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Set Default Parameter

To restore Factory Default Configuration, scan the appropriate barcode below.

Factory Default Configuration



Interval Time

The interval time between two readings in continuous mode. Regardless of the last success or failure to read, more than the specified time will automatically trigger the next reading.

Default: 500ms, unit: 100ms, range: 0-9900ms

To set a Interval Time, scan the barcode below. Next scan two [Numeric Barcodes](#) in the appendix that correspond to the desired time-out. Single digit values must have a leading zero. For example, to set a time-out of 0.5 seconds, scan the barcode below, then scan the “0” and “5” barcodes. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



Beeper Volume

To select a decode beep volume, scan the appropriate barcode.





2050801

**Medium
(0x01)**



2050800

***High
(0x00)**

Beep After Good Read

Scan this barcode to set the scan engine to beep after a good read.



1040021

***Beep After Good Read
(0x01)**

Scan this barcode to set the scan engine to not beep after a good read. The beeper still operates during configuration mode and indicates errors.



1040020

**Do Not Beep After Good Read
(0x00)**

Terminator

Terminator format: Decoded Data+Terminator.



3030050

***Disable
(0x00)**



3030051

CR LF

(0x04)



3030052

CR

(0x02)



3030053

TAB

(0x03)



3030054

CR CR

(0x04)



3030055

CR LF CR LF

(0x05)

LED After Good Read

To enable or disable LED after good read, scan the appropriate barcode below.



30300B0

Disable

(0x00)



30300B1

***Enable
(0x01)**

Mute

To enable or disable all beeps, scan the appropriate barcode below.



30300C0

***Disable Mute
(0x00)**



30300C1

**Enable Mute
(0x01)**

Startup Beep



30300D0

**Disable
(0x00)**



30300D1

***Enable
(0x01)**

Configuration Code Beep



30300E0

**Disable
(0x00)**



Prefix/Suffix Values

A prefix and/or one or two suffixes can be appended to scan data for use in data editing. To set these values, scan a four-digit number (i.e. four barcodes) that corresponds to ASCII values. See the [Table 4-3](#) and [Numeric Barcodes](#) in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.

✓ **NOTE** In order to use Prefix/Suffix values, the [Scan Data Transmission Format](#) must be set.



Scan Data Transmission Format

To change the Scan Data Transmission Format, scan one of the eight barcodes corresponding to the desired format.



20C1000

***Data As Is
(0x00)**



20C1001

**<DATA><SUFFIX 1>
(0x01)**



20C1002

**<DATA><SUFFIX2>
(0x02)**



20C1003

**<DATA> <SUFFIX 1><SUFFIX 2>
(0x03)**



20C1004

**<PREFIX> <DATA >
(0x04)**



20C1005

**<PREFIX> <DATA> <SUFFIX 1>
(0x05)**



Communication Mode



Sensitivity Level

Set automatic triggering sensitivity
Sensitivity Values: Special, High, Middle, Low
Default: High





3030041

*High
(0x01)



3030042

Middle
(0x02)



3030043

Low
(0x03)

Timeout Between Read

Timeout between reading another barcode, Default: 500ms, unit:100ms, range: 0-9900ms



3F30000002

Timeout Between Read

For example:

Set timeout between reads to 200ms.

Scan timeout between read barcode, then scan [Numeric Barcodes](#) 0 and 2.

Set timeout between reads to 1500ms.

Scan timeout between read barcode, then scan [Numeric Barcodes](#) 1 and 5.

Timeout Between Reading Same Barcode

To avoid reading the same barcode multiple times in continuous mode and automatic mode, set the scan engine to allow reading the same barcode after a delay.

Timeout between reading the same code is to refuse to read the same barcode within the set length of time. Default: 500ms,unit:100ms,range: 0-9900ms

To set timeout between reading the same code, scan the barcode below. Next scan two Numeric Barcodes in the appendix that correspond to the desired time-out. Single digit values must have a leading zero. For example, to set a time-out of 0.5 seconds, scan the barcode below, then scan the “0” and “5” barcodes. To change the selection or cancel an incorrect entry, scan Cancel in the appendix.



Timeout Between Reading Same Barcode

For example:

Set timeout between reading same barcode to 200ms

Scan timeout between reading same barcode, then scan *Numeric Barcodes* 0 and 2

Set output interval of the same code to 1500ms

Scan output interval of the same barcode, then scan *Numeric Barcodes* 1 and 5

1D reads two 1D barcodes

While scanning 1D barcodes, the scan engine reads two barcodes at the same time. There must be two barcodes too read at the same time otherwise reading fails (setting codes can still be read one at a time).



*Disable
(0x00)



Enable
(0x01)

Output Product Information



Output Character Set Type

0: Primitive Type

1:GBK(GB2312)

2: UTF8

Default: 0(**Primitive Type**)



3030060

*Primitive Type
(0x00)



3030061

GBK(GB2312)
(0x01)



3030062

UTF8
(0x02)

Input Character Set Type



3030AB0

*AUTO
(0x00)



3030AB1

GBK(GB2312)
(0x01)



3030AB2

UTF8
(0x02)



3030AB3

ASCII
(0x03)

USB Type

USB type

0:USB1.1(Full Speed), 1:USB2.0(High Speed), Default USB1.1



30300F0

*USB1.1(Full Speed)
(0x00)



30300F1

USB2.0(High Speed)
(0x01)

Keyboard

Country/Language Keyboard



6060101

*American Keyboard
(0x01)



6060102

**Belgium
(0x02)**



6060106

**Denmark
(0x06)**



6060107

**Finland
(0x07)**



6060108

**France
(0x08)**



6060109

**Austria, Germany
(0x09)**



606010D

**Italy
(0x0D)**



6060110

Norway

(0x10)



6060112

Portugal
0x12



6060114

Russia
(0x14)



6060116

Spain
(0x16)



6060117

Sweden
(0x17)



6060119

Turkish-F
(0x19)



606011A

Turkish-Q
(0x1A)



606011B

England
(0x1B)



606011C

Japan
(0x1C)

Time interval that keyboard outputs character

Time interval that keyboard outputs character, range: 0-1000ms,unit: 5ms,default: 5ms



3F30000004

For example:

Time interval: 100ms

First scan the setting code above,then scan '0', '2', '0' numeric barcodes in order.

Quick Settings of Keyboard Output Time Interval



3030B20

0ms
(0x00)



3030B21

10ms
(0x01)



3030B22

**50ms
(0x02)**

Letter case conversion

If set to "Case Inversion", the uppercase of the output data will be lowercase, lowercase letters will be uppercase; If set to "all uppercase", regardless of whether the letters in the output data are uppercase or lowercase, all converted to uppercase letters; If set to "all lowercase", regardless of whether the letters in the output data is uppercase or lowercase, all converted to lowercase letters.



3030A10

***Do not change letter case
(0x00)**



3030A11

**All Uppercase
(0x01)**



3030A12

**All Lowercase
(0x02)**



3030A13

**Case Inversion
(0x03)**

Keyboard Type

Enable virtual keyboard, you can output the correct data in any keyboard language mode. When using virtual keyboard, you must ensure that the keypad keys are valid.



3030B40

***Standard Keyboard
(0x00)**



3030B41

**Virtual Keyboard
(0x01)**

Barcode Global Switch

1D Global Switch



3030110

**Disable
(0x00)**



3030111

**Enable
(0x01)**

2D Global Switch



3030500

**Disable
(0x00)**



3030501

**Enable
(0x01)**

All Barcode Switch 全部条码开关



3030900

**Disable
(0x00)**



3030901

**Enable
(0x01)**

UPC/EAN

Enable/Disable UPC-A

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



1 000011

***Enable UPC-A**

(0x01)



1 000010

Disable UPC-A

(0x00)

Enable/Disable UPC-E

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



1 000021

***Enable UPC-E**

(0x01)



1 000020

Disable UPC-E

(0x00)

Enable/Disable EAN-8

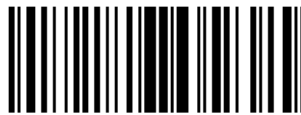
To enable or disable EAN-8, scan the appropriate barcode below.



1 000041

***Enable EAN-8**

(0x01)



1 000040

Disable EAN-8

(0x00)

Enable/Disable EAN-13

To enable or disable EAN-13, scan the appropriate barcode below.



1 000031

***Enable EAN-13**

(0x01)



1 000030

Disable EAN-13

(0x00)

Enable/Disable Bookland EAN(ISBN)

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



1 000231

Enable Bookland EAN

(0x01)



1 000230

***Disable Bookland EAN**

(0x00)

Decode UPC/EAN Supplementals

Supplementals are barcodes appended according to specific format conventions (e.g. UPC A+2, UPC E+2, EAN 13+2, EAN 13+5). The following options are available:

- Do not read supplementals – The scan engine can only read the barcode no matter the barcode with supplementals or not.
- Only read the barcode with supplementals- The scan engine can only read the barcode with supplementals.
- Auto read supplementals- The scan engine can not only read the barcode with supplementals, but also read the barcode without supplementals.



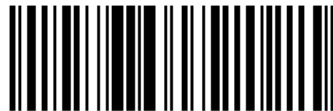
2010E00

***Ignore UPC/EAN with Supplementals
(0x00)**



2010E01

**Decode UPC/EAN with Supplementals
(0x01)**



2010E02

**Auto-discriminate UPC/EAN Supplementals
(0x02)**

Transmit UPC-A Check Digit

Scan the appropriate barcode below to transmit the symbol with or without the UPC-A check digit.



1020021

***Transmit UPC-A Check Digit
(0x01)**



1020020

**Do Not Transmit UPC-A Check Digit
(0x00)**

Transmit UPC-E Check Digit

Scan the appropriate barcode below to transmit the symbol with or without the UPC-E check digit.



1 020031

***Transmit UPC-E Check Digit
(0x01)**



1 020030

**Do Not Transmit UPC-E Check Digit
(0x00)**

UPC-A Preamble

Preamble characters (Country Code and System Character) can be transmitted as part of a UPC-A symbol. 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.



2030100

**No Preamble
<DATA>
(0x00)**



2030101

***System Character
<SYSTEM CHARACTER> <DATA> (0x01)**



2030102

**System Character & Country Code
< COUNTRY CODE> <SYSTEM CHARACTER> <DATA> (0x02)**

UPC-E Preamble

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



2030000

No Preamble

(<DATA>)

(0x00)



2030001

***System Character**

(<SYSTEM CHARACTER> <DATA>)

(0x01)



2030002

System Character & Country Code

(< COUNTRY CODE> <SYSTEM CHARACTER><DATA>)

(0x02)

Convert UPC-E to UPC-A

Enable this parameter to convert UPC-E (zero suppressed) decoded data to UPC-A format before transmission. After conversion, data follows UPC-A format and is affected by UPC-A programming selections (e.g., Preamble, Check Digit).

Scan **DO NOT CONVERT UPC-E TO UPC-A** to transmit UPC-E (zero suppressed) decoded data.



1020001

Convert UPC-E to UPC-A

(0x01)



1020000

***Do Not Convert UPC-E to UPC-A
(0x00)**

EAN-8 Zero Extend

When enabled, this parameter adds five leading zeros to decoded EAN-8 symbols to make them compatible in format to EAN-13 symbols.

Disable this parameter to transmit EAN-8 symbols as is.



1020011

**Enable EAN-8 Zero Extend
(0x01)**



1020010

***Disable EAN-8 Zero Extend
(0x00)**

Bookland ISBN Format

If you enabled Bookland EAN using [Enable/Disable Bookland EAN](#) , select one of the following formats for Bookland data:

Bookland ISBN-10 - The scan engine reports Bookland data starting with 978 in traditional 10-digit format with the special Bookland check digit for backward-compatibility. Data starting with 979 is not considered Bookland in this mode.

Bookland ISBN-13 - The scan engine reports Bookland data (starting with either 978 or 979) as EAN-13 in 13-digit format to meet the 2007 ISBN-13 protocol.



N02400

***Bookland ISBN-10
(0x00)**



N02401
Bookland ISBN-13
(0x01)

✓ **NOTE** For Bookland EAN to function properly, first enable Bookland EAN using [Enable/Disable Bookland EAN](#), then select either Decode UPC/EAN Supplementals, Auto-discriminate UPC/EAN Supplementals, or Enable 978/979 Supplemental Mode in [Decode UPC/EAN Supplementals](#).

UPC/EAN Security Level

The scan engine offers four levels of decode security for UPC/EAN barcodes. Increasing levels of security are provided for decreasing levels of barcode quality. Increasing security decreases the scan engine's aggressiveness, so choose only that level of security necessary for the application.

UPC/EAN Security Level 0

This default setting allows the scan engine to operate in its most aggressive state, while providing sufficient security in decoding most "in-spec" UPC/EAN barcodes.



2051100
***UPC/EAN Security Level 0**
(0x00)

UPC/EAN Security Level 1

As barcode quality levels diminish, certain characters become prone to mis-decodes before others (i.e., 1, 2, 7, 8). If mis-decodes of poorly printed barcodes occur, and the mis-decodes are limited to these characters, select this security level.



2051101
UPC/EAN Security Level 1
(0x01)

UPC/EAN Security Level 2

If mis-decodes of poorly printed barcodes occur, and the mis-decodes are not limited to characters 1, 2, 7, and 8, select this security level.



UPC/EAN Security Level 3 UPC/EAN

If mis-decodes still occur after selecting Security Level 2, select this security level. Be advised, selecting this option is an extreme measure against mis-decoding severely out of spec barcodes. Selection of this level of security significantly impairs the decoding ability of the scan engine. If this level of security is necessary, try to improve the quality of the barcodes.



Code 128

Including AIM128 ,but the output type is different.

Enable/Disable Code 128

To enable or disable Code 128, scan the appropriate barcode below.



Enable/Disable GS1-128 (formerly UCC/EAN-128)

To enable or disable GS1-128, scan the appropriate barcode below.



1040331

***Enable GS1-128**

(0x01)



1040330

Disable GS1-128

(0x00)

Enable/Disable ISBT 128

To enable or disable ISBT 128, scan the appropriate barcode below.



1000331

***Enable ISBT 128**

(0x01)



1000330

Disable ISBT 128

(0x00)

Lengths for Code 128

No length setting is required for Code 128.

没有要求Code 128的长度设置。

Code 39

Enable/Disable Code 39

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



1000001

***Enable Code 39**

(0x01)



1 000000

Disable Code 39

(0x00)

Set Lengths for Code 39

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for Code 39 may be set for any length, one or two discrete lengths, or lengths within a specific range. If Code 39 Full ASCII is enabled, **Length Within a Range** or **Any Length** are the preferred options. To set lengths via serial commands, see [Setting Code Lengths Via Serial Commands](#).

✓ **NOTE** When setting lengths, single digit numbers must always be preceded by a leading zero.

One Discrete Length - This option limits decodes to only those Code 39 barcodes containing a selected length. Lengths are selected from the [Numeric Barcodes](#) in the appendix. For example, to decode only Code 39 symbols with 14 characters, scan **Code 39 - One Discrete Length**, then scan **1** followed by **4**. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



1 01000101370000

Code 39 - One Discrete Length

Two Discrete Lengths - This option limits decodes to only those Code 39 symbols containing either of two selected lengths. Lengths are selected from the [Numeric Barcodes](#) in the appendix. For example, to decode only those Code 39 symbols containing either 2 or 14 characters, select **Code 39 - Two Discrete Lengths**, then scan **0**, **2**, **1**, and then **4**. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



2 01000100370000

Code 39 - Two Discrete Lengths

Length Within Range - This option limits decodes to only those Code 39 symbols within a specified range. For example, to decode Code 39 symbols containing between 4 and 12 characters, first scan **Code 39 - Length Within Range**. Then scan **0**, **4**, **1**, and **2** according to [Numeric Barcodes](#) in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



Code 39 - Length Within Range

Any Length - Scan this option to decode Code 39 symbols containing any number of characters.



Code 39 - Any Length

Code 39 Check Digit Verification

When this feature is enabled, the scan engine checks the integrity of all Code 39 symbols to verify that the data complies with specified check digit algorithm. Only those Code 39 symbols which include a modulo 43 check digit are decoded. Only enable this feature if your Code 39 symbols contain a module 43 check digit.



1020041

**Verify Code 39 Check Digit
(0x01)**



1020040

***Do Not Verify Code 39 Check Digit
(0x00)**

Transmit Code 39 Check Digit

Scan this symbol to transmit the check digit with the data.



1020241

**Transmit Code 39 Check Digit (Enable)
(0x01)**

Scan this symbol to transmit data without the check digit.



1020240

***Do Not Transmit Code 39 Check Digit (Disable)**
(0x00)

Enable/Disable Code 39 Full ASCII

Code 39 Full ASCII is a variant of Code 39 which pairs characters to encode the full ASCII character set. To enable or disable Code 39 Full ASCII, scan the appropriate barcode below.

See [Table 4-3](#) for the mapping of Code 39 characters to ASCII values.



1020111

Enable Code 39 Full ASCII
(0x01)



1020110

***Disable Code 39 Full ASCII**
(0x00)

✓ **NOTE** Trioptic Code 39 and Code 39 Full ASCII cannot be enabled simultaneously. If you get an error beep when enabling Code 39 Full ASCII, disable Trioptic Code 39 and try again.

Code 39 Transport Start Character and Terminator



3030300

***Disable**
(0x00)



3030301

Enable
(0x01)

Convert Code 39 to Code 32 (Italian Pharma Code)

Code 32 is a variant of Code 39 used by the Italian pharmaceutical industry. Scan the appropriate barcode below to enable or disable converting Code 39 to Code 32.



1020300

*Disable
(0x00)



1020301

Enable
(0x01)

Code 32 Prefix

Enable this parameter to add the prefix character “A” to all Code 32 barcodes. Convert Code 39 to Code 32(Italian Pharma Code) must be enabled for this parameter to function.



1020320

*Disable
(0x00)



1020321

Enable
(0x01)

Code 93

Enable/Disable Code 93

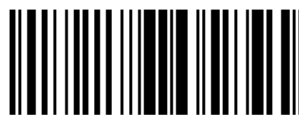
To enable or disable Code 93, scan the appropriate barcode below.



1 0 0 0 1 1 1

Enable Code 93

(0x01)



1 0 0 0 1 1 0

*Disable Code 93

(0x00)

Set Lengths for Code 93

The length of a code refers to the number of characters (i.e., human readable characters, including check digit(s) the code contains. Lengths for Code 93 may be set for any length, one or two discrete lengths, or lengths within a specific range. To set lengths via serial commands, see [Setting Code Lengths Via Serial Commands](#).

One Discrete Length - Select this option to decode only those codes containing a selected length. For example, select **Code 93 One Discrete Length**, then scan **1, 4**, to limit the decoding to only Code 93 symbols containing 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



F 1 0 1 0 A 0 B 0 2 3 7 0 0 0 1 1

Code 93 - One Discrete Length

Two Discrete Lengths - Select this option to decode only those codes containing two selected lengths. For example, select **Code 93 Two Discrete Lengths**, then scan **0, 2, 1, 4**, to limit the decoding to only Code 93 symbols containing 2 or 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



F 2 0 1 0 A 0 B 0 2 3 7 0 0 0 1 1

Code 93 - Two Discrete Lengths

Length Within Range - This option sets the unit to decode a code type within a specified range. For example, to decode Code 93 symbols containing between 4 and 12 characters, first scan **Code 93 Length Within Range**, then scan **0, 4, 1** and **2** (single digit numbers must always be preceded by a leading zero. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



F3010A0B023700011

Code 93 - Length Within Range

Any Length - Scan this option to decode Code 93 symbols containing any number of characters.



F0010A0B023700011

Code 93 - Any Length

Code 11

Enable/Disable Code 11

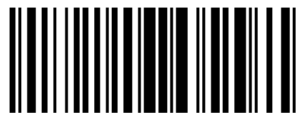
To enable or disable Code 11, scan the appropriate barcode below.



1000121

Enable Code 11

(0x01)



1000120

*Disable Code 11

(0x00)

Set Lengths for Code 11

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Set lengths for Code 11 to any length, one or two discrete lengths, or lengths within a specific range.

One Discrete Length - Select this option to decode only Code 11 symbols containing a selected length. Select the length using the [Numeric Barcodes](#) in the appendix. For example, to decode only Code 11 symbols with 14 characters, scan **Code 11 - One Discrete Length**, then scan **1** followed by **4**. To correct an error or to change the selection, scan [Cancel](#) in the appendix.

Two Discrete Lengths - Select this option to decode only Code 11 symbols containing either of two selected

lengths. Select lengths using the [Numeric Barcodes](#) in the appendix. For example, to decode only those Code 11 symbols containing either 2 or 14 characters, select **Code 11 - Two Discrete Lengths**, then scan **0, 2, 1**, and then **4**. To correct an error or to change the selection, scan [Cancel](#) in the appendix.

Length Within Range - Select this option to decode a Code 11 symbol with a specific length range. Select lengths using the [Numeric Barcodes](#) in the appendix. For example, to decode Code 11 symbols containing between 4 and 12 characters, first scan **Code 11 - Length Within Range**. Then scan **0, 4, 1**, and **2** (single digit numbers must always be preceded by a leading zero). To correct an error or change the selection, scan [Cancel](#) in the appendix.

Any Length - Scan this option to decode Code 11 symbols containing any number of characters within the scan engine capability.



Code 11 Check Digit Verification

This feature allows the scan engine to check the integrity of all Code 11 symbols to verify that the data complies with the specified check digit algorithm. This selects the check digit mechanism for the decoded Code 11 barcode. The options are to check for one check digit, check for two check digits, or disable the feature.

To enable this feature, scan the barcode below corresponding to the number of check digits encoded in your Code 11 symbols.



2051200

*Disable
(0x00)



2051201

One Check Digit
(0x01)

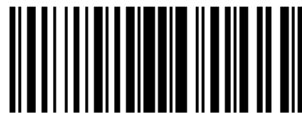


2051202

Two Check Digits
(0x02)

Transmit Code 11 Check Digits

This feature selects whether or not to transmit the Code 11 check digit(s).



1020141

Transmit Code 11 Check Digit(s) (Enable)
(0x01)



1020140

*Do Not Transmit Code 11 Check Digit(s) (Disable)
(0x00)

✓ **NOTE** Code 11 Check Digit Verification must be enabled for this parameter to function.

Interleaved 2 of 5/ITF

Enable/Disable Interleaved 2 of 5

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



1 000061

*Enable Interleaved 2 of 5
(0x01)



1 000060

Disable Interleaved 2 of 5
(0x00)

Set Lengths for Interleaved 2 of 5

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for I 2 of 5 may be set for any length, one or two discrete lengths, or lengths within a specific range. To set lengths via serial commands, see [Setting Code Lengths Via Serial Commands](#).

✓ **NOTE** When setting lengths, single digit numbers must always be preceded by a leading zero.

One Discrete Length - Select this option to decode only those codes containing a selected length. For example, select **I 2 of 5 One Discrete Length**, then scan **1, 4**, to decode only I 2 of 5 symbols containing 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



1 01080902440000

I 2 of 5 - One Discrete Length

Two Discrete Lengths - Select this option to decode only those codes containing two selected lengths. For example, select **I 2 of 5 Two Discrete Lengths**, then scan **0, 6, 1, 4**, to decode only I 2 of 5 symbols containing 6 or 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



2 01080902440000

I 2 of 5 - Two Discrete Lengths

Length Within Range - Select this option to decode only codes within a specified range. For example, to decode I 2 of 5 symbols containing between 4 and 12 characters, first scan **I 2 of 5 Length Within Range**, then scan **0**, **4**, **1** and **2** (single digit numbers must always be preceded by a leading zero). [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



Any Length - Scan this option to decode I 2 of 5 symbols containing any number of characters.
✓ **NOTE** Selecting this option may lead to mis-decodes for I 2 of 5 codes.



I 2 of 5 Check Digit Verification

When enabled, this parameter checks the integrity of an I 2 of 5 symbol to ensure it complies with a specified algorithm, either USS (Uniform Symbology Specification), or OPCC (Optical Product Code Council).



**OPCC Check Digit
(0x02)**

Transmit I 2 of 5 Check Digit

Scan this symbol to transmit the check digit with the data.



**Transmit I 2 of 5 Check Digit (Enable)
(0x01)**

Scan this symbol to transmit data without the check digit.



***Do Not Transmit I 2 of 5 Check Digit (Disable)
(0x00)**

Convert I 2 of 5 to EAN-13

This parameter converts a 14 character I 2 of 5 code into EAN-13, and transmits to the host as EAN-13. To accomplish this, I 2 of 5 must be enabled, one length must be set to 14, and the code must have a leading zero and a valid EAN-13 check digit.



**Convert I 2 of 5 to EAN-13 (Enable)
(0x01)**



***Do Not Convert I 2 of 5 to EAN-13 (Disable)
(0x00)**

Discrete 2 of 5/Industrial 2 of 5

Enable/Disable Discrete 2 of 5

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



1 000051

Enable Discrete 2 of 5
(0x01)



1 000050

*Disable Discrete 2 of 5
(0x00)

Set Lengths for Discrete 2 of 5

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for D 2 of 5 may be set for any length, one or two discrete lengths, or lengths within a specific range. To set lengths via serial commands, see [Setting Code Lengths Via Serial Commands](#).

One Discrete Length - Select this option to decode only those codes containing a selected length. For example, select **D 2 of 5 One Discrete Length**, then scan **1, 4**, to decode only D 2 of 5 symbols containing 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



1 01060702370000

Discrete 2 of 5 - One Discrete Length

Two Discrete Lengths - Select this option to decode only those codes containing two selected lengths. For example, select **D 2 of 5 Two Discrete Lengths**, then scan **0, 2, 1, 4**, to decode only D 2 of 5 symbols containing 2 or 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



2 01060702370000

Discrete 2 of 5 - Two Discrete Lengths

Length Within Range - Select this option to decode codes within a specified range. For example, to decode D 2 of 5 symbols containing between 4 and 12 characters, first scan **Discrete 2 of 5 Length Within Range**, then scan

0, 4, 1 and 2 (single digit numbers must be preceded by a leading zero). [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



Any Length - Scan this option to decode Discrete 2 of 5 symbols containing any number of characters.

✓ **NOTE** Selecting this option may lead to mis-decodes for Discrete 2 of 5 codes.



Matrix 25

Enable/Disable Matrix 25

To enable or disable Matrix 25, scan the appropriate barcode below.



Matrix 25 Check Digit Verification



Enable Matrix 25 Check Digit Verification
(0x01)



*Disable Matrix 25 Check Digit Verification
(0x00)

Transmit Matrix 25 Check Character



Enable Matrix 25 Transmit Check Character
(0x01)



*Disable Matrix 25 Transmit Check Character
(0x00)

Set Lengths for Matrix 25

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for Matrix 25 may be set for any length, one or two discrete lengths, or lengths within a specific range. To set lengths via serial commands, see [Setting Code Lengths Via Serial Commands](#).

One Discrete Length - Select this option to decode only those codes containing a selected length. For example, select **Matrix 25 One Discrete Length**, then scan **1, 4**, to decode only Matrix 25 symbols containing 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



Matrix 25 - One Discrete Length

Two Discrete Lengths - Select this option to decode only those codes containing two selected lengths. For example, select **Matrix 25 Two Discrete Lengths**, then scan **0, 2, 1, 4**, to decode only Matrix 25 symbols containing 2 or 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



Matrix 25 - Two Discrete Lengths

Length Within Range - Select this option to decode codes within a specified range. For example, to decode Matrix 25 symbols containing between 4 and 12 characters, first scan **Matrix 25 Length Within Range**, then scan **0**, **4**, **1** and **2** (single digit numbers must be preceded by a leading zero). [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



Matrix 25 - Length Within Range

Any Length - Scan this option to decode Matrix 25 symbols containing any number of characters.

✓ **NOTE** Selecting this option may lead to mis-decodes for Matrix 25 codes.



Matrix 25 - Any Length

Standard 25/IATA 25

Enable/Disable Standard 25

To enable or disable Standard 25, scan the appropriate barcode below.



***Disable Standard 25**
(0x00)



Enable Standard 25
(0x01)

Standard 25 Check Digit Verification



***Disable Standard 25 Check Digit Verification**
(0x00)



Enable Standard 25 Check Digit Verification
(0x01)

Transmit Check Character



***Disable Standard 25 Transmit Check Character**
(0x00)



Enable Standard 25 Transmit Check Character
(0x01)

Set Lengths for Standard 25

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for Standard 25 may be set for any length, one or two discrete lengths, or lengths within a specific range. To set lengths via serial commands, see [Setting Code Lengths Via Serial Commands](#).

One Discrete Length - Select this option to decode only those codes containing a selected length. For example, select **Standard 25 One Discrete Length**, then scan **1, 4**, to decode only Standard 25 symbols containing 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



F1118283F50000003

Standard 25 - One Discrete Length

Two Discrete Lengths - Select this option to decode only those codes containing two selected lengths. For example, select **Standard 25 Two Discrete Lengths**, then scan **0, 2, 1, 4**, to decode only Standard 25 symbols containing 2 or 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



F2118283F50000003

Standard 25 - Two Discrete Lengths

Length Within Range - Select this option to decode codes within a specified range. For example, to decode Standard 25 symbols containing between 4 and 12 characters, first scan **Standard 25 Length Within Range**, then scan **0, 4, 1** and **2** (single digit numbers must be preceded by a leading zero). [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



F3118283F50000003

Standard 25 - Length Within Range

Any Length - Scan this option to decode Standard 25 symbols containing any number of characters.

✓ **NOTE** Selecting this option may lead to misdecodes for Standard 25 codes.



F0118283F50000003

Standard 25 - Any Length

Codabar

Enable/Disable Codabar

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



1 0 0 0 0 7 1

Enable Codabar

(0x01)



1 0 0 0 0 7 0

*Disable Codabar

(0x00)

Set Lengths for Codabar

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for Codabar may be set for any length, one or two discrete lengths, or lengths within a specific range. To set lengths via serial commands, see [Setting Code Lengths Via Serial Commands](#).

One Discrete Length - Select this option to decode only those codes containing a selected length. For example, select **Codabar One Discrete Length**, then scan **1, 4**, to decode only Codabar symbols containing 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



1 0 1 0 2 0 3 0 2 3 7 0 0 0 C

Codabar - One Discrete Length

Two Discrete Lengths - This option sets the unit to decode only those codes containing two selected lengths. For example, select **Codabar Two Discrete Lengths**, then scan **0, 2, 1, 4**, to decode only Codabar symbols containing 6 or 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



2 0 1 0 2 0 3 0 2 3 7 0 0 0 C

Codabar - Two Discrete Lengths

Length Within Range - Select this option to decode a code within a specified range. For example, to decode Codabar symbols containing between 4 and 12 characters, first scan **Codabar Length Within Range**, then scan **0, 4**,

1 and 2 (single digit numbers must always be preceded by a leading zero). [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.

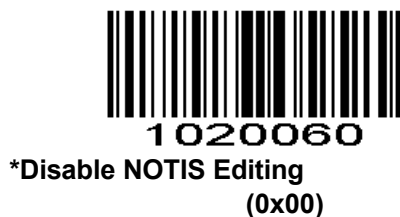


Any Length - Scan this option to decode Codabar symbols containing any number of characters.



NOTIS Editing

When enabled, this parameter strips the start and stop characters from decoded Codabar barcodes.



Start Character and Terminator

The start character and terminator are allowed to be one of the four characters of "A", "B" "C" "D". The terminator is also allowed to be one of the four characters of "T", "N", "*", "E".





3030311
ABCD/TN*E
(0x01)

Letter Case Setting of Start Character and Terminator



3030320
*Uppercase
(0x00)

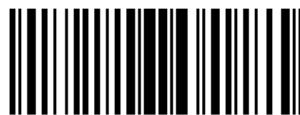


3030321
Lowercase
(0x01)

MSI/MSI PLESSEY

Enable/Disable MSI

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



1000141
Enable MSI
(0x01)



1000140
*Disable MSI
(0x00)

Set Lengths for MSI

The length of a code refers to the number of characters (i.e., human readable characters) the code contains, and includes check digits. Lengths for MSI can be set for any length, one or two discrete lengths, or lengths within a

specific range. See [Table 4-3](#) for ASCII equivalents. To set lengths via serial commands, see [Setting Code Lengths Via Serial Commands](#).

One Discrete Length - Select this option to decode only those codes containing a selected length. For example, select **MSI Plessey One Discrete Length**, then scan **1, 4**, to decode only MSI Plessey symbols containing 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



Two Discrete Lengths - Select this option to decode only those codes containing two selected lengths. For example, select **MSI Plessey Two Discrete Lengths**, then scan **0, 6, 1, 4**, to decode only MSI Plessey symbols containing 6 or 14 characters. [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



Length Within Range - Select this option to decode codes within a specified range. For example, to decode MSI symbols containing between 4 and 12 characters, first scan **MSI Length Within Range**, then scan **0, 4, 1** and **2** (single digit numbers must always be preceded by a leading zero). [Numeric Barcodes](#) is in the appendix. To change the selection or cancel an incorrect entry, scan [Cancel](#) in the appendix.



Any Length - Scan this option to decode MSI Plessey symbols containing any number of characters.
✓ **NOTE** Selecting this option may lead to mis-decodes for MSI codes.



MSI Check Digits

These check digits at the end of the barcode verify the integrity of the data. At least one check digit is always required. Check digits are not automatically transmitted with the data.



If two check digits are selected, also select an [MSI Check Digit Algorithm](#).



Transmit MSI Check Digit

Scan this symbol to transmit the check digit with the data.



Scan this symbol to transmit data without the check digit.



MSI Check Digit Algorithm

When the Two MSI check digits option is selected, an additional verification is required to ensure integrity. Select one of the following algorithms.



GS1 DataBar/RSS

Enable/Disable GS1 DataBar-14

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



Enable/Disable GS1 DataBar Limited

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



1 000361

**Enable GS1 DataBar Limited
(0x01)**



1 000360

***Disable GS1 DataBar Limited 禁止 GS1 DataBar Limited
(0x00)**

Enable/Disable GS1 DataBar Expanded

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



1 000371

**Enable GS1 DataBar Expanded
(0x01)**



1 000370

***Disable GS1 DataBar Expanded
(0x00)**

PDF417

Scan normal or mirror image picture.

Enable/Disable PDF417

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



1 000170

**Disable PDF417
(0x00)**



1000171

***Enable PDF417
(0x01)**

Read Multi-code



3030600

***Read Monocode
(0x00)**



3030601

**Read Dicode
(0x01)**



3030602

**Read Monocode /Dicode
(0x02)**

Read Normal Phase / Phase Reversal



3030610

***Read Normal Phase
(0x00)**



3030611

**Read Phase Reversal
(0x01)**



3030612

**Read Normal Phase/ Phase Reversal
(0x02)**

QR

Read normal phase/ phase reversal/ mirror image picture.

Enable/Disable QR

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



1003250

**Disable QRCode
(0x00)**



1003251

***Enable QRCode
(0x01)**

Read Multi-code



3030650

***Read Monocode
(0x00)**



3030651

**Read Dicode
(0x01)**



3030652

**Read Monocode /Dicode
(0x02)**

ECI Control



3030660
*Do Not Output ECI
(0x00)



3030661
Output ECI
(0x01)

Data Matrix(DM)

Scan normal or mirror image picture.

Enable/Disable Data Matrix(DM)

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



1003240
Disable DataMatrix
(0x00)



1003241
*Enable DataMatrix
(0x01)

Read Multi-code



30306A0
*Read Monocode
(0x00)



30306A1

Read Dicode
(0x01)



30306A2

Read Monocode /Dicode
(0x02)

Read Normal Phase / Phase Reversal



30306B0

*Read Normal Phase
(0x00)



30306B1

Read Phase Reversal
(0x01)



30306B2

Read Normal Phase / Phase Reversal
(0x02)

ECI Control



30306C0

*Not Output ECI
(0x00)



30306C1

**Output ECI
(0x01)**

Maxi Code

Enable/Disable Maxi Code

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



1003260

***Disable MaxiCode
(0x00)**



1003261

**Enable MaxiCode
(0x01)**

Aztec Code

Enable/Disable Aztec Code

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



1003280

***Disable Aztec Code
(0x00)**



1003281

**Enable Aztec Code
(0x01)**

Han Xin Code

Enable/Disable Han Xin Code

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



10032F0

***Disable Han Xin Code
(0x00)**



10032F1

**Enable Han Xin Code
(0x01)**

Read Multi-code



3030700

***Read Monocode
(0x00)**



3030701

**Read Dicode
(0x01)**



3030702

**Read Monocode /Dicode
(0x02)**

Read Normal Phase / Phase Reversal



3030710

***Read Normal Phase
(0x00)**



3030711

**Read Phase Reversal
(0x01)**



3030712

**Read Normal Phase/ Phase Reversal
(0x02)**

ISSN

ISSN turns to EAN13 when it's disabled.



3030330

***Disable
(0x00)**



3030331

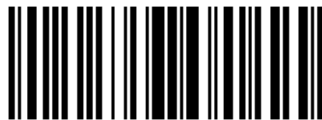
**Enable
(0x01)**

PLESSEY



3030340

***Disable
(0x00)**



3030341

**Enable
(0x01)**

1. Appendix

Table 4-1

Parameter Number	Data Format
0 through 0xEF	<param_num> <value>
0xF0, 0xF1, 0xF2	<extended parameter code> <param_num offset> <value>
0xF4	<WORD parameter><Parameter Number><Value : High Byte><Value : Low Byte> Or <WORD parameter><Extended parameter code><Parameter Number> <Value : High Byte><Value : Low Byte>

Numeric Barcodes

For parameters requiring specific numeric values, scan the appropriately numbered barcode(s).





4



5



6



7



8



9

Cancel

To change the selection or cancel an incorrect entry, scan the barcode below.



Cancel