



**7A Series Scanner**

**User Guide**

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W010F01

\*\* Enter Setup

## Chapter 1 Getting Started

### Introduction

The 7A Series Scanner, armed with the patented computerized image recognition system, bring about a new era of 1D barcode scanning.

The 7A Series Scanner's 1D barcode decoder chip ingeniously blends technology and advanced chip design & manufacturing, which significantly simplifies application design and delivers superior performance and solid reliability with low power consumption.

The 7A Series Scanner supports EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code 128, Code 93, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, RSS-14(GS1 Databar), Code 39, Code 11, MSI.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## About This Guide

This guide provides programming instructions for the 7A Series Scanner. Users can configure the scanner by scanning the programming barcodes included in this manual.

The 7A Series Scanner has been properly configured for most applications and can be put into use without further configuration. Users may check the **Factory Defaults Table** in Appendix for reference. Throughout the manual, programming barcodes marked with asterisks (\*\*) are factory default values.

## Barcode Scanning

Powered by imaging technology and patented technology, the 7A Series Scanner features fast scanning and accurate decoding. When scanning a barcode, simply center the aiming beam projected by the scanner over the barcode.



W010F00

Exit Setup





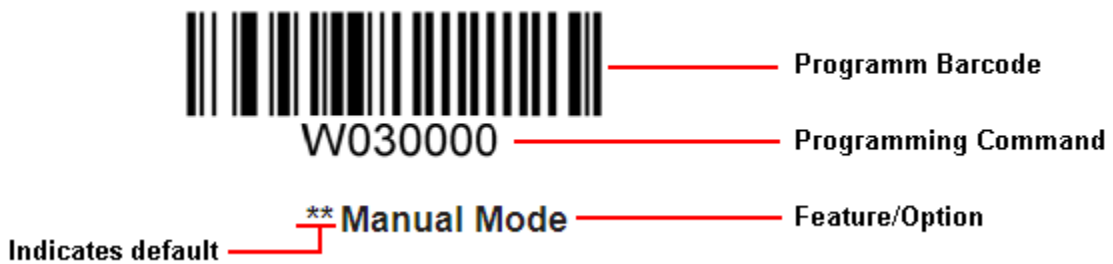
W010F01

\*\* Enter Setup

## Configuring the Scanner

### Barcode Programming

The 7A Series Scanner can be configured by scanning programming barcodes. All user programmable features/options are described along with their programming barcodes in the following sections.



### Enter/Exit Setup



W010F01

\*\* Enter Setup



W010F00

Exit Setup

### Programming Barcode Data



W060F00

\*\* Do Not Transmit Programming Barcode Data



W060F06

Transmit Programming Barcode Data



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

### Factory Defaults

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

User may need to reset scanner when:

1. Scanner is not properly configured so that it fails to decode barcodes;
2. User forget previous configuration and want to avoid its impact;
3. Functions that are rarely used have been enabled for the time being.



WFFD980

Restore All Factory Defaults



W010F00

Exit Setup



W010F01

\*\* Enter Setup

## Chapter 2 Scan Mode

### Manual Mode

**Manual Mode** (default): A trigger pull activates a decode session. The decode session continues until the barcode is decoded or the trigger is released or the decode session timeout expires.



W030000

\*\* Manual Mode

**Decode Session Timeout:** This parameter sets the maximum time decode session continues during a scan attempt. It is programmable in 1s increments from 1s to 255s. The default timeout is 15s. If the parameter is set to 0, the decode session timeout is infinite.



M00031D

Decode Session Timeout

#### Example: Set the decode session timeout to 5s

1. Scan the **Enter Setup** barcode.
2. Scan the **Decode Session Timeout** barcode.
3. Scan the numeric barcode "5". (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Continuous Mode

**Continuous Mode:** A trigger press activates the scanner to scan and decode at user-specified intervals, i.e. the timeout between decodes. Each decode session lasts until barcode is decoded or the decode session timeout expires. To suspend/resume the operation, simply press the trigger.



W030002

Continuous Mode

**Decode Session Timeout:** This parameter sets the maximum time decode session continues during a scan attempt. It is programmable in 1s increments from 1s to 255s. The default timeout is 15s. If the parameter is set to 0, the decode session timeout is infinite.



M00031D

Decode Session Timeout

### Example: Set the decode session timeout to 5s

1. Scan the **Enter Setup** barcode.
2. Scan the **Decode Session Timeout** barcode.
3. Scan the numeric barcode "5". (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

**Timeout between Decodes:** This parameter sets the timeout between decode sessions. When a decode session ends, next session will not happen until the timeout between decodes expires. It is programmable in 0.1s increments from 0.0s to 25.5s. The default timeout is 1.0s.



M00031C

Timeout between Decodes

**Example: Set the timeout between decodes to 5s**

1. Scan the **Enter Setup** barcode.
2. Scan the **Timeout between Decodes** barcode.
3. Scan the numeric barcodes “5” and “0”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

**Timeout between Decodes (Same Barcode)** can avoid undesired rereading of same barcode in a given period of time. This parameter sets the timeout between decodes for same barcode. It is programmable in 0.1s increments from 0.1s to 25.5s. The default timeout is 3.0s. If the parameter is set to 0, the timeout between decodes (same barcode) is infinite.

**Note:** This parameter is only valid when the **Disallow Rereading Same Barcode** is enabled.



M00031E

Timeout between Decodes (Same Barcode)

**Allow Rereading Same Barcode:** The scanner is allowed to re-read same barcode, ignoring the timeout between decodes (same barcode).

**Disallow Rereading Same Barcode:** The scanner is not allowed to re-read same barcode before the timeout between decodes (same barcode) expires.



W100A00

Allow Rereading Same Barcode



W100A10

\*\* Disallow Rereading Same Barcode

**Example: Set the timeout between decodes (same barcode) to 5s**

1. Scan the **Enter Setup** barcode.
2. Scan the **Timeout between Decodes (Same Barcode)** barcode.
3. Scan the numeric barcodes “5” and “0”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

**Security Level** 0-3 level. The higher the value, the lower the error rate and efficiency.



W030A00

\*\*Level 0



W030A01

Level 1



W030A02

Level 2



W030A03

Level 3



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Sense Mode

**Sense Mode:** The scanner activates a decode session every time when it detects a change in ambient illumination and meets the requirement of the image stabilization timeout. Decode session continues until barcode is decoded or the decode session timeout expires.



W030003

Sense Mode

**Decode Session Timeout:** This parameter sets the maximum time decode session continues during a scan attempt. It is programmable in 1s increments from 1s to 255s. The default timeout is 15s. If the parameter is set to 0, the decode session timeout is infinite.



M00031D

Decode Session Timeout

### Example: Set the decode session timeout to 5s

1. Scan the **Enter Setup** barcode.
2. Scan the **Decode Session Timeout** barcode.
3. Scan the numeric barcode "5". (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.



W010F00

Exit Setup





W010F01

\*\* Enter Setup

---

**Image Stabilization Timeout:** The scanner waits for the image stabilization timeout to expire before activating a decode session every time it detects a change in ambient illumination. This parameter is programmable in 0.1s increments from 0.0s to 25.5s.



M00031B

Image Stabilization Timeout

**Example: Set the Image Stabilization Timeout to 5s**

1. Scan the **Enter Setup** barcode.
2. Scan the **Image Stabilization Timeout** barcode.
3. Scan the numeric barcodes “5” and “0”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

**Timeout between Decodes (Same Barcode)** can avoid undesired rereading of same barcode in a given period of time. This parameter sets the timeout between decodes for same barcode. It is programmable in 0.1s increments from 0.1s to 25.5s. The default timeout is 3.0s. If the parameter is set to 0, the timeout between decodes (same barcode) is infinite.

**Note:** This parameter is only valid when the **Disallow Rereading Same Barcode** is enabled.



M00031E

Timeout between Decodes (Same Barcode)

**Allow Rereading Same Barcode:** The scanner is allowed to re-read same barcode, ignoring the timeout between decodes (same barcode).

**Disallow Rereading Same Barcode:** The scanner is not allowed to re-read same barcode before the timeout between decodes (same barcode) expires.



W100A00

Allow Rereading Same Barcode



W100A10

\*\* Disallow Rereading Same Barcode

**Example: Set the timeout between decodes (same barcode) to 5s**

1. Scan the **Enter Setup** barcode.
2. Scan the **Timeout between Decodes (Same Barcode)** barcode.
3. Scan the numeric barcodes “5” and “0”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

**Sensitivity:** This parameter specifies the degree of acuteness of the scanner's response to changes in ambient illumination. The higher the sensitivity, the lower requirement in illumination change to trigger the scanner. You can select an appropriate degree of sensitivity that fits the ambient environment.



WFF0305

High Sensitivity



WFF0310

\*\* Medium Sensitivity



WFF0330

\*\* Medium Sensitivity



M00031A

Custom Sensitivity

Sensitivity levels range from 0 to 255. The smaller the number, the higher the sensitivity.

**Example: Set the sensitivity level to 10**

1. Scan the **Enter Setup** barcode.
2. Scan the **Custom Sensitivity** barcode.
3. Scan the numeric barcodes "1" and "0". (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

# Chapter 3 Notification

## Good Read Beep



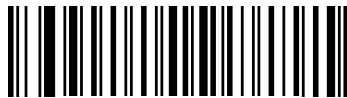
W041204

\*\* Good Read Beep On



W041200

Good Read Beep Off



WFF10DA

Low Frequency



WFF104B

\*\* Medium Frequency



WFF1025

High Frequency



WFF111F

Beep Duration: 40ms



WFF113E

\*\* Beep Duration: 80ms



WFF115D

Beep Duration: 120ms



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Decode Result Notification

When enabled, if a barcode does not decode, "F" is transmitted; if a barcode is decoded, "S" is appended to the barcode data as the most left character.



W203120

Enable Decode Result Notification



W203100

\*\* Disable Decode Result Notification



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Other Settings

You can change the following parameter settings temporarily and the changes will be lost when you power down or reboot the scanner.

### Silent Mode



W400000

Silent Mode On



W400040

\*\* Silent Mode Off

**Note:** This feature is only applicable to decode beep and will be automatically disabled when the scanner is powered down or rebooted.

### Illumination



W0C0000

Off



W0C0008

Always On



W0C0004

\*\* On When Scanning



W010F00

Exit Setup



W010F01

\*\* Enter Setup

## Chapter 4 Communication Settings

The scanner provides USB HID interface to communicate with the host device. The host device can receive scanned data.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## USB Interface

### USB HID-KBW

When enabled, the scanner's transmission is simulated as USB keyboard input. It works on a Plug and Play basis and no driver is required.



W070901

USB HID-KBW



W010F00

Exit Setup





W010F01

\*\* Enter Setup

---

## Standard Keyboard



W031A00

\*\* Standard Keyboard

## Emulate ALT+Keypad

When **Emulate ALT+Keypad** is enabled, any ASCII character (0x00 - 0xFF) is sent over the numeric keypad no matter which keyboard type is selected. Since sending a character involves multiple keystroke emulations, this method appears less efficient.

1. ALT Make
2. Enter the number corresponding to the ASCII character on the keypad.
3. ALT Break



W031A03

Emulate ALT+Keypad

**Note:** It is recommended to turn on the Num Lock light on the host when using this feature.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Function Key Mapping

When **Function Key Mapping** is enabled, function character (0x00 - 0x1F) are sent as ASCII sequences over the numeric keypad.

1. CTRL Make
2. Press function key (Refer to the **ASCII Function Key Mapping Table** on the following page)
3. CTRL Break



W031A01

Function Key Mapping



W010F00

Exit Setup



W010F01

\*\* Enter Setup

### ASCII Function Key Mapping Table

ASCII Value (HEX)	Function Key	ASCII Value (HEX)	Function Key
00	2	10	P
01	A	11	Q
02	B	12	R
03	C	13	S
04	D	14	T
05	E	15	U
06	F	16	V
07	G	17	W
08	H	18	X
09	I	19	Y
0A	J	1A	Z
0B	K	1B	[
0C	L	1C	\
0D	M	1D	]
0E	N	1E	6
0F	O	1F	.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## USB Country Keyboard Types

Keyboard layouts vary from country to country. All supported keyboard types are listed below.



WFF1900

\*\* 1 - U.S.



WFF1901

2 - Belgium



WFF1902

3 - Brazil



WFF1903

4 - Canada



WFF1904

5 - Czech



WFF1905

6 - Denmark



WFF1906

7 - Finland



WFF1907

8 - France



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---



WFF1908

9 - Germany (Austria)



WFF1909

10 - Greece



WFF190A

11 - Hungary



WFF190B

12 - Israel



WFF190C

13 - Italy



WFF190D

14 - Latin America



WFF190E

15 - Netherland



WFF190F

16 - Norway



WFF1910

17 - Poland



WFF1911

18 - Portugal



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---



WFF1912

19 - Romania



WFF1913

20 - Russia



WFF1915

21 - Slovakia



WFF1916

22 - Spain



WFF1917

23 - Sweden



WFF1918

24 - Switzerland



WFF1919

25 - Turkey1



WFF191A

26 - Turkey 2



WFF191B

27 - UK



WFF191C

28 - Japan



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

### Inter-Keystroke Delay

This parameter specifies the delay between emulated keystrokes.



WC01A00

\*\* No Delay



WC01A40

Short Delay (5ms)



WC01A80

Medium Delay (10ms)



WC01AC0

Long Delay (15ms)



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

### Convert Case

This parameter is valid when the **Standard Keyboard** or **Function Key Mapping** is enabled.



W381A00

\*\* No Case Conversion



W381A20

Convert All to Upper Case



W381A30

Convert All to Lower Case



W381A08

Invert Upper and Lower Case Characters

**Example:** When the **Invert Upper and Lower Case Characters** feature is enabled, barcode data “AbC” is transmitted as “aBc”.



W010F00

Exit Setup





W010F01

\*\* Enter Setup

---

## Emulate Numeric Keypad

When this feature is disabled, sending barcode data is emulated as keystroke(s) on main keyboard.

To enable this feature, scan the **Emulate Numeric Keypad** barcode. Sending a number (0-9) is emulated as keystroke on numeric keypad, whereas sending other character like "+", "\_", "\*", "/" and "." is still emulated as keystroke on main keyboard. However, this feature is influenced by the state of the Num Lock key on the host: if the Num Lock light on the host is ON, numbers are sent over numeric keypad, if it is OFF, numbers are sent over main keyboard.



W041A04

Emulate Numeric Keypad



W041A00

\*\* Do Not Emulate Numeric Keypad

**Note:** Make sure the Num Lock light of the Host is turned ON when using this feature.

**Emulate ALT+Keypad ON** prevails over **Emulate Numeric Keypad**.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

## Chapter 5 Data Formatting

### Introduction

After a successful barcode read, a string containing numbers, letters or symbols will be returned.

In real applications, barcode data may be found insufficient for your needs. You may wish to include additional information such as barcode type, data acquisition time or delimiter in data being scanned.

Adding extra information to printed barcodes does not seem like a sensible solution since that will increase the barcode size and make them inflexible. Instead, we come up with the idea of appending prefix and suffix to the data without making any change to barcodes. We will show you how to conduct the configuration in the following sections.

**Note:** Customized data: <Prefix> <Data><Suffix><Terminating Character>



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Prefix Sequence



W013100

\*\* Code ID+Custom+AIM ID



W013101

Custom+Code ID+ AIM ID



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Custom Prefix

### Enable/Disable Custom Prefix

If custom prefix is enabled, you are allowed to append to the data a user-defined prefix that cannot exceed 5 characters.

For example, if barcode data is “123” and custom prefix is “AB”, the host will receive “AB123”.



W043104

Enable Custom Prefix



W043100

\*\* Disable Custom Prefix

### Set Custom Prefix

To set a custom prefix, scan the **Set Custom Prefix** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired prefix and the **Save** barcode.

**Note:** A custom prefix cannot exceed 5 characters.



M000100

Set Custom Prefix

**Example: Set the custom prefix to “CODE” (its hexadecimal value is 0x43/0x4F/0x44/0x45)**

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Custom Prefix** barcode.
3. Scan the numeric barcodes “4”, “3”, “4”, “F”, “4”, “4”, “4” and “5”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Enable Custom Prefix** barcode.
6. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## AIM ID Prefix

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.



W186018

Enable AIM ID Prefix



W186000

\*\* Disable AIM ID Prefix



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## CODE ID Prefix

Code ID can also be used to identify barcode type. Unlike AIM ID, Code ID is user programmable. For the information of default Code ID, see the **Code ID Table** section in Appendix.



W023102

Enable CODE ID Prefix



W023100

\*\* Disable CODE ID Prefix

## Restore All Default Code IDs



WFFD9C2

Restore All Default Code IDs

## Set Code ID

Code ID can only consist of one or two English letters. To set a Code ID, scan a **Set Code ID** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired ID and the **Save** barcode.

**Example: Set the Code ID of Code 128 to “p” (its hexadecimal value is 0x70)**

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Code 128 Code ID** barcode. (See the barcode on the following page )
3. Scan the numeric barcodes “7” and “0”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

### Set Code ID Barcodes



M000200

Set Code 128 Code ID



M000201

Set UCC/EAN-128 Code ID



M000204

Set EAN-8 Code ID



M000205

Set EAN-13 Code ID



M000206

Set ISSN Code ID



M000207

Set ISBN Code ID



M000208

Set UPC-E Code ID



M000209

Set UPC-A Code ID



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

Set Code ID Barcodes (continued)



M00020A

Set Interleaved 2 of 5 Code ID



M00020F

Set Matrix 2 of 5 Code ID



M000210

Set Industrial 25 Code ID



M000212

Set Code 39 Code ID



M000213

Set Codabar Code ID



M000214

Set Code 93 Code ID



M000215

Set Code 11 Code ID



M000217

Set MSI Code ID



W010F00

Exit Setup





W010F01

\*\* Enter Setup

---

**Set Code ID Barcodes (continued)**



M000218

Set RSS-14, Code ID

(GS1 DataBar)



M000219

Set RSS-Limited Code ID

(GS1 DataBar Limited)



M00021A

Set RSS-Expand Code ID

(GS1 DataBar Expanded)



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Custom Suffix

### Enable/Disable Custom Suffix

If custom suffix is enabled, you are allowed to append to the data a user-defined suffix that cannot exceed 5 characters.

For example, if barcode data is “123” and custom suffix is “AB”, the host will receive “123AB”.



W083108

Enable Custom Suffix



W083100

\*\* Disable Custom Suffix



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Set Custom Suffix

To set a custom suffix, scan the **Set Custom Suffix** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired suffix and the **Save** barcode.

**Note:** A custom suffix cannot exceed 5 characters.



M000101

Set Custom Suffix

**Example: Set the custom suffix to “CODE” (its hexadecimal value is 0x43/0x4F/0x44/0x45)**

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Custom Suffix** barcode.
3. Scan the numeric barcodes “4”, “3”, “4”, “F”, “4”, “4”, “4” and “5”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Enable Custom Suffix** barcode.
6. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Terminating Character Suffix

A terminating character, such as carriage return (CR) and line feed (LF), can be used to mark the end of data, which means nothing can be added after it.

A terminating character suffix cannot exceed 5 characters.

### Enable/Disable Terminating Character Suffix

This parameter determines whether to append predefined terminating character suffix to the data.



W103110

Enable Terminating Character Suffix



W103100

\*\* Disable Terminating Character Suffix



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Set Terminating Character Suffix

The scanner provides a shortcut for setting the terminating character suffix to **0x0D (CR)** or **0x0D,0x0A (CRLF)** or **0x09 (Horizontal Tab)**, and enabling it by scanning the appropriate barcode below.



WFFD9C3

Terminating Character 0x0D



WFFD9C4

Terminating Character 0x0D,0x0A



WFFD9C5

Terminating Character 0x09



M000102

Set Terminating Character Suffix

To set a terminating character suffix, scan the **Set Terminating Character Suffix** barcode, the numeric barcodes corresponding to the hexadecimal value of a desired terminating character, and the **Save** barcode.

**Note:** A terminating character suffix cannot exceed 5 characters.

### Example: Set the terminating character suffix to 0x0A (LF)

1. Scan the **Enter Setup** barcode.
2. Scan the **Set Terminating Character Suffix** barcode.
3. Scan the numeric barcodes “0” and “A”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Enable Terminating Character Suffix** barcode.
6. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

## Chapter 6 Symbologies

### Introduction

Every symbology (barcode type) has its own unique attributes. This chapter provides programming barcodes for configuring the scanner so that it can identify various barcode symbologies. It is recommended to disable those that are rarely used in order to increase the efficiency of the scanner.

### Global Settings

#### Enable/Disable All Symbologies

If all symbologies are disabled, the scanner can only identify programming barcodes.



WFFD981

Enable All Symbologies



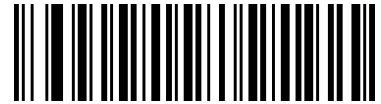
WFFD982

Disable All Symbologies



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Code 128

### Restore Factory Defaults



WFFD990

Restore the Factory Defaults of Code 128

### Enable/Disable Code 128



W016101

\*\* Enable Code 128



W016100

Disable Code 128



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

### Set Length Range for Code 128

The scanner can be configured to only decode Code 128 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Code 128 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Code 128 barcodes with that length are to be decoded.



M000301

Set the Minimum Length



M000300

Set the Maximum Length

### Example: Set the scanner to decode Code128 barcodes containing between 8 and 12 characters

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcodes “1” and “2”.
7. Scan the **Save** barcode.
8. Scan the **Exit Setup** barcode.



W010F00

Exit Setup





W010F01

\*\* Enter Setup

---

## UCC/EAN-128

### Restore Factory Defaults



WFFD991

Restore the Factory Defaults of UCC/EAN-128

### Enable/Disable UCC/EAN-128



W036203

\*\* Enable UCC/EAN-128



W036200

Disable UCC/EAN-128



W036201

Decode as Code 128



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Set Length Range for UCC/EAN-128

The scanner can be configured to only decode UCC/EAN-128 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes UCC/EAN-128 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only UCC/EAN-128 barcodes with that length are to be decoded.



M000303

Set the Minimum Length



M000302

Set the Maximum Length

**Example: Set the scanner to decode UCC/EAN-128 barcodes containing between 8 and 12 characters**

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcodes “1” and “2”.
7. Scan the **Save** barcode.
8. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## EAN-8

### Restore Factory Defaults



WFFD994

Restore the Factory Defaults of EAN-8

### Enable/Disable EAN-8



W016501

\*\* Enable EAN-8



W016500

Disable EAN-8

### Transmit Check Digit

EAN-8 is 8 digits in length with the last one as its check digit used to verify the integrity of the data.



W046504

\*\* Transmit EAN-8 Check Digit



W046500

Do Not Transmit EAN-8 Check Digit



W010F00

Exit Setup



W010F01

\*\* Enter Setup

### Add-On Code

An EAN-8 barcode can be augmented with a two-digit or five-digit add-on code to form a new one. In the examples below, the part surrounded by blue dotted line is an EAN-8 barcode while the part circled by red dotted line is add-on code.



W106510

Enable 2-Digit Add-On Code



W106500

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



W206520

Enable 5-Digit Add-On Code



W206500

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

**Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code:** The scanner decodes a mix of EAN-8 barcodes with and without 2-digit/5-digit add-on codes.

**Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code:** The scanner decodes EAN-8 and ignores the add-on code when presented with an EAN-8 plus add-on barcode. It can also decode EAN-8 barcodes without add-on codes.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

### Add-On Code Required

This parameter is only valid when **Enable 2-Digit Add-On Code** and/or **Enable 5-Digit Add-On Code** is selected.



W086508

EAN-8 Add-On Code Required



W086500

\*\* EAN-8 Add-On Code Not Required

### EAN-8 Extension

**Disable EAN-8 Zero Extend:** Transmit EAN-8 barcodes as is.

**Enable EAN-8 Zero Extend:** Add five leading zeros to decoded EAN-8 barcodes to extend to 13 digits.

**Convert EAN-8 to EAN-13:** Add five leading zeros to decoded EAN-8 barcodes to make them compatible in format to EAN-13 barcodes.



WC06540

Enable EAN-8 Zero Extend



WC06500

\*\* Disable EAN-8 Zero Extend



WC06580

Convert EAN-8 to EAN-13



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## EAN-13

### Restore Factory Defaults



' WFFD995

Restore the Factory Defaults of EAN-13

### Enable/Disable EAN-13



W016601

\*\* Enable EAN-13



W016600

Disable EAN-13

### Transmit Check Digit

EAN-13 is 13 digits in length with the last one as its check digit used to verify the integrity of the data.



W046604

\*\* Transmit EAN-13 Check Digit



W046600

Do Not Transmit EAN-13 Check Digit

---



W010F00

Exit Setup



W010F01

\*\* Enter Setup

## Add-On Code

An EAN-13 barcode can be augmented with a two-digit or five-digit add-on code to form a new one. In the examples below, the part surrounded by blue dotted line is an EAN-13 barcode while the part circled by red dotted line is add-on code.



W106610

Enable 2-Digit Add-On Code



W106600

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



W206620

Enable 5-Digit Add-On Code



W206600

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

**Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code:** The scanner decodes a mix of EAN-13 barcodes with and without 2-digit/5-digit add-on codes.

**Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code:** The scanner decodes EAN-13 and ignores the add-on code when presented with an EAN-13 plus add-on barcode. It can also decode EAN-13 barcodes without add-on codes.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

### Add-On Code Required

This parameter is only valid when **Enable 2-Digit Add-On Code** and/or **Enable 5-Digit Add-On Code** is selected.



W086608

EAN-13 Add-On Code Required



W086600

\*\* EAN-13 Add-On Code Not Required



W010F00

Exit Setup





W010F01

\*\* Enter Setup

---

## ISSN

### Restore Factory Defaults



WFFD996

Restore the Factory Defaults of ISSN

### Enable/Disable ISSN



W036702

Enable ISSN



W036700

\*\* Disable ISSN



W036701

Decode as EAN-13



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## ISBN

### Restore Factory Defaults



WFFD997

Restore the Factory Defaults of ISBN

### Enable/Disable ISBN



W036802

Enable ISBN



W036800

\*\* Disable ISBN



W036801

Decode as EAN-13



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

### Set ISBN Format



W086800

\*\* ISBN-13



W086808

ISBN-10



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## UPC-E

### Restore Factory Defaults



WFFD998

Restore the Factory Defaults of UPC-E

### Enable/Disable UPC-E



W016901

\*\* Enable UPC-E



W016900

Disable UPC-E

### Transmit Check Digit

UPC-E is 8 digits in length with the last one as its check digit used to verify the integrity of the data.



W046904

\*\* Transmit UPC-E Check Digit



W046900

Do Not Transmit UPC-E Check Digit



W010F00

Exit Setup



W010F01

\*\* Enter Setup

## Add-On Code

A UPC-E barcode can be augmented with a two-digit or five-digit add-on code to form a new one. In the examples below, the part surrounded by blue dotted line is a UPC-E barcode while the part circled by red dotted line is add-on code.



W106910

Enable 2-Digit Add-On Code



W106900

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



W206920

Enable 5-Digit Add-On Code



W206900

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

**Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code:** The scanner decodes a mix of UPC-E barcodes with and without 2-digit/5-digit add-on codes.

**Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code:** The scanner decodes UPC-E and ignores the add-on code when presented with a UPC-E plus add-on barcode. It can also decode UPC-E barcodes without add-on codes.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

### Add-On Code Required

This parameter is only valid when **Enable 2-Digit Add-On Code** and/or **Enable 5-Digit Add-On Code** is selected.



W086908

UPC-E Add-On Code Required



W086900

\*\* UPC-E Add-On Code Not Required

### Transmit System Character

The first character of UPC-E barcode is the system character.



W306A10

\*\* Do Not Transmit System Character



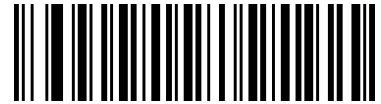
W306A20

Transmit System Character



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## UPC-E Extension

**Disable UPC-E Extend:** Transmit UPC-E barcodes as is.

**Enable UPC-E Extend:** Extend UPC-E barcodes to make them compatible in length to UPC-A.

**Convert UPC-E to UPC-A:** Extend UPC-E barcodes to make them compatible in format to UPC-A.



WC06940

Enable UPC-E Extend



WC06900

\*\*Disable UPC-E Extend



WC06980

Convert UPC-E to UPC-A



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## UPC-A

### Restore Factory Defaults



WFFD999

Restore the Factory Defaults of UPC-A

### Enable/Disable UPC-A



W036B02

\*\* Enable UPC-A



W036B00

Disable UPC-A



W036B01

Decode as EAN-13



W010F00

Exit Setup





W010F01

\*\* Enter Setup

---

## Transmit Check Digit

UPC-A is 13 digits in length with the last one as its check digit used to verify the integrity of the data.



W086B08

\*\* Transmit UPC-A Check Digit



W086B00

Do Not Transmit UPC-A Check Digit

## Transmit Preamble Character

Preamble characters (Country Code and System Character) can be transmitted as part of a UPC-A barcode. Select one of the following options for transmitting UPC-A preamble to the host device: transmit system character only, transmit system character and country code ("0" for USA), or transmit no preamble.



W036A00

No Preamble



W036A01

\*\* System Character



W036A02

System Character & Country Code



W010F00

Exit Setup



W010F01

\*\* Enter Setup

### Add-On Code

A UPC-A barcode can be augmented with a two-digit or five-digit add-on code to form a new one. In the examples below, the part surrounded by blue dotted line is a UPC-A barcode while the part circled by red dotted line is add-on code.



W206B20

Enable 2-Digit Add-On Code



W206B00

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



W406B40

Enable 5-Digit Add-On Code



W406B00

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

**Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code:** The scanner decodes a mix of UPC-A barcodes with and without 2-digit/5-digit add-on codes.

**Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code:** The scanner decodes UPC-A and ignores the add-on code when presented with a UPC-A plus add-on barcode. It can also decode UPC-A barcodes without add-on codes.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

### Add-On Code Required

This parameter is only valid when **Enable 2-Digit Add-On Code** and/or **Enable 5-Digit Add-On Code** is selected.



W106B10

UPC-A Add-On Code Required



W106B00

\*\* UPC-A Add-On Code Not Required



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Interleaved 2 of 5

Restore Factory Defaults



WFFD99A

Restore the Factory Defaults of Interleaved 2 of 5

## Enable/Disable Interleaved 2 of 5



W016C01

\*\* Enable Interleaved 2 of 5



W016C00

Disable Interleaved 2 of 5



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Check Digit Verification

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

**Disable:** The scanner transmits Interleaved 2 of 5 barcodes as is.

**Do Not Transmit Check Digit After Verification:** The scanner checks the integrity of all Interleaved 2 of 5 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.

**Transmit Check Digit After Verification:** The scanner checks the integrity of all Interleaved 2 of 5 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.



W0C6C00

Disable



W0C6C04

\*\* Do Not Transmit Check Digit After Verification



W0C6C0C

Transmit Check Digit After Verification



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Set Length Range for Interleaved 2 of 5

The scanner can be configured to only decode Interleaved 2 of 5 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Interleaved 2 of 5 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Interleaved 2 of 5 barcodes with that length are to be decoded.



M000307

Set the Minimum Length



M000306

Set the Maximum Length

**Example: Set the scanner to decode Interleaved 2 of 5 barcodes containing between 8 and 12 characters**

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcodes “1” and “2”.
7. Scan the **Save** barcode.
8. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Matrix 2 of 5 (European Matrix 2 of 5)

Restore Factory Defaults



WFFD99F

Restore the Factory Defaults of Matrix 2 of 5

## Enable/Disable Matrix 2 of 5



W017101

\*\* Enable Matrix 2 of 5



W017100

Disable Matrix 2 of 5



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

### Check Digit Verification

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

**Disable:** The scanner transmits Matrix 2 of 5 barcodes as is.

**Do Not Transmit Check Digit After Verification:** The scanner checks the integrity of all Matrix 2 of 5 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.

**Transmit Check Digit After Verification:** The scanner checks the integrity of all Matrix 2 of 5 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.



W0C7100

\*\* Disable



W0C7104

Do Not Transmit Check Digit After Verification



W0C710C

Transmit Check Digit After Verification



W010F00

Exit Setup





W010F01

\*\* Enter Setup

---

## Set Length Range for Matrix 2 of 5

The scanner can be configured to only decode Matrix 2 of 5 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Matrix 2 of 5 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Matrix 2 of 5 barcodes with that length are to be decoded.



M000309

Set the Minimum Length



M000308

Set the Maximum Length

**Example: Set the scanner to decode Matrix 2 of 5 barcodes containing between 8 and 12 characters**

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcodes “1” and “2”.
7. Scan the **Save** barcode.
8. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Industrial 25

### Restore Factory Defaults



WFFD9A0

Restore the Factory Defaults of Industrial 25

### Enable/Disable Industrial 25



W017201

\*\* Enable Industrial 25



W017200

Disable Industrial 25



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Check Digit Verification

A check digit is optional for Industrial 25 and can be added as the last digit. It is a calculated value used to verify the integrity of the data.

**Disable:** The scanner transmits Industrial 25 barcodes as is.

**Do Not Transmit Check Digit After Verification:** The scanner checks the integrity of all Industrial 25 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.

**Transmit Check Digit After Verification:** The scanner checks the integrity of all Industrial 25 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.



W0C7200

\*\* Disable



W0C7204

Do Not Transmit Check Digit After Verification



W0C720C

Transmit Check Digit After Verification



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Set Length Range for Industrial 25

The scanner can be configured to only decode Industrial 25 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Industrial 25 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Industrial 25 barcodes with that length are to be decoded.



M00030B

Set the Minimum Length



M00030A

Set the Maximum Length

**Example: Set the scanner to decode Industrial 25 barcodes containing between 8 and 12 characters**

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcodes “1” and “2”.
7. Scan the **Save** barcode.
8. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Code 39

### Restore Factory Defaults



WFFD9A2

Restore the Factory Defaults of Code 39

### Enable/Disable Code 39



W017401

\*\* Enable Code 39



W017400

Disable Code 39



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

### Check Digit Verification

A check digit is optional for Code 39 and can be added as the last digit. It is a calculated value used to verify the integrity of the data.

**Disable:** The scanner transmits Code 39 barcodes as is.

**Do Not Transmit Check Digit After Verification:** The scanner checks the integrity of all Code 39 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.

**Transmit Check Digit After Verification:** The scanner checks the integrity of all Code 39 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.



W187400

\*\* Disable



W187408

Do Not Transmit Check Digit After Verification



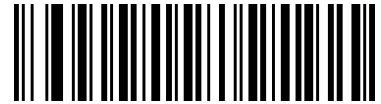
W187418

Transmit Check Digit After Verification



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Transmit Start/Stop Character

Code 39 uses an asterisk (\*) for both the start and the stop characters. You can choose whether or not to transmit the start/stop characters by scanning the appropriate barcode below.



W047404

\*\* Transmit Start/Stop Character



W047400

Do Not Transmit Start/Stop Character

## Enable/Disable Code 39 Full ASCII

The scanner can be configured to identify all ASCII characters by scanning the appropriate barcode below.



W207420

\*\* Enable Code 39 Full ASCII



W207400

Disable Code 39 Full ASCII



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Set Length Range for Code 39

The scanner can be configured to only decode Code 39 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Code 39 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Code 39 barcodes with that length are to be decoded.



M00030F

Set the Minimum Length



M00030E

Set the Maximum Length

**Example: Set the scanner to decode Code 39 barcodes containing between 8 and 12 characters.**

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcode “1”.
7. Scan the numeric barcode “2”.
8. Scan the **Save** barcode.
9. Scan the **Exit Setup** barcode.



W010F00

Exit Setup





W010F01

\*\* Enter Setup

---

## Codabar

### Restore Factory Defaults



WFFD9A3

Restore the Factory Defaults of Codabar

### Enable/Disable Codabar



W017501

\*\* Enable Codabar



W017500

Disable Codabar



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Check Digit Verification

A check digit is optional for Codabar and can be added as the last digit. It is a calculated value used to verify the integrity of the data.

**Disable:** The scanner transmits Codabar barcodes as is.

**Do Not Transmit Check Digit After Verification:** The scanner checks the integrity of all Codabar barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.

**Transmit Check Digit After Verification:** The scanner checks the integrity of all Codabar barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.



W607500

\*\* Disable



W607520

Do Not Transmit Check Digit After Verification



W607560

Transmit Check Digit After Verification



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Start/Stop Character



W047504

\*\* Transmit Start/Stop Character



W047500

Do Not Transmit Start/Stop Character



W187500

\*\* ABCD/ABCD as the Start/Stop Character



W187508

ABCD/TN\*E as the Start/Stop Character



W187510

abcd/abcd as the Start/Stop Character



W187518

abcd/tn\*e as the Start/Stop Character



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Set Length Range for Codabar

The scanner can be configured to only decode Codabar barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Codabar barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Codabar barcodes with that length are to be decoded.



M000311

Set the Minimum Length



M000310

Set the Maximum Length

**Example: Set the scanner to decode Codabar barcodes containing between 8 and 12 characters.**

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcode “1”.
7. Scan the numeric barcode “2”.
8. Scan the **Save** barcode.
9. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Code 93

### Restore Factory Defaults



WFFD9A4

Restore the Factory Defaults of Code 93

### Enable/Disable Code 93



W017601

\*\* Enable Code 93



W017600

Disable Code 93



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

### Check Digit Verification

Check digits are optional for Code 93 and can be added as the last two digits, which are calculated values used to verify the integrity of the data.

**Disable:** The scanner transmits Code 93 barcodes as is.

**Do Not Transmit Check Digit After Verification:** The scanner checks the integrity of all Code 93 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the checks will be transmitted except the last two digits, whereas those failing them will not be transmitted.

**Transmit Check Digit After Verification:** The scanner checks the integrity of all Code 93 barcodes to verify that the data complies with the check digit algorithm. Barcodes passing the checks will be transmitted, whereas those failing them will not be transmitted.



W0C7600

Disable



W0C7604

\*\* Do Not Transmit Check Digit After Verification



W0C760C

Transmit Check Digit After Verification



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Set Length Range for Code 93

The scanner can be configured to only decode Code 93 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Code 93 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Code 93 barcodes with that length are to be decoded.



M000313

Set the Minimum Length



M000312

Set the Maximum Length

**Example: Set the scanner to decode Code 93 barcodes containing between 8 and 12 characters.**

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcode “1”.
7. Scan the numeric barcode “2”.
8. Scan the **Save** barcode.
9. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Code 11

### Restore Factory Defaults



WFFD9A5

Restore the Factory Defaults of Code 11

### Enable/Disable Code 11



W017701

Enable Code 11



W017700

\*\* Disable Code 11



W010F00

Exit Setup





W010F01

\*\* Enter Setup

### Check Digit Verification

Check digits are optional for Code 11 and can be added as the last one or two digits, which are calculated values used to verify the integrity of the data.

If the **Disable** option is enabled, the scanner transmits Code 11 barcodes as is.



W1C7700

Disable



W1C7704

\*\* One Check Digit, MOD11



W1C7708

Two Check Digits, MOD11/MOD11



W1C770C

Two Check Digits, MOD11/MOD9



W1C7710

One Check Digit, MOD11 (Len <= 10)  
Two Check Digits, MOD11/MOD11 (Len > 10)



W1C7714

One Check Digit, MOD11 (Len <= 10)  
Two Check Digits, MOD11/MOD9 (Len > 10)



W207720

Transmit Check Digit



W207700

\*\* Do Not Transmit Check Digit



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Set Length Range for Code 11

The scanner can be configured to only decode Code 11 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes Code 11 barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only Code 11 barcodes with that length are to be decoded.



M000315

Set the Minimum Length



M000314

Set the Maximum Length

**Example: Set the scanner to decode Code 11 barcodes containing between 8 and 12 characters.**

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcode “1”.
7. Scan the numeric barcode “2”.
8. Scan the **Save** barcode.
9. Scan the **Exit Setup** barcode.



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## MSI

### Restore Factory Defaults



WFFD9A7

Restore the Factory Defaults of MSI

### Enable/Disable MSI



W017901

Enable MSI



W017900

\*\* Disable MSI



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Check Digit Verification

Check digits are optional for MSI and can be added as the last one or two digits, which are calculated values used to verify the integrity of the data.

If the **Disable** option is enabled, the scanner transmits MSI barcodes as is.



W0C7900

Disable



W0C7904

\*\* One Check Digit, MOD10



W0C7908

Two Check Digits, MOD10/MOD10



W0C790C

Two Check Digits, MOD10/MOD11



W107910

Transmit Check Digit



W107900

\*\* Do Not Transmit Check Digit



W010F00

Exit Setup



## Set Length Range for MSI

The scanner can be configured to only decode MSI barcodes with lengths that fall between (inclusive) the minimum and maximum lengths.

The supported maximum length is 255 characters. If minimum length is set to be greater than maximum length, the scanner only decodes MSI barcodes with either the minimum or maximum length. If minimum length is same as maximum length, only MSI barcodes with that length are to be decoded.



**Example: Set the scanner to decode MSI barcodes containing between 8 and 12 characters.**

1. Scan the **Enter Setup** barcode.
2. Scan the **Set the Minimum Length** barcode.
3. Scan the numeric barcode “8”. (See the **Digit Barcodes** section in Appendix)
4. Scan the **Save** barcode. (See the **Save/Cancel Barcodes** section in Appendix)
5. Scan the **Set the Maximum Length** barcode.
6. Scan the numeric barcode “1”.
7. Scan the numeric barcode “2”.
8. Scan the **Save** barcode.
9. Scan the **Exit Setup** barcode.





W010F01

\*\* Enter Setup

---

## RSS-14 (GS1 DataBar)

Restore Factory Defaults



WFFD9A8

Restore the Factory Defaults of RSS-14 (GS1 DataBar)

## Enable/Disable RSS-14 (GS1 DataBar)



W017A01

\*\* Enable RSS-14 (GS1 DataBar)



W017A00

Disable RSS-14 (GS1 DataBar)

## Transmit Application Identifier "01"



W047A04

\*\* Transmit Application Identifier "01"



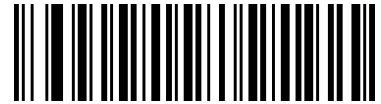
W047A00

Do Not Transmit Application Identifier "01"



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## RSS-Limited (GS1 DataBar Limited)

### Restore Factory Defaults



WFFD9A9

Restore the Factory Defaults of RSS-Limited (GS1 DataBar Limited)

### Enable/Disable RSS-Limited (GS1 DataBar Limited)



W017B01

\*\* Enable RSS-Limited (GS1 DataBar Limited)



W017B00

Disable RSS-Limited (GS1 DataBar Limited)

### Transmit Application Identifier "01"



W047B04

\*\* Transmit Application Identifier "01"



W047B00

Do Not Transmit Application Identifier "01"



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## RSS-Expand (GS1 DataBar Expanded)

Restore Factory Defaults



WFFD9AA

Restore the Factory Defaults of RSS-Expand (GS1 DataBar Expanded)

Enable/Disable RSS-Expand



W017C01

\*\* Enable RSS-Expand (GS1 DataBar Expanded)



W017C00

Disable RSS-Expand (GS1 DataBar Expanded)



W010F00

Exit Setup





W010F01

\*\* Enter Setup

## Appendix

### Factory Defaults Table

Parameter		Factory Default	Remark
<b>System Settings</b>			
Barcode Programming		Enabled	
Programming Barcode Data		Do not send	
Scan Mode		Manual Mode	
Manual Mode	Decode Session Timeout	15s	1-255s; 0: infinite.
Continuous Mode	Decode Session Timeout	15s	1-255s; 0: infinite.
	Timeout between Decodes	1.0s	0.0-25.5s
	Reread Same Barcode	Disallowed	
	Timeout between Decodes (Same Barcode)	3.0s	0.1-25.5s
Sense Mode	Decode Session Timeout	15s	1-255s; 0: infinite.
	Reread Same Barcode	Disallowed	
	Timeout between Decodes (Same Barcode)	3.0s	0.1-25.5s
	Sensitivity	Medium	
Security Level		0	
Good Read Beep		Enabled	
Good Read Beep Frequency		Medium	
Good Read Beep Duration		80ms	
Decode Result Notification		Disabled	
Silent Mode		Disabled	Temporary setting
Illumination		On When Scanning	Temporary setting



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

Parameter		Factory Default	Remark
<b>Communication Interfaces</b>			
USB HID-KBW	Input Mode	Standard Keyboard	
	USB Country Keyboard Type	U.S.	
	Inter-Keystroke Delay	No delay	
	Convert Case	No Conversion	
	Emulate Numeric Keypad	Disabled	
<b>Data Formatting</b>			
Prefix Sequence		Code ID+Custom+AIM ID	
Custom Prefix		Disabled	
AIM ID Prefix		Disabled	
Code ID Prefix		Disabled	
Custom Suffix		Disabled	
Terminating Character Suffix		Disabled	

---



W010F01

\*\* Enter Setup

Parameter	Factory Default	Remark
<b>Code 128</b>		
Code 128	Enabled	
Minimum Length	1	No less than 1 (including check digit)
Maximum Length	80	
<b>EAN-8</b>		
EAN-8	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Add-On Code	Not required	
Extend to EAN-13	Disabled	
<b>EAN-13</b>		
EAN-13	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Add-On Code	Not required	
<b>ISSN</b>		
ISSN	Disabled	
<b>ISBN</b>		
ISBN	Disabled	
ISBN Format	ISBN-13	



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

Parameter	Factory Default	Remark
<b>UPC-E</b>		
UPC-E	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Add-On Code	Not required	
Extend to UPC-A	Disabled	
System Character	Do not transmit	
<b>UPC-A</b>		
UPC-A	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Add-On Code	Not required	
Preamble Character	System Character	
<b>Interleaved 2 of 5</b>		
Interleaved 2 of 5	Enabled	
Check Digit Verification	Enabled	
Check Digit	Do not transmit	
Minimum Length	6	No less than 3 (including check digit)
Maximum Length	100	

---



W010F01

\*\* Enter Setup

Parameter	Factory Default	Remark
<b>Matrix 2 of 5</b>		
Matrix 2 of 5	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Minimum Length	6	No less than 2 (including check digit)
Maximum Length	80	
<b>Industrial 25</b>		
Industrial 25	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Minimum Length	6	No less than 2 (including check digit)
Maximum Length	80	
<b>Code 39</b>		
Code 39	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Start/Stop Character	Transmit	
Code 39 Full ASCII	Enabled	
Minimum Length	4	No less than 2 (including check digit)
Maximum Length	50	



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

Parameter	Factory Default	Remark
<b>Codabar</b>		
Codabar	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Start/Stop Character	Transmit	
Start/Stop Character Format	ABCD/ABCD	
Minimum Length	4	No less than 1 (including check digit)
Maximum Length	60	
<b>Code 93</b>		
Code 93	Enabled	
Check Digit Verification	Enabled	
Check Digit	Do not transmit	
Minimum Length	2	No less than 1 (including check digit)
Maximum Length	80	
<b>Code 11</b>		
Code 11	Disabled	
Check Digit Verification	One check digit, MOD11	
Check Digit	Do not transmit	
Minimum Length	4	No less than 2 (including check digit)
Maximum Length	80	

---



W010F01

\*\* Enter Setup

Parameter	Factory Default	Remark
<b>MSI</b>		
MSI	Disabled	
Check Digit Verification	One check digit, MOD10	
Check Digit	Do not transmit	
Minimum Length	4	No less than 2 (including check digit)
Maximum Length	60	
<b>RSS-14 (GS1 DataBar)</b>		
RSS-14 (GS1 DataBar)	Enabled	
AI (Application Identifier)	Transmit	
<b>RSS-Limited (GS1 DataBar Limited)</b>		
RSS-Limited (GS1 DataBar Limited)	Enabled	
AI (Application Identifier)	Transmit	
<b>RSS-Expand (GS1 DataBar Expanded)</b>		
RSS-Expand (GS1 DataBar Expanded)	Enabled	



W010F00

Exit Setup



W010F01

\*\* Enter Setup

### AIM ID Table

Symbology	AIM ID	Remark
Code 128	]C0	Standard Code 128
UCC/EAN 128 (GS1-128)	]C1	FNC1 is the character right after the start character
EAN-8	]E4	Standard EAN-8
	]E4....]E1...	EAN-8 + 2-Digit Add-On Code
	]E4....]E2...	EAN-8 + 5-Digit Add-On Code
EAN-13	]E0	Standard EAN-13
	]E3	EAN-13 + 2/5-Digit Add-On Code
ISSN	]X5	
ISBN	]X4	
UPC-E	]E0	Standard UPC-E
	]E3	UPC-E + 2/5-Digit Add-On Code
UPC-A	]E0	Standard UPC-A
	]E3	UPC-A + 2/5-Digit Add-On Code
Interleaved 2 of 5	]I0	No check digit verification
	]I1	Transmit check digit after verification
	]I3	Do not transmit check digit after verification
Matrix 2 of 5	]X1	No check digit verification
	]X2	Transmit check digit after verification
	]X3	Do not transmit check digit after verification
Industrial 25	]S0	Not specified
Code 39	]A0	Transmit barcodes as is; Full ASCII disabled; no check digit verification
	]A1	One check digit, MOD 43; transmit check digit
	]A3	One check digit, MOD 43; do not transmit check digit
	]A4	Full ASCII enabled; no check digit verification
	]A5	Full ASCII enabled; MOD43; transmit check digit
	]A7	Full ASCII enabled; MOD43; do not transmit check digit
Codabar	]F0	Standard Codabar
	]F1	ABC Codabar
	]F2	Transmit check digit after verification
	]F4	Do not transmit check digit after verification





W010F01

\*\* Enter Setup

Symbology	AIM ID	Remark
Code 93	]G0	Not specified
Code 11	]H0	One check digit, MOD11; transmit check digit
	]H1	Two check digits, MOD11/MOD11; transmit check digit
	]H3	Do not transmit check digit after verification
	]H8	Two check digits, MOD11/MOD9; transmit check digit
	]H9	No check digit verification
MSI	]M0	One check digit, MOD10; transmit check digit
	]M1	One check digit, MOD10; do not transmit check digit
	]M7	Two check digits, MOD10 /MOD11; do not transmit check digit
	]M8	Two check digits, MOD10 /MOD11; transmit check digit
	]M9	No check digit verification
RSS-14 (GS1 DataBar) /RSS-Limited (GS1 DataBar Limited) RSS-Expand (GS1 DataBar Expanded)	]e0	Standard
	]e1	User-defined
	]e2	User-defined
	]e3	User-defined

Reference: ISO/IEC 15424:2008 Information technology – Automatic identification and data capture techniques – Data Carrier Identifiers (including Symbology Identifiers)



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Code ID Table

Symbology	Code ID
Code 128	j
UCC/EAN-128	u
EAN-8	g
EAN-13	d
ISSN	n
ISBN	B
UPC-E	h
UPC-A	c
Interleaved 2 of 5	e
Matrix 2 of 5(European Matrix 2 of 5)	v
Industrial 25	i
Code 39	b
Codabar	a
Code 93	y
Code 11	z
MSI	m
RSS-14 (GS1 DataBar)	D
RSS-Limited (GS1 DataBar Limited)	C
RSS-Expand (GS1 DataBar Expanded)	R

---



W010F01

\*\* Enter Setup

## ASCII Table

Hex	Dec	Char
00	0	NUL (Null char.)
01	1	SOH (Start of Header)
02	2	STX (Start of Text)
03	3	ETX (End of Text)
04	4	EOT (End of Transmission)
05	5	ENQ (Enquiry)
06	6	ACK (Acknowledgment)
07	7	BEL (Bell)
08	8	BS (Backspace)
09	9	HT (Horizontal Tab)
0a	10	LF (Line Feed)
0b	11	VT (Vertical Tab)
0c	12	FF (Form Feed)
0d	13	CR (Carriage Return)
0e	14	SO (Shift Out)
0f	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)
1a	26	SUB (Substitute)
1b	27	ESC (Escape)
1c	28	FS (File Separator)



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

1d	29	GS (Group Separator)
----	----	----------------------

---



W010F01

\*\* Enter Setup

Hex	Dec	Char
1e	30	RS (Request to Send)
1f	31	US (Unit Separator)
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	\$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	( (Right / Closing Parenthesis)
29	41	) (Right / Closing Parenthesis)
2a	42	* (Asterisk)
2b	43	+ (Plus)
2c	44	, (Comma)
2d	45	- (Minus / Dash)
2e	46	. (Dot)
2f	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3a	58	: (Colon)



W010F00

Exit Setup



W010F01

\*\* Enter Setup

Hex	Dec	Char
3b	59	; (Semi-colon)
3c	60	< (Less Than)
3d	61	= (Equal Sign)
3e	62	> (Greater Than)
3f	63	? (Question Mark)
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4a	74	J
4b	75	K
4c	76	L
4d	77	M
4e	78	N
4f	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5a	90	Z

---



W010F01

\*\* Enter Setup

Hex	Dec	Char
5b	91	[ (Left / Opening Bracket)
5c	92	\ (Back Slash)
5d	93	] (Right / Closing Bracket)
5e	94	^ (Caret / Circumflex)
5f	95	_ (Underscore)
60	96	' (Grave Accent)
61	97	A
62	98	B
63	99	C
64	100	d
65	101	e
66	102	f
67	103	g
68	104	h
69	105	i
6a	106	j
6b	107	k
6c	108	l
6d	109	m
6e	110	n
6f	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7a	122	z



W010F00

Exit Setup



W010F01

\*\* Enter Setup

Hex	Dec	Char
7b	123	{ (Left/ Opening Brace)
7c	124	(Vertical Bar)
7d	125	} (Right/Closing Brace)
7e	126	~ (Tilde)
7f	127	DEL (Delete)

---





W010F01

\*\* Enter Setup

---

## Digit Barcodes

0 ~ 5



D0000000

0



D0000001

1



D0000002

2



D0000003

3



D0000004

4



D0000005

5



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

6~9



D000006

6



D000007

7



D000008

8



D000009

9

---



W010F01

\*\* Enter Setup

---

A ~ F



D00000A

A



D00000B

B



D00000C

C



D00000D

D



D00000E

E



D00000F

F



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

## Save/Cancel Barcodes

After reading numeric barcode(s), you need to scan the **Save** barcode to save the data. If you scan the wrong digit(s), you can either scan the **Cancel the Last Digit** barcode and then the correct digit, or scan the **Cancel All Digits** barcode and then the digits you want.

For instance, after reading the **Decode Session Timeout** barcode and numeric barcodes "1", "2" and "3", you scan:

**Cancel the Last Digit:** The last digit "3" will be removed.

**Cancel All Digits:** All digits "123" will be removed.



D000012

Save



D000010

Cancel the Last Digit



D000011

Cancel All Digits

---



W010F01

\*\* Enter Setup

---

## F1~F12

When the USB HID-KBW feature is enabled, scanning one of the following barcodes will send the corresponding function key.

### F1~F6



F000000

F1



F000001

F2



F000002

F3



F000003

F4



F000004

F5



F000005

F6



W010F00

Exit Setup



W010F01

\*\* Enter Setup

---

F7~F12



F000006

F7



F000007

F8



F000008

F9



F000009

F10



F00000A

F11



F00000B

F12

---