disable Code 32



Enable Code 32



**Disable Code 32 / DEFAULT**

# Code 93



Start / End

---

## Enable/Disable Code 93



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

---

## Set Lengths for Code 93 - Continued



One Discrete Length



Two Discrete Lengths



Length Within Range



**Any Length / DEFAULT**

# Pharmacode



Start / End

---

## Enable/Disable Pharmacode



Enable Pharmacode



**Disable Pharmacode / DEFAULT**

# Codabar



Start / End

---

**Enable/Disable Codabar**



**Enable Codabar / DEFAULT**



Disable Codabar



Start / End

---

## Check Character Verification



**Disable Check Char Verification / DEFAULT**



Enable Check Char Verification



Start / End

---

## Check Character Transmission



**Disable Check Char Transmission / DEFAULT**



Enable Check Char Transmission



Start / End

---

## Start / Stop Characters



Transmit Start / Stop Characters  
(ABCD / ABCD)



**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

---

## Set Lengths for Codabar - Continued



One Discrete Length



Two Discrete Lengths



Length Within Range



**Any Length / DEFAULT**

# MSI



Start / End

---

## Enable/Disable MSI



Enable MSI



**Disable MSI / DEFAULT**



Start / End

---

## Check Character Calculation



**Enable Check Char Calculation / DEFAULT**



Disable Check Char Calculation



Start / End

---

## Check Character Transmission



**Enable Check Char Transmission / DEFAULT**



Disable Check Char Transmission



Start / End

---

## Check Character Algorithm



**MOD 10 / DEFAULT**



MOD 10 / MOD 10



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

---

## Set Lengths for MSI - Continued



One Discrete Length



Two Discrete Lengths



Length Within Range



**Any Length / DEFAULT**

# Interleaved 2 of 5



Start / End

---

**Enable/Disable Interleaved 2 of 5**



**Enable Interleaved 2 of 5 / DEFAULT**



Disable Interleaved 2 of 5





Start / End

---

## Check Character Calculation



**Disable Check Char Calculation / DEFAULT**



Enable Check Char Calculation



Start / End

---

## Check Character Transmission



**Disable Check Char Transmission / DEFAULT**



Enable Check Char Transmission

# 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

---

## Set Lengths for Interleaved 2 of 5 - Continued



One Discrete Length



Two Discrete Lengths



Length Within Range



**Any Length / DEFAULT**

# GS1 DataBar 14



Start / End

---

## Enable/Disable GS1 DataBar 14



**Enable GS1 DataBar 14 / DEFAULT**



Disable DataBar 14



Start / End

---

## Application Identifier Transmission



**Enable Application Identifier "01" Transmission/ DEFAULT**



Disable Application Identifier "01" Transmission

# GS1 DataBar 14 Stacked



Start / End

---

**Enable/Disable GS1 DataBar 14 Stacked**



**Enable GS1 DataBar 14 Stacked / DEFAULT**



Disable GS1 DataBar 14 Stacked



Start / End

---

## Application Identifier Transmission



**Enable Application Identifier "01" Transmission/ DEFAULT**



Disable Application Identifier "01" Transmission



# GS1 DataBar Expanded



Start / End

---

## Enable/Disable GS1 DataBar Expanded



**Enab GS1 DataBar Expanded / DEFAULT**



Disable GS1 DataBar Expanded



Start / End

---

## Application Identifier Transmission



**Enable Application Identifier "01" Transmission/ DEFAULT**



Disable Application Identifier "01" Transmission

# GS1 DataBar Expanded Stacked



Start / End

---

**Enable/Disable GS1 DataBar Expanded Stacked**



**Enable GS1 DataBar Expanded Stacked / DEFAULT**



Disable GS1 DataBar Expanded Stacked



Start / End

---

## Application Identifier Transmission



**Enable Application Identifier "01" Transmission/ DEFAULT**



Disable Application Identifier "01" Transmission

# GS1 DataBar Limited



Start / End

---

**Enable/Dsiable GS1 DataBar Limited**



**Enable GS1 DataBar Limited / DEFAULT**



Disable GS1 DataBar Limited



Start / End

---

## Application Identifier Transmission



**Enable Application Identifier "01" Transmission/ DEFAULT**



Disable Application Identifier "01" Transmission

# GS1 Composite Component A



Start / End

---

## Enable/Disable GS1 Composite Component A



Enable CC-A



**Disable CC-A / DEFAULT**

# GS1 Composite Component B



Start / End

---

## Enable/Disable GS1 Composite Component B



Enable CC-B



**Disable CC-B / DEFAULT**



# GS1 Composite Component C



Start / End

---

## Enable/Disable GS1 Composite Component C

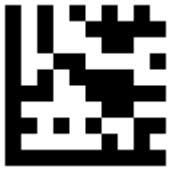


Enable CC-C



**Disable CC-C / DEFAULT**

# PDF417



Start / End

---

## Enable/Disable PDF417



Enable PDF417 / DEFAULT



Disable PDF417

# Micro PDF417



Start / End

---

## Enable/Disable Micro PDF417



Enable Micro PDF417



**Disable Micro PDF417 / DEFAULT**

# Data Matrix



Start / End

---

## Enable/Disable Data Matrix



Enable Data Matrix / DEFAULT



Disable Data Matrix



Start / End

---

## GS1 Data Matrix AIM ID



Transmit GS1 Data Matrix AIM ID



**Do Not Transmit GS1 Data Matrix AIM ID / DEFAULT**

# QR



Start / End

---

## Enable/Disable QR



Enable QR / DEFAULT



Disable QR



Start / End

---

## GS1 QR AIM ID



Transmit GS1 QR AIM ID



**Do Not Transmit GS1 QR AIM ID / DEFAULT**

# Micro QR



Start / End

---

## Enable/Disable Micro QR



Enable Micro QR



Disable Micro QR / DEFAULT



# Aztec



Start / End

---

## Enable/Disable Aztec



Enable Aztec



Disable Aztec / DEFAULT

# MaxiCode



Start / End

---

## Enable/Disable MaxiCode



Enable MaxiCode



Disable MaxiCode / DEFAULT

# DotCode



Start / End

---

## Enable/Disable DotCode



Enable DotCode



**Disable DotCode / DEFAULT**



Start / End

---

## GS1 DotCode AIM ID



Transmit GS1 DotCode AIM ID



**Do Not Transmit GS1 DotCode AIM ID / DEFAULT**

# Data Editing

## Data Format

The scan data is transmitted as below format.

<b>Prefix</b>	<b>AIM ID</b>	<b>Scan Data</b>	<b>Suffix</b>
---------------	---------------	------------------	---------------

### Prefix/Suffix

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

#### Example:

#### Set two Prefixes/Suffixes for all codes

<Enter programming Mode>  
<Set Prefix> or <Set Suffix>  
<Set All Codes>  
<Set first code of **ASCII Codes** >  
<Set second code of **ASCII Codes** >  
<Exit programming Mode>

#### Disable Prefixes/Suffixes for all codes

<Enter programming Mode>  
<Disable Prefix> or <Disable Suffix>  
<Set All Codes>  
<Exit programming Mode>



**Start / End**

---

## **Set Prefix - Continued**



Set Prefix



**Disable Prefix / DEFAULT**



Start / End

---

## Set Suffix - Continued



Set Suffix  
(Default CR for all codes)



Disable Suffix

## Truncate Data

This parameter sets the number of leading or ending data to be truncated. It is programmable in 1 increment from 1 to 99 characters. The default setting is 0.

### Truncate 5 characters of leading for all codes

1. Scan the **Start** barcode.
2. Scan the **Truncate Leading** barcode.
2. Scan the **All Codes** barcode.
3. Scan the "5" barcode from the **Digit Number** in Appendix C.
4. Scan the **End** barcode.

### Truncate 8 characters of Leading for Data Matrix

1. Scan the **Start** barcode.
2. Scan the **Truncate Leading** barcode.
2. Scan the **Data Matrix** barcode.
3. Scan the "8" barcode from the **Digit Number** in Appendix C.
4. Scan the **End** barcode.

### Truncate 10 characters of Ending for QR

1. Scan the **Start** barcode.
2. Scan the **Truncate Leading** barcode.
2. Scan the **QR** barcode.
3. Scan the "1" and "0" barcodes from the **Digit Number** in Appendix C.



4. Scan the **End** barcode.



**Start / End**

---

## Truncate Data - Continued



Truncate Leading



Truncate Ending



Start / End

---

# Set Data for Codes



Set All Codes



UPC-A



UPC-E



EAN 13



Start / End

---

## Set Data for Codes - Continued



EAN 8



Code 128



Code 39



Code 93



Start / End

---

## Set Data for Codes - Continued



Code 32



Pharmacode



Codabar



MSI



Start / End

---

## Set Data for Codes - Continued



Interleaved 2 of 5



GS1 DataBar 14



GS1 DataBar 14 Stacked



GS1 DataBar Expanded



Start / End

---

## Set Data for Codes - Continued



GS1 DataBar Expanded Stacked



GS1 DataBar Limited



CC-A



CC-B



Start / End

---

## Set Data for Codes - Continued



CC-C



PDF417



Micro PDF417



Data Matrix



Start / End

---

## Set Data for Codes - Continued



QR



Micro QR



Aztec



MaxiCode





Start / End

---

# AIM ID



Disable Transmission of AIM ID / DEFAULT



Enable Transmission of AIM ID

# 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.



Start / End

---

## Control Characters Conversion - Continued



NUL Conversion



Disable NUL Conversion



SOH Conversion



Disable SOH Conversion



Start / End

---

## Control Characters Conversion - Continued



STX Conversion



Disable STX Conversion



ETX Conversion



Disable ETX Conversion



**Start / End**

---

## **Control Characters Conversion - Continued**



EOT Conversion



Disable EOT Conversion



ENQ Conversion



Disable ENQ Conversion



Start / End

---

## Control Characters Conversion - Continued



ACK Conversion



Disable ACK Conversion



BEL Conversion



Disable BEL Conversion



Start / End

---

## Control Characters Conversion - Continued



BS Conversion



Disable BS Conversion



HT Conversion



Disable HT Conversion



Start / End

---

## Control Characters Conversion - Continued



LF Conversion



Disable LF Conversion



VT Conversion



Disable VT Conversion





Start / End

---

## Control Characters Conversion - Continued



FF Conversion



Disable FF Conversion



CR Conversion



Disable CR Conversion



Start / End

---

## Control Characters Conversion - Continued



SO Conversion



Disable SO Conversion



SI Conversion



Disable SI Conversion



Start / End

---

## Control Characters Conversion - Continued



DLE Conversion



Disable DLE Conversion



DC1 Conversion



Disable DC1 Conversion



Start / End

---

## Control Characters Conversion - Continued



DC2 Conversion



Disable DC2 Conversion



DC3 Conversion



Disable DC3 Conversion



Start / End

---

## Control Characters Conversion - Continued



DC4 Conversion



Disable DC4 Conversion



NAK Conversion



Disable NAK Conversion



Start / End

---

## Control Characters Conversion - Continued



SYN Conversion



Disable SYN Conversion



ETB Conversion



Disable ETB Conversion



Start / End

---

## Control Characters Conversion - Continued



CAN Conversion



Disable CAN Conversion



EM Conversion



Disable EM Conversion



Start / End

---

## Control Characters Conversion - Continued



SUB Conversion



Disable SUB Conversion



ESC Conversion



Disable ESC Conversion





Start / End

---

## Control Characters Conversion - Continued



FS Conversion



Disable FS Conversion



GS Conversion



Disable GS Conversion



**Start / End**

---

## **Control Characters Conversion - Continued**



RS Conversion



Disable RS Conversion



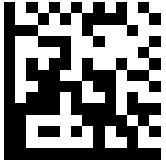
US Conversion



Disable US Conversion

# Appendix A – ASCII Codes

Note 1: If scan the following barcode the output data please refer to type 1 (in Blue)







Note 2: If scan the following barcode the output data please refer to type 2 (in Red)



## Appendix A - ASCII Codes





ASCII (hex)	Serial (TYPE 1)	KBW ( TYPE 2)	
01	<b>SOH (CTRL+A)</b>	<b>Insert</b>	
02	<b>STX (CTRL+B)</b>	<b>Delete</b>	
03	<b>ETX (CTRL+C)</b>	<b>Home</b>	
04	<b>EOT (CTRL+D)</b>	<b>End</b>	

## ASCII Codes - Continued

ASCII (hex)	Serial	KBW	
05	<b>ENQ (CTRL+E)</b>	<b>Up</b>	
06	<b>ACK (CTRL+F)</b>	<b>Down</b>	
07	<b>BEL (CTRL+G)</b>	<b>Left</b>	
08	<b>BACKSPACE (CTRL+H)</b>	<b>BACKSPACE</b>	





T

## ASCII Codes - Continued

ASCII (hex)	Serial	KBW	
09	<b>TAB (CTRL+I)</b>	<b>TAB</b>	
0A	<b>LF (CTRL+J)</b>	<b>LF</b>	
0B	<b>VT (CTRL+K)</b>	<b>Right</b>	
0C	<b>FF (CTRL+L)</b>	<b>Page Up</b>	





T

## ASCII Codes - Continued

ASCII (hex)	Serial	KBW	
0D	<b>CR ( CTRL+M)</b>	<b>ENTER</b>	
0E	<b>SO ( CTRL+N)</b>	<b>Page Down</b>	
0F	<b>SI ( CTRL+O)</b>		
10	<b>DLE ( CTRL+P)</b>		

T

## ASCII Codes - Continued

ASCII (hex)	Serial	KBW	
11	<b>DC1 (CTRL+Q)</b>	<b>F1</b>	
12	<b>DC2 (CTRL+R)</b>	<b>F2</b>	
13	<b>DC3 (CTRL+S)</b>	<b>F3</b>	
14	<b>DC4 (CTRL+T)</b>	<b>F4</b>	

T







## ASCII Codes - Continued





ASCII (hex)	Serial	KBW	
15	<b>NAK (CTRL+U)</b>	<b>F5</b>	
16	<b>SYN (CTRL+V)</b>	<b>F6</b>	
17	<b>ETB (CTRL+W)</b>	<b>F7</b>	
18	<b>CAN (CTRL+X)</b>	<b>F8</b>	

T

## ASCII Codes - Continued



ASCII (hex)	Serial	KBW	
19	<b>EM (CTRL+Y)</b>	<b>F9</b>	
1A	<b>SUB (CTRL+Z)</b>	<b>F10</b>	
1B	<b>ESC CTRL+[</b>	<b>F11</b>	
1C	<b>FS (CTRL+\\)</b>	<b>F12</b>	

## ASCII Codes - Continued





ASCII (hex)	Serial	KBW	
1D	<b>GS CTRL+]</b>	<b>ESC</b>	
1E	<b>RS (CTRL+6)</b>	<b>Right ALT</b>	
1F	<b>US (CTRL+_)</b>	<b>Enter key on Num keypad</b>	
20	SPACE	SPACE	

T





## 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 - Digit Number



0



1



2



3



4



5



6



7



8



9



# Atlantis

[www.atlantis-land.com](http://www.atlantis-land.com)

Sede Operativa / Operational Headquarter  
**ATL S.r.l. - Via Camillo Chiesa, 21**  
**20005 Pogliano M.se (MI) - Italy**

Sede Legale / Registered Office  
**ATL S.r.l. - Via Papa Giovanni XXIII°, 45**  
**24121 Bergamo - Italy**

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