unitech

Barcode Scanner User Manual

MS836

V1.0

CONTENTS

Responsibility Clause

We are not responsibility for errors,omissions and variation without notice.

Enable/Disable Barcode Programming

Scanning the Enter Setup/Exit Setup barcode can enable barcode programming. After barcode programming is enabled, you can scan a number of programming barcodes to configure your scanner. Barcode programming is on by default.
In real application, programming barcodes hardly overlap with on-programming barcodes, so it is unnecessary to disable programming each time you finishthe configuration.

Programming Barcode Data

*Enter Setup

W010F01

Exit Setup

W010F00

Transmit Programming Barcode Data

W060F06

*Do Not Transmit Programming Barcode Data

W060F00

Factory Defaults

Scanning the following barcode can restore the scanner to the factory defaults.
You may need to reset your scanner when:
1. scanner is not properly configured so that it fails to decode barcodes;
2. you forget previous configuration and want to avoid its impact;
3. functions that are rarely used have been enabled for the time being.

Restore All Factory Defaults

WFFD980

Scan Mode

Manual Mode: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.

*Manual Mode

W030000

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.

Decode Session Timeout

M00031D

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.

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. By default, the scanner rereads same barcode with no delay.

Continuous Mode

W030002

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.

Decode Session Timeout

M00031D

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.

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.

Timeout between Decodes

M00031C

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.

Reread Delay sets the time period before the scanner can read the same barcode a second time. It protects against accidental rereads of the same barcode. This parameter is programmable in 0.1s increments from 0.1s to 25.5s. The default delay is 3.0s. If the parameter is set to 0, the delay is infinite.

Note: This parameter only applies when the Reread Same Barcode with a Delay is enabled.

Reread Delay

M00031E

*Reread Same Barcode with No Delay

W100A00

Reread Same Barcode with a Delay

W100A10

Example: Set the reread delay to 5s

1. Scan the Enter Setup barcode.
2. Scan the Reread Delay 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.

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. A trigger pull can also activate a decode session. By default, the scanner rereads same barcode with no delay.

Sense Mode

W030003

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.

Decode Session Timeout

M00031D

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.

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. The default timeout is 0.4s.

Image Stabilization Timeout

M00031B

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.

Reread Delay sets the time period before the scanner can read the same barcode a second time. It protects against accidental rereads of the same barcode. This parameter is programmable in 0.1s increments from 0.1s to 25.5s. The default delay is 3.0s. If the parameter is set to 0, the delay is infinite.

Note: This parameter only applies when the Reread Same Barcode with a Delay is enabled.

Reread Delay

M00031E

Reread Same Barcode with No Delay: The scanner is allowed to reread same barcode, ignoring the

Reread Same Barcode with a Delay: The scanner is not allowed to reread same barcode before the reread delay expires.

To disable rereads of same barcode, enable the Reread Same Barcode with a Delay and set the delay to 0.

*Reread Same Barcode with No Delay

W100A00

Reread Same Barcode with a Delay

W100A10

Example: Set the reread delay to 5s

1. Scan the Enter Setup barcode.
2. Scan the Reread Delay 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.

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.

High Sensitivity

Medium Sensitivity

WFF0310

* Low Sensitivity

WFF0330

Custom Sensitivity

M00031A

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

Command Trigger Mode

Command Trigger Mode: Decode session is activated by a host command. The decode session continues until the barcode is decoded or the decode session time out expires.

Command Trigger Mode

W030001

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.

Decode Session Timeout

M00031D

Security Level

This parameter specifies the number of times to decode a barcode during a scan attempt. The higher the security level, the lower the error rate and decoding efficiency.

Set Security Level to 0

W030A00

Set Security Level to 1

W030A01

Set Security Level to 2

W030A02

Set Security Level to 3

W030A03

Good Read Beep

Good Read Beep Off

W041200

*Good Read Beep On

W041204

Good Read Beep Frequency

Low

WFF10DA

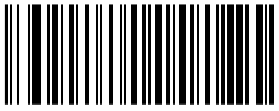
*Medium

WFF104B

High

WFF1025

Good Read Beep Duration



40ms

WFF111F

*80ms

WFF111E

120ms

WFF111D

Decode Result Notification

*Enable Decode Result Notification

W203120

Disable Decode Result Notification

W203100

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 On

W400000

*Silent Mode Off

W400040

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

Illumination

Off

W0C0000

On When Scanning

W0C0004

Always On

W0C0008

Chapter 2 Communication Settings

Introduction

The scanner provides an RS-232 interface, a USB interface and a PS/2 interface (hardware version: V2 or higher) to communicate with the host device. The host device can receive scanned data and send commands to control the scanner or to access/alter the configuration information of the scanner via the RS-232 or USB or PS/2 interface.

RS-232 Interface

Serial communication interface is usually used to connect the scanner to a host device (like PC, POS). When the scanner is connected to a host device through its RS-232 interface, you need to set communication parameters to match the host device.

Baud Rate

*9600

WFFD9D3

1200

WFFD9D0

2400

WFFD9D1

4800

WFFD9D2

14400

WFFD9D4

19200

WFFD9D5

38400

WFFD9D6

57600

WFFD9D7

115200

WFFD9D8

Parity Check

*None

W062900

Even Parity

W062906

Odd Parity

W062904

Stop Bit

*Stop Bit

W012900

2 Stop Bits

W012901

Data Bit

W082908

8 Data Bits

W0F2908

*8 Data Bits, No Parity,
1 Stop Bit

W0F290E

8 Data Bits, Even Parity,
1 Stop Bit

W0F290C

8 Data Bits, Odd Parity,
1 Stop Bit

W0F2909

8 Data Bits,No Parity,
2 Stop Bits

W0F290F

8 Data Bits, Even Parity ,
2 Stop Bits

W0F290D

8 Data Bits, Odd Parity,
2 Stop Bits

W082900

7 Data Bits

W0F2906

7 Data Bits, Even Parity,
1 Stop Bit

W0F2904

7 Data Bits, Odd Parity,
1 Stop Bit

W0F2907

7 Data Bits, Even Parity,
2 Stop Bits

W0F2905

7 Data Bits, Odd Parity,
2 Stop Bits

USB Interface

When the scanner is connected to a host device through its USB interface, USB HID-KBW is enabled by default. User can switch between options – USB DATAPIPE, USB HID-KBW, USB COM Port Emulation and HID-POS, upon actual need.

*USB HID-KBW

W070901

*Standard Keyboard

W031A00

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

Emulate ALT+Keypad

W031A03

Function Key Mapping

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

Function Key Mapping

W031A01

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

USB Country Keyboard Types

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

*1 -U.S.

WFF1900

2 -Belgium

WFF1901

3-Brazil

WFF1902

4-Canada

WFF1903

5- Czech

WFF1904

6- Denmark

WFF1905

7- Finland

WFF1906

8- France

WFF1907

9- Austria

WFF1908

10- Greece

WFF1909

11- Hungary

WFF190A

12- Israel

WFF190B

13- Italy

WFF190C

14-Latin America

WFF190D

15-Netherland

WFF190E

16-Norway

WFF190F

17-Poland

WFF1910

18-Portugal

WFF1911

19-Romania

WFF1912

20-ussia

WFF1913

21-Slovakia

WFF1915

22-Spain

WFF1916

23-Sweden

WFF1917

24-Switzerland

WFF1918

25-Turkey1

WFF1919

26-Turkey2

WFF191A

27-UK

WFF191B

28-Japan

WFF191C

Inter-Keystroke Delay

This parameter specifies the delay between emulated keystrokes.

*No Delay

WC01A00

Short Delay (5ms)

WC01A40

Medium Delay (10ms)

WC01A80

Long Delay (15ms)

WC01AC0

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

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.

USB COM Port Emulation

This feature allows the host to receive data in the way as a serial port does. However, you need to set communication parameters on the scanner to match the Host requirements. A driver is required for this feature.

USB COM Port Emulation

W070902

USB DataPipe

A driver is required when using this protocol to communicate with the scanner .

USB Data Pipe

W070900

HID-POS

The HID-POS interface is recommended for new application programs. It can send up to 56 characters in a single USB report and appears more efficient than USB HID-KBW.

Features:

- HID based, no custom driver required.
- Way more efficient in communication than USB HID-KBW and traditional RS-232 interface.

Note: HID-POS does not require a custom driver. However, a HID interface on Windows 98 does. All HID interfaces employ standard driver provided by the operating system. Use defaults when installing the driver.

HID-POS

W070903

PS/2 Interface (Hardware Version: V2 or higher)

When the scanner is connected to a host device through its PS/2 interface, users need to scan the following barcode to enable the PS/2 port.

PS/2-KBW

W100910

To switch from PS/2 to RS-232, scan the barcode below.

RS-232

W100900

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>

Prefix Sequence

W013100

*Code ID+Custom+AIM ID

W013101

Custom+Code ID+ AIM ID

Prefix

Enable Custom Prefix

W043104

*Disable Custom Prefix

W043100

Set Custom Prefix

W000100

Enable AIM ID Prefix

W186018

*Disable AIM ID Prefix

W186000

Enable CODE ID Prefix

W023102

*Disable CODE ID Prefix

W023100

Restore All Default Code IDs

WFFD9C2

Set Code ID Barcodes

Set Code 128 Code ID

M002000

Set UCC/EAN-128 Code ID

M002001

M002002

Set AIM 128 Code ID

Set EAN-8 Code ID

M002004

Set EAN-13 Code ID

M002005

Set ISSN Code ID

M002006

Set ISBN Code ID

M002007

Set UPC-E Code ID

M002008

Set UPC-A Code ID

M002009

Set Interleaved 2 of 5Code ID

M00200A

Set ITF-6 Code ID

M00200B

Set ITF-14 Code ID

M00200C

Set Deutsche 14 Code ID

M00200D

Set Deutsche 12 Code ID

M00200E

Set Matrix 2 of 5 Code ID

M00200F

Set Industrial 25 Code ID

M002010

Set Standard 25 Code ID

M002011

Set Code 39 Code ID

M002012

Set Codabar Code ID

M002013

Set Code 93 Code ID

M002014

Set Code 11 Code ID

M002015

Set Plessey Code ID

M000216

Set MSI-Plessey Code ID

M000217

Set RSS-14 Code ID

M000218

Set RSS-Limited Code ID

M000219

Set RSS-Expand Code ID

M00021A

Suffix

W083108

Enable Custom Suffix

W083100

*Disable Custom Suffix

M000101

Set Custom Suffix

W103110

*Enable Terminating Character Suffix

W103100

Disable Terminating Character Suffix

WFFD9C3

Terminating Character 0x0D

WFFD9C4

TerminatingCharacter 0x0D,0x0A

WFFD9C5

Terminating Character 0x0A

M000102

Set Terminating Character Suffix

Chapter 4 Symbologies

Introduction

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

Global Settings

Enable All Symbologies

WFFD981

Disable All Symbologies

WFFD982

Restore the Factory Defaults of Code 128

WFFD990

*Enable Code 128

W016101

Disable Code 128

W016100

WFFD991

Restore the Factory Defaults of UCC/EAN-128

W036203

Enable UCC/EAN-128

W036200

Disable UCC/EANI-128

W036201

Decode as Code 128

WFFD992

Restore the Factory Defaults of AIM128

W036302

Enable AIM128

W036301

*Disable AIM128

W036300

Decode as Code 128

WFFD994

Restore the Factory Defaults of EAN-8

W016501

*Enable EAN-8

W016500

Disable EAN-8

WFFD966

Restore the Factory Defaults of ISSN

W036702

Enable ISSN

W036700

*Disable ISSN

W036701

Decode as EAN-13

WFFD997

Restore theFactory Defaults of ISBN

W036802

Enable ISBN

W036800

*Disable ISBN

W036801

Decode as EAN-13

WFFD999

Restore the Factory Defaults of UPC-A

W036B02

*Enable UPC-A

W036B00

Disable UPC-A

W036B01

Decode as EAN-13

WFFD99A

Restore the Factory Defaults of Interleaved 2 Of 5

W016C01

*Enable Interleaved 2 of 5

W016C00

Disable Interleaved 2 of 5

Restore the Factory Defaults of ITF-6

WFFD99B

Disable ITF-6

W036D01

Enable ITF-6 But Do Not Transmit Check Digit

W036D02

Enable ITF-6 and Transmit Check Digit

W036D0A

Restore theFactoryDefaults of ITF-14

WFFD99C

Disable ITF-14

W036E01

W036E02

Enable ITF-14 But Do Not Transmit Check Digit

W036E0A

Enable ITF-14 and Transmit Check Digit

WFFD99D

Restore theFactoryDefaults of Deutsche 14

W036F01

Disable Deutsche 14

W036F02

Enable Deutsche14 But Do Not Transmit Check Digit

W036F0A

Transmit Check Digit

Enable Deutsche 14 and

Transmit Check Digit

W036F0A

Restore the Factory Defaults of Deutsche 12

WFFD99E

Disable Deutsche 12

W037001

Enable Deutsche 12 But Do Not Transmit Check Digit

W0B7002

Enable Deutsche 12 and Transmit Check Digit

W0B700A

WFFD99F

*Enable Matrix 2 of 5

W017101

Restore the Factory Defaults of Matrix 2 of 5

W017101

*Enable Matrix 2 of 5

W017100

Disable Matrix 2 of 5

WFFD9A0

Restore the Factory Defaults of Industrial 25

W017201

*Enable Industrial 25

W017200

Disable Industrial 25

WFFD9A1

W017301

*Enable Standard 25

Restore the Factory
Defaults of
Standard 25

*Enable Standard 25

W017301

Disable Standard 25

W017300

Restore the Factory Defaults of Code 39

WFFD922

*Enable Code 39

W017401

Disable Code 39

W017400

*Enable Code 39 Full ASCII

W207402

Disable Code 39 Full ASCII

W207400

WFFD9A3

Restore the Factory Defaults of Codabar

W017501

*Enable Codabar

W017500

Disable Codabar

WFFD9A4

Restore the Factory Defaults of Code 93

W017601

*Enable Code 93

W017600

Disable Code 93

WFFD9A5

Restore the Factory Defaults of Code 11

W017701

Enable Code 11

W017700

*Disable Code 11

WFFD9A6

Restore the Factory Defaults of Plessey

W017801

Enable Plessey

W017800

*Disable Plessey

WFFD9A7

Restore the Factory Defaults of MSI-Plessey

W017901

Enable MSI-Plessey

W017900

*Disable MSI-Plessey

WFFD9A8

Restore the Factory Defaults of RSS-14

W017A01

*Enable RSS-14

W017A00

Disable RSS-14

WFFD9A9

Restore the Factory Defaults of RSS-Limited

W017B01

*Enable RSS-Limited

W017B00

Disable RSS-Limited

WFFD9AA

Restore the Factory Defaults of RSS Expand

W017C01

*Enable RSS-Expand

W017C00

Disable RSS-Expand

Enable EAN-8 Zero Extend

WC06540

*Disable EAN-8 Zero Extend

WC06500

Convert EAN-8 to EAN-13

WC06580

Restore the Factory Defaults of EAN-13

WFFD995

*Enable EAN-13

W016601

Disable EAN-13

W016600

WFFD998

Restore the Factory Defaults of UPC-E

W016901

*Enable UPC-E

W016900

Disable UPC-E

WC06940

Enable UPC-E Extend

WC06900

*Disable UPC-E Extend

WC06980

Convert UPC-E to UPC-A

*Enable Code 39 Full ASCII

W207420

Disable Code 39 Full ASCII

W207400

Set Length Range

M000301

Set the Minimum Length for Code 128

M000300

Set the Maximum Length for Code 128

M000303

Set the Minimum Length for UCC/EAN-128

M000302

Set the Maximum Length for UCC/EAN-128

M000305

Set the Minimum Length for AIM 128

Set the Maximum Length
for AIM 128

M000307

Set the Minimum Length for Interleaved 2 of 5

M000306

Set the Maximum Length for Interleaved 2 of 5

M000309

Set the Minimum Length for Matrix 2 of 5

M000308

Set the Maximum Length for Matrix 2 of 5

M00030B

Set the Minimum Length for Industrial 25

M00030A

Set the Maximum Length for Industrial 25

M00030D

Set the Minimum Length for Industrial 25

M00030C

Set the Maximum Length for Industrial 25

M00030F

Set the Minimum Length for Code 39

M00030E

Set the Maximum Length for Code 39

M000311

Set the Minimum Length for Codabar

M000310

Set the Maximum Length for Codabar

Set the Minimum Length for Code 93

M000313

Set the Maximum Length for Code 93

M000312

Set the Minimum Length for Code 11

M000315

Set the Maximum Length for Code 11

M000314

Set the Minimum Length for Plessey

M000317

Set the Maximum Length for Plessey

M000316

Set the Minimum Length for MSI-Plessey

M000319

Set the Maximum Length for MSI-Plessey

M000318

Example: Set the scanner to decode MSI-Plessey 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.

Transmit Check Digit

*Transmit EAN-8 Check Digit

W046504

Do Not Transmit EAN-8 Check Digit

W046500

*Transmit EAN-13 Check Digit

W046604

Do Not Transmit EAN-13 Check Digit

W046600

*Transmit UPC-E Check Digit

W046904

Do Not Transmit UPC-E
Check Digit

*Transmit UPC-A Check Digit

W086B08

Do Not Transmit UPC-A Check Digit

W086B00

Check Digit Verification

Example: Set the scanner for check digit Interleaved 2 of 5.

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.

Disable

W0C6C00

Do Not Transmit Check Digit After Verification

W0C6C04

Transmit Check Digit After Verification

W0C6C0C

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

A check digit is optional for Industrial 25 and can be added as the last digit. It is a calculatedvalue 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.

*Disable

W0C7200

Do Not Transmit Check Digit After Verification

W0C7204

Transmit Check Digit After Verification

W0C720C

A check digit is optional for Standard 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 Standard 25 barcodes as is.
Do Not Transmit Check Digit After Verification: The scanner checks the integrity of all Standard 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 Standard 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.

W0C7300

*Disable

W0C7304

Do Not Transmit Check Digit After Verification

W0C730C

Transmit Check Digit After 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

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.

*Disable

W607500

Do Not Transmit Check Digit After Verification

W607520

Transmit Check Digit After Verification

W607560

Check digits are optional for Code 93 and can be added as the last two digits, which are calculated valuesused 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

Check digits are optional for Plessey and can be added as the last one or two digits, which are calculated values used to verify the integrity of the data.
Disable: The scanner transmits Plesseybarcodes as is.
Do Not Transmit Check Digit After Verification: The scanner checks the integrity of all Plessey 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 Plessey 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.

Disable

W0C7800

*Do Not Transmit Check Digit After Verification

W0C7804

Transmit Check Digit After Verification

W0C780C

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.

Disable

W0C7900

*One Check Digit,MOD10

W0C7904

Two Check Digits, MOD10/MOD10

W0C7908

Two Check Digits, MOD10/MOD11

W0C790C

Transmit Check Digit

W107910

*Do Not Transmit Check Digit

W107900

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

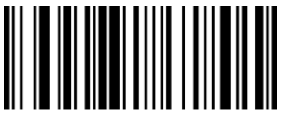
Enable 5-Digit Add-On Code

W206500

*Disable 5-Digit Add-On Code

W086500

*EAN-8 Add-On Code
Not Required



W086508

EAN-8 Add-On Code Required

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

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

W086608

EAN-13 Add-On Code Required

W086600

*EAN-13 Add-On Code Not Required

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.

Transmit System Character

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

W306A10

Do Not Transmit System Character

W306A20

*Transmit System Character

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.

Enable 2-Digit Add-On Code

W106910

*Disable 2-Digit-Add-On Code

W106900

Enable 5-Digit Add-On Code

W206920

*Disable 5-Digit Add-On Code

W206900

UPC-E Add-On Code Required

W086908

*UPC-E Add-On Code Not Required

W086900

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-Ebarcodes without add-on codes.

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

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.

Enable 2-Digit Add-On Code

W206B20

*Disable 2 Digit Add-On Code

W206B00

Enable 5-Digit Add-On Code

W206B40

*Disable5-Digit Add-On Code

W206B00

UPC-A Add-On Code Required

W106B10

*UPC-A Add-On Code
Not Required

W106B00

Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code: The scanner decodes a mix of UPC-Abarcodes 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.

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

Transmit Start/Stop Characters

Transmit Start/Stop Characters code39

W047404

*Do Not Transmit Start/Stop Characters code39

W047400

Transmit Start/Stop Characters

W047504

DO Not Transmit Start/Stop Characters

W047500

*ABCD/ABCD as the Start/ Stop CharacterS

W187500

W187508

ABCD/TN*E as the
Start/ Stop
Characters

W187510

abcd/abcd as the Start/ Stop Characters

W187518

abcd/tn*e as the Start/ Stop Characters

Set ISBN Format

W086800

*ISBN-13

W086808

ISBN-10

Transmit Preamble Character

Preamble characters (Country Code and System Character) can be transmitted as part of a UPC-Abarcode. Select one of the followingoptions for transmitting UPC-Apreamble to the host device: transmit system character only, transmit system character and countrycode ("0" for USA), or transmit no preamble.

No Preamble

W036A00

*System Character

W036A01

System Character & Country Code

W036A02

W086B08

*Transmit UPC-A Check Digit

W086B00

Do Not Transmit UPC-A Check Digit

Check Digit Verification

Interleaved 2 of 5

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.

Disable

W0C6C00

Do Not Transmit Check Digit After Verification

W0C6C04

Transmit Check Digit After Verification

W0C6C0C

Matrix 2 of 5

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.

*Disable

W0C7100

Do Not Transmit Check Digit After Verification

W0C7104

Transmit Check Digit After Verification

W0C710C

Industrial 25

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.

*Disable

W0C7200

Do Not Transmit Check Digit
After Verification

W0C7204

Transmit Check Digit
After Verification

W0C720C

Standard 25

A check digit is optional for Standard 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 Standard 25 barcodes as is.
DoNot Transmit Check Digit After Verification: The scanner checks the integrity of all Standard 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 Standard 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.

*Disable

W0C7300

Do Not Transmit Check Digit After Verification

W0C7304

Transmit Check Digit After Verification

W0C730C

Code 39

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.

*Disable

W187400

Do Not Transmit Check Digit After Verification

W187408

Transmit Check Digit After Verification

W187418

Codabar

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.

*Disable

W607500

Do Not Transmit Check Digit After Verification

W607520

Transmit Check Digit After Verification

W607560

Code 93

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.

Disable

W0C7600

*Do Not Transmit Check Digit After Verification

W0C7604

Transmit Check Digit After Verification

W0C760C

Plessey

Check digits are optional for and can be added as the last one or two digits, which are calculated values used to verify the integrity of the data.
Disable: The scanner transmits Plessey barcodes as is.
Do Not Transmit Check Digit After Verification: The scanner checks the integrity of all Plessey 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 Plessey 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.

Disable

W0C7800

After Verification

W0C7804

Transmit Check Digit After Verification

W0C780C

Code 11

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.

W0C7900

Disable

W0C7904

*One Check Digit,MOD10

W0C7908

Two Check Digits,
MOD10/MOD10

W0C790C

Two Check Digits,
MOD10/MOD

W0C7910

Transmit Check Digit

W0C7900

*Do Not Transmit Check Digit

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

Enable 5-Digit Add-On Code

W206520

*Disable 5-Digit Add-On Code

W206500

EAN-8 Add-On Code Required

W086508

*EAN-8 Add-On Code Not Required

W086500

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.

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

Enable 5-Digit Add-On Code

W206620

*Disable 5-Digit Add-On Code

W206600

EAN-13 Add-On Code Required

W086608

*EAN-13 Add-On Code Not Required

W086600

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.

Transmit System Character

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

*Do Not Transmit System Character

W306A10

Transmit System Character

W306A20

A UPC-E barcode can be augmented with a two-digit or five-digit add-oncode 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.

Enable 2-Digit Add-On Code

W106910

*Disable 2-Digit Add-On Code

W106910

Enable 5-Digit Add-On Code

W206920

*Disable 5-Add-On Code

W206900

UPC-E Add-On Code Required

W086908

*UPC-E Add-On Code Not Required

W086900

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.

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

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.

Enable 2-Digit Add-On Code

W206B20

*Disable 2-Digit Add-On Code

W206B00

Enable 5-Digit Add-On Code

W406B40

*Disable 5-Digit Add-On Code

W406B00

UPC-A Add-On Code Required

W106B10

*UPC-A Add-On Code Not Required

W106B00

Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code: The scanner decodes a mix of UPC-Abarcodes 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.

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

TransmitStart/Stop Characters

W407404

Transmit Start/Stop Characters Code 39

W407400

*Do Not Transmit Start/Stop Characters Code 39

W407504

*Transmit Start/Stop Characters

W407500

DoNot Transmit Start/Stop Characters

W187500

*ABCD/ABCD as the Start/ Stop Characters

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

Set ISBN Format

W086800

*ISBN-13

W086808

ISBN-10

Transmit Preamble Character

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

No Preamble

W036A00

*System Character

W036A01

System Character & Country Code

W036A02

Factory Defaults Table

Parameter	Factory	Default	Remark
System Settings			
Barcode Programming		Enabled	
Programming Barcode Data		Do not send	
Scan Mode		Manual Mode	
Manual Mode	Decode Session Timeout	15 s	1 -255s; 0: infinite.
Continuous Mode	Decode Session Timeout	15 s	1 -255s; 0: infinite.
	Timeout between Decodes	1.0s	0 .0 -25.5s
	Reread Same Barcode	With no delay	To disable rereads of same barcode, enable the Reread Same Barcode with a Delay and set the delay to 0.
Sense Mode	Decode Session Timeout	15 s	1 -255s; 0: infinite.
	Image Stabilization Timeou	0.4s	0 .0 -25.5s
	Reread Same Barcode	With no delay	To disable rereads of same barcode, enable theReread Same Barcode with a Delay and set the delay to 0.
	Sensitivity	Medium	
Command rigger Mode	Decode Session Timeout	15s	1 -255s; 0: infinite.
ecurity 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

Parameter		Factory Default		Remark
Communication Interfaces				
TTL-232 Interface	Baud Rate	9600		
	Parity Check	None		
	Number of Data Bits	8		
	Number of Stop Bits	1		
	Flow Control	None		
USB Interface		USB HID-KBW		Other options:DataPipe,USB COM Port Emulation, HID-POS
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		
Data Formatting				
Prefix Sequence		Code ID+Custom+AIM ID		
AIM ID Prefix		Disabled		
Code ID Prefix		Disabled	1 or 2 English letters	
Custom Prefix		Disabled	1 to 5 characters	
Custom Suffix		Disabled	1 to 5 characters	
Terminating Character Suffix		Enabled, 0x0D,0x0A	0x0D,0x0A：CRLF	
Code 128				
Code 128		Enabled		
Minimum Length		1	No less than 1 (including check digit)	
Maximum Length		80		
UCC/EAN-128 (GS1-128)				
UCC/EAN-128		Enabled		
Minimum Length		1	No less than 1 (including check digit)	
Maximum Length		80		
AIM 128				
AIM 128		Enabled		
Minimum Length		1	No less than 1 (including check digit)	
Maximum Length		80		
EAN-8				
EAN-8		Enabled		
2-Digit Add-On Code		Transmit		
5-Digit Add-On Code		Disabled		
Add-On Code		Not required		
Extend to EAN-13		Disabled		

Parameter	Factory Default	Remark
EAN-13		
EAN-13	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Not required	
Add-On Code	Disabled	
ISSN		
ISSN	Disabled	
ISBN		
ISBN	Disabled	
ISBN Format	ISBN-13	
UPC-E		
UPC-E	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-DigitAdd-On Code	Disabled	
Add-On Code	Not required	
Extend to UPC-A	Disabled	
System Character	Transmit	
UPC-A		
UPC-A	Enabled	
Check Digit	Transmit	
2-Digit Add-On Code	Disabled	
5-DigitAdd-On Code	Disabled	
Add-On Code	Not required	
Extend to UPC-A	Disabled	
System Character	Transmit	
Interleaved 2 of 5		
Interleaved 2 of 5	Enabled	
Check Digit Verification	Enabled	
Check Digit	Do nottransmit	
Minimum Length	6	No less than 1 (including check digit)
Maximum Length	100	
ITF-6		
ITF-6	Decode as I25	
Check Digit	Transmit	
ITF-14		
ITF-14	Decode as I25	
Check Digit	Transmit	

Parameter	Factory Default	Remark
Deutsche14		
Deutsche14	Decode as I25	
Check Digit	Transmit	
Deutsche12		
Deutsche12	Decode as I25	
Check Digit	Transmit	
Matrix 2 of 5		
Matrix 2 of 5	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Minimum Length	6	No less than 1 (including check digit)
Maximum Length	80	
Industrial 25		
Industrial 25	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Minimum Length	6	No less than 1 (including check digit)
Maximum Length	80	
Standard 25		
Standard 25	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Minimum Length	6	No less than 1 (including check digit)
Maximum Length	80	
Code 39		
Code 39	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Start/Stop Characters	Do not transmit	
Code 39 Ful ASCIII	Enabled	
Minimum Length	4	No less than 1 (including check digit)
Maximum Length	50	
Codabar		
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	

Parameter	Factory Default	Remark
Code93		
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	
Code11		
Code 11	Disabled	
Check Digit Verification	One check digit,MOD1	
Check Digit	Do not transmit	
Minimum Length	4	No less than 1 (including check digit)
Maximum Length	80	
Plessey		
Plessey	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Minimum Length	4	No less than 1 (including check digit)
Maximum Length	60	
MSI-Plessey		
MSI-Plessey	Enabled	
Check Digit Verification	Disabled	
Check Digit	Do not transmit	
Minimum Length	6	No less than 1 (including check digit)
Maximum Length	80	
RSS-14		
RSS-14	Disabled	
AI (Application Identifier)	One check digit,MOD11	
RSS-Limited		
RSS-Limited	4	No less than 1 (including check digit)
(Application Identifier)	60	
RSS-Expand		
RSS-Expand	Enabled	

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
AIM 128	]C2	FNC1 is the 2nd character 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
ITF-6	]I1	Transmit check digit
	]I3	Do not transmit check digit
ITF-14	]I1	Transmit check digit
	]I3	Do not transmit check digit
Deutsche 14 Deutsche 12	]X0	
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
Standard 25	]R0	No check digit verification
	]R8	One check digit, MOD 7; do not transmit check digit
	]R9	One check digit, MOD 7; transmit check digit
Code 39	]A0	Transmitbarcodesasis;FullASCIIdisabled;nocheckdigit 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; do not transmit check digit
	]A7	Full ASCII enabled; MOD43; transmit check digit

Symbology	AIM ID	Remark
Codabar	]F0	Standard Codabar
	]F1	ABC Codabar
	]F2	Transmit check digit afte verificationr
	]F4	Do not transmit check digit after verification
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
Plessey	]H9	No check digit verification
MSI Plessey	]P0	Not specified
	]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/RSS-Limited RSS-Expand	]e0	Standard
	]e1	User-defined
	]e2	User-defined
	]e3	User-defined

Reference: ISO/IEC15424:2008Informationtechnology-Automatic -identification and data techniques capture-Data Carrier Identifiers (including Symbology identifiers).

Hex	Dec	Char
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
40	58	: (Colon)
41	59	; (Semi- colon)
42	60	< (Less Than)
43	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

Code ID Table

Symbology	Code ID
Code 128	j
UCC/EAN-128	u
AIM 128	f
SETTING 128	t
EAN-8	g
EAN-13	d
ISSN	n
ISBN	B
UPC-E	h
UPC-A	c
Interleaved 2 of 5	e
ITF-6	r
ITF-14	q
Deutsche 14	w
Deutsche 12	l
Industrial 25	v
Standard 25	i
Code 39	s
Codabar	b
Code 93	a
Code 11	y
Plessey	z
MSI-Plessey	p
RSS-14	m
RSS-Limited	D
RSS-Expand	R

Hex	Dec	Char
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
40	58	: (Colon)
41	59	; (Semi- colon)
42	60	< (Less Than)
43	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

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 (DataLink 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 (SynchronousIdle)
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)
1d	29	GS (Group Separator)
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)

Hex	Dec	Char
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
40	58	: (Colon)
41	59	; (Semi- colon)
42	60	< (Less Than)
43	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

Hex	Dec	Char
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
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

Hex	Dec	Char
79	121	y
7a	122	z
7b	123	{ (Left/ Opening Brace)
7c	124	| (Vertical Bar)
7d	125	} (Right/Closing Brace)
7e	126	~ (Tilde)
7f	127	DEL (Delete)

Digit Barcodes

0

D000000

1

D000001

2

D000002

3

D000003

4

D000004

5

D000005

6

D000006

7

D000007

8

D000008

9

D000009

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.

Save

D000012

Cancel the Last Digit

D000010

Cancel All Digits

D000011

A ~ F

A

D00000A

B

D00000B

C

D00000C

D

D00000D

E

D00000E

F

D00000F

F1~F12

F1

F000000

F2

F000001

F3

F000002

F4

F000003

F5

F000004

F6

F000005

F7

F000006

F8

F000007

F9

F000008

F10

F000009

F11

F00000A

F12

F00000B