



@CBASC F3

abcd/tn*e as the Start/Stop Character

Code 93

Restore Factory Defaults



@C93DEF

Restore the Factory Defaults of Code 93

Enable/Disable Code 93



@C93ENA1

Enable Code 93



@C93ENAO

**** Disable Code 93**



If the scanner fails to identify Code 93 barcodes, you may first try this solution by scanning the **Enable Code 93** barcode.

Set Length Range for Code 93

The scanner can be configured to only decode Code 93 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.



@C93MIN

Set the Minimum Length (Default: 1)



@C93MAX

Set the Maximum Length (Default: 48)



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



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

1. Scan the **Set the Minimum Length** barcode.
2. Scan the numeric barcode "8" from the "Digit Barcodes" section in Appendix.
3. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.
4. Scan the **Set the Maximum Length** barcode.
5. Scan the numeric barcodes "1" and "2" from the "Digit Barcodes" section in Appendix.
6. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.

Check Character Verification

Check characters are optional for Code 93 and can be added as the last two characters, 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 Character After Verification:** The scanner checks the integrity of all Code 93 barcodes to verify that the data complies with the check character algorithm. Barcodes passing the checks will be transmitted except the last two digits, whereas those failing them will not be transmitted.
- ❖ **Transmit Check Character After Verification:** The scanner checks the integrity of all Code 93 barcodes to verify that the data complies with the check character algorithm. Barcodes passing the checks will be transmitted, whereas those failing them will not be transmitted.



@C93CHK0

Disable



@C93CHK1

**** Do Not Transmit Check Character After Verification**



@C93CHK2

Transmit Check Character After Verification



If the **Do Not Transmit Check Character After Verification** option is enabled, Code 93 barcodes with a length that is less than the configured minimum length after having the two check characters excluded will not be decoded. (For example, when the **Do Not Transmit**

Check Character After Verification option is enabled and the minimum length is set to 4, Code 93 barcodes with a total length of 4 characters including the two check characters cannot be read.

UPC-A

Restore Factory Defaults



@UPADEF

Restore the Factory Defaults of UPC-A

Enable/Disable UPC-A



@UPAENA1

**** Enable UPC-A**



@UPAENAO

Disable UPC-A



If the scanner fails to identify UPC-A barcodes, you may first try this solution by scanning the **Enable UPC-A** barcode.

Transmit Check Character

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



@UPACHK2

**** Transmit UPC-A Check Character**



@UPACHK1

Do Not Transmit UPC-A Check Character

2-Digit Add-On Code

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



@UPAAD20

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



@UPAAD21

Enable 2-Digit Add-On Code



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

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

5-Digit Add-On Code

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



@UPAAD50

** Disable 5-Digit Add-On Code



@UPAAD51

Enable 5-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 5-digit add-on barcode. It can also decode UPC-A barcodes without 5-digit add-on codes.

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

Add-On Code Required

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



@UPAREQ1

UPC-A Add-On Code Required



@UPAREQ0

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

Add-On Code Separator

When this feature is on, there is a space between the data from the barcode and the data from the add-on code. When turned off, there is no space.



@UPASEPO

**** Off**



@UPASEP1

On

Transmit Preamble Character

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



@UPAPRE0

**** No Preamble**



@UPAPRE1

System Character

System Character & Country Code

@UPAPRE2

UPC-E

Restore Factory Defaults



@UPEDEF

Restore the Factory Defaults of UPC-E

Enable/Disable UPC-E



@UPEENA1

**** Enable UPC-E**



@UPEENAO

Disable UPC-E



@UPEENO1

**** Enable UPC-E0**



@UPEENOO

Disable UPC-E0



@UPEEN11

Enable UPC-E1



@UPEEN10

**** Disable UPC-E1**

Transmit Check Character

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



@UPECHK2

** Transmit UPC-E Check Character



@UPECHK1

Do Not Transmit UPC-E Check Character

2-Digit Add-On Code

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



@UPEAD20

** Disable 2-Digit Add-On Code

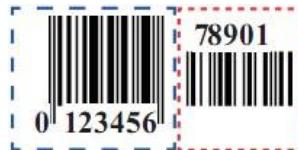


Disable 2-Digit Add-On Code: The scanner decodes UPC-E and ignores the add-on code when presented with a UPC-E plus 2-digit add-on barcode. It can also decode UPC-E barcodes without 2-digit add-on codes.

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

5-Digit Add-On Code

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



@UPEAD50

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



@UPEAD51

Enable 5-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 5-digit add-on barcode. It can also decode UPC-E barcodes without 5-digit add-on codes.

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

Add-On Code Required

When **UPC-E Add-On Code Required** is selected, the scanner will only read UPC-E barcodes that contain add-on codes.



@UPEREQ1

UPC-E Add-On Code Required



@UPEREQ0

** UPC-E Add-On Code Not Required

Add-On Code Separator

When this feature is on, there is a space between the data from the barcode and the data from the add-on code. When turned off, there is no space.



@UPESEPO

** Off



@UPESEP1

On

Transmit Preamble Character

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



@UPEPRE1

** System Character



@UPEPRE0

No Preamble



@UPEPRE2

System Character & Country Code

Convert UPC-E to UPC-A

Convert UPC-E to UPC-A: Convert UPC-E (zero suppressed) decoded data to UPC-A format before transmission. After conversion, the data follows UPC-A format and is affected by UPC-A programming selections (e.g., Preamble, Check Character).

Do Not Convert UPC-E to UPC-A: UPC-E decoded data is transmitted as UPC-E data, without conversion.



@UPEEXPO

**** Do Not Convert UPC-E to UPC-A**



@UPEEXP1

Convert UPC-E to UPC-A

EAN-8

Restore Factory Defaults



@EA8DEF

Restore the Factory Defaults of EAN-8

Enable/Disable EAN-8



@EA8ENA1

**** Enable EAN-8**



If the scanner fails to identify EAN-8 barcodes, you may first try this solution by scanning the **Enable EAN-8** barcode.



@EA8ENAO

Disable EAN-8

Transmit Check Character

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



@EA8CHK2

**** Transmit EAN-8 Check Character**



@EA8CHK1

Do Not Transmit EAN-8 Check Character

2-Digit Add-On Code

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



@EA8AD20

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



@EA8AD21

Enable 2-Digit Add-On Code



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

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

5-Digit Add-On Code

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



@EA8AD50

** Disable 5-Digit Add-On Code



@EA8AD51

Enable 5-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 5-digit add-on barcode. It can also decode EAN-8 barcodes without 5-digit add-on codes.

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

Add-On Code Required

When **EAN-8 Add-On Code Required** is selected, the scanner will only read EAN-8 barcodes that contain add-on codes.



@EA8REQ1

EAN-8 Add-On Code Required



@EA8REQ0

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

Add-On Code Separator

When this feature is on, there is a space between the data from the barcode and the data from the add-on code. When turned off, there is no space.



@EA8SEPO

**** Off**



@EA8SEP1

On

Convert EAN-8 to EAN-13

Convert EAN-8 to EAN-13: Convert EAN-8 decoded data to EAN-13 format before transmission. After conversion, the data follows EAN-13 format and is affected by EAN-13 programming selections (e.g., Check Character).

Do Not Convert EAN-8 to EAN-13: EAN-8 decoded data is transmitted as EAN-8 data, without conversion.



@EA8EXPO

**** Do Not Convert EAN-8 to EAN-13**



@EA8EXP1

Convert EAN-8 to EAN-13

EAN-13

Restore Factory Defaults



@E13DEF

Restore the Factory Defaults of EAN-13

Enable/Disable EAN-13



@E13ENA1

**** Enable EAN-13**



@E13ENA0

Disable EAN-13



If the scanner fails to identify EAN-13 barcodes, you may first try this solution by scanning the **Enable EAN-13** barcode.

Transmit Check Character



@E13CHK2

** Transmit EAN-13 Check Character



@E13CHK1

Do Not Transmit EAN-13 Check Character

2-Digit Add-On Code

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



@E13AD20

** Disable 2-Digit Add-On Code



@E13AD21

Enable 2-Digit Add-On Code



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

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

5-Digit Add-On Code

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



@E13AD50

** Disable 5-Digit Add-On Code



@E13AD51

Enable 5-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 5-digit add-on barcode. It can also decode EAN-13 barcodes without 5-digit add-on codes.

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

Add-On Code Required

When **EAN-13 Add-On Code Required** is selected, the scanner will only read EAN-13 barcodes that contain add-on codes.



@E13REQ0

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



@E13REQ1

EAN-13 Add-On Code Required

Add-On Code Separator

When this feature is on, there is a space between the data from the barcode and the data from the add-on code. When turned off, there is no space.



@E13SEPO

**** Off**



@E13SEPI

On

EAN-13 Beginning with 290 Add-On Code Required

This setting programs the scanner to require an add-on code (2-digit or 5-digit) on EAN-13 barcodes that begin with "290". The following settings can be programmed:

Require Add-On Code: All EAN-13 barcodes that begin with "290" must have a 2-digit or 5-digit add-on code. The EAN-13 barcode with the add-on code is then transmitted. If the required add-on code is not found, the

EAN-13 barcode is discarded.

Do Not Require Add-On Code: If you have selected **Require Add-On Code**, and you want to disable this feature, scan **Do Not Require Add-On Code**. EAN-13 barcodes are handled, depending on your selection for the “Add-On Code Required” feature.



@E132900

**** Do Not Require Add-On Code**



@E132901

Require Add-On Code

EAN-13 Beginning with 378/379 Add-On Code Required

This setting programs the scanner to require an add-on code (2-digit or 5-digit) on EAN-13 barcodes that begin with a “378” or “379”. The following settings can be programmed:

Require Add-On Code: All EAN-13 barcodes that begin with a “378” or “379” must have a 2-digit or 5-digit add-on code. The EAN-13 barcode with the add-on code is then transmitted. If the required add-on code is not found, the EAN-13 barcode is discarded.

Do Not Require Add-On Code: If you have selected **Require Add-On Code**, and you want to disable this feature, scan **Do Not Require Add-On Code**. EAN-13 barcodes are handled, depending on your selection for the “Add-On Code Required” feature.



@E133780

**** Do Not Require Add-On Code**



@E133781

Require Add-On Code

EAN-13 Beginning with 414/419 Add-On Code Required

This setting programs the scanner to require an add-on code (2-digit or 5-digit) on EAN-13 barcodes that begin with a "414" or "419". The following settings can be programmed:

Require Add-On Code: All EAN-13 barcodes that begin with a "414" or "419" must have a 2-digit or 5-digit add-on code. The EAN-13 barcode with the add-on code is then transmitted. If the required add-on code is not found, the EAN-13 barcode is discarded.

Do Not Require Add-On Code: If you have selected **Require Add-On Code**, and you want to disable this feature, scan **Do Not Require Add-On Code**. EAN-13 barcodes are handled, depending on your selection for the "Add-On Code Required" feature.



@E134140

**** Do Not Require Add-On Code**



@E134141

Require Add-On Code

EAN-13 Beginning with 434/439 Add-On Code Required

This setting programs the scanner to require an add-on code (2-digit or 5-digit) on EAN-13 barcodes that begin with a "434" or "439". The following settings can be programmed:

Require Add-On Code: All EAN-13 barcodes that begin with a "434" or "439" must have a 2-digit or 5-digit add-on code. The EAN-13 barcode with the add-on code is then transmitted. If the required add-on code is

not found, the EAN-13 barcode is discarded.

Do Not Require Add-On Code: If you have selected **Require Add-On Code**, and you want to disable this feature, scan **Do Not Require Add-On Code**. EAN-13 barcodes are handled, depending on your selection for the "Add-On Code Required" feature.



@E134340

**** Do Not Require Add-On Code**



@E134341

Require Add-On Code

EAN-13 Beginning with 977 Add-On Code Required

This setting programs the scanner to require an add-on code (2-digit or 5-digit) on EAN-13 barcodes that begin with "977". The following settings can be programmed:

Require Add-On Code: All EAN-13 barcodes that begin with "977" must have a 2-digit or 5-digit add-on code. The EAN-13 barcode with the add-on code is then transmitted. If the required add-on code is not found, the EAN-13 barcode is discarded.

Do Not Require Add-On Code: If you have selected **Require Add-On Code**, and you want to disable this feature, scan **Do Not Require Add-On Code**. EAN-13 barcodes are handled, depending on your selection for the "Add-On Code Required" feature.



@E139770

**** Do Not Require Add-On Code**



@E139771

Require Add-On Code

EAN-13 Beginning with 978 Add-On Code Required

This setting programs the scanner to require an add-on code (2-digit or 5-digit) on EAN-13 barcodes that begin with "978". The following settings can be programmed:

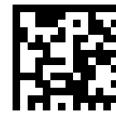
Require Add-On Code: All EAN-13 barcodes that begin with "978" must have a 2-digit or 5-digit add-on code. The EAN-13 barcode with the add-on code is then transmitted. If the required add-on code is not found, the EAN-13 barcode is discarded.

Do Not Require Add-On Code: If you have selected **Require Add-On Code**, and you want to disable this feature, scan **Do Not Require Add-On Code**. EAN-13 barcodes are handled, depending on your selection for the "Add-On Code Required" feature.



@E139780

**** Do Not Require Add-On Code**



@E139781

Require Add-On Code

EAN-13 Beginning with 979 Add-On Code Required

This setting programs the scanner to require an add-on code (2-digit or 5-digit) on EAN-13 barcodes that begin with "979". The following settings can be programmed:

Require Add-On Code: All EAN-13 barcodes that begin with "979" must have a 2-digit or 5-digit add-on code. The EAN-13 barcode with the add-on code is then transmitted. If the required add-on code is not found, the EAN-13 barcode is discarded.

Do Not Require Add-On Code: If you have selected **Require Add-On Code**, and you want to disable this feature, scan **Do Not Require Add-On Code**. EAN-13 barcodes are handled, depending on your selection for the "Add-On Code Required" feature.



@E139790

**** Do Not Require Add-On Code**



@E139791

Require Add-On Code

ISBN

Restore Factory Defaults



@ISBDEF

Restore the Factory Defaults of ISBN

Enable/Disable ISBN



@ISBENA1

Enable ISBN



@ISBENA0

**** Disable ISBN**

Set ISBN Format



@ISBT101

**** ISBN-10**



@ISBT100

ISBN-13

ISSN

Restore Factory Defaults



@ISSDEF

Restore the Factory Defaults of ISSN

Enable/Disable ISSN



@ISSENA1

Enable ISSN



@ISSENA0

**** Disable ISSN**

Interleaved 2 of 5

Restore Factory Defaults



@I25DEF

Restore the Factory Defaults of Interleaved 2 of 5

Enable/Disable Interleaved 2 of 5



@I25ENA1

**** Enable Interleaved 2 of 5**



@I25ENAO

Disable Interleaved 2 of 5



If the scanner fails to identify Interleaved 2 of 5 barcodes, you may first try this solution by scanning the **Enable Interleaved 2 of 5** barcode.

Set Length Range for Interleaved 2 of 5

The scanner can be configured to only decode Interleaved 2 of 5 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.



@I25MIN

Set the Minimum Length (Default: 6)



@I25MAX

Set the Maximum Length (Default: 80)



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



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

1. Scan the **Set the Minimum Length** barcode.
2. Scan the numeric barcode "8" from the "Digit Barcodes" section in Appendix.
3. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.
4. Scan the **Set the Maximum Length** barcode.
5. Scan the numeric barcodes "1" and "2" from the "Digit Barcodes" section in Appendix.
6. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.

Check Character Verification

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

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

Since Interleaved 2 of 5 must always have an even number of digits, a zero may need to be added as the first digit when the check character is added. The check character is automatically generated when making Interleaved 2 of 5 barcodes.



@I25CHK0

**** Disable**



@I25CHK1

Do Not Transmit Check Character After Verification



@I25CHK2

Transmit Check Character After Verification



If the **Do Not Transmit Check Character After Verification** option is enabled, Interleaved 2 of

5 barcodes with a length that is less than the configured minimum length after having the check character excluded will not be decoded. (For example, when the **Do Not Transmit Check Character After Verification** option is enabled and the minimum length is set to 4, Interleaved 2 of 5 barcodes with a total length of 4 characters including the check character cannot be read.)

Matrix 2 of 5

Restore Factory Defaults



@M25DEF

Restore the Factory Defaults of Matrix 2 of 5

Enable/Disable Matrix 2 of 5



@M25ENA1

**** Enable Matrix 2 of 5**



@M25ENAO

Disable Matrix 2 of 5



If the scanner fails to identify Matrix 2 of 5 barcodes, you may first try this solution by scanning the **Enable Matrix 2 of 5** barcode.

Set Length Range for Matrix 2 of 5

The scanner can be configured to only decode Matrix 2 of 5 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.



@M25MIN

Set the Minimum Length (Default: 4)



@M25MAX

Set the Maximum Length (Default: 80)



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



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

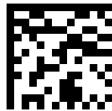
1. Scan the **Set the Minimum Length** barcode.
2. Scan the numeric barcode "8" from the "Digit Barcodes" section in Appendix.
3. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.
4. Scan the **Set the Maximum Length** barcode.
5. Scan the numeric barcodes "1" and "2" from the "Digit Barcodes" section in Appendix.
6. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.

Check Character Verification

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

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

Since Matrix 2 of 5 must always have an even number of digits, a zero may need to be added as the first digit when the check character is added. The check character is automatically generated when making Matrix 2 of 5 barcodes.



@M25CHK0

**** Disable**



@M25CHK1

Do Not Transmit Check Character After Verification



@M25CHK2

Transmit Check Character After Verification



If the **Do Not Transmit Check Character After Verification** option is enabled, Matrix 2 of 5 barcodes with a length that is less than the configured minimum length after having the check character excluded will not be decoded. (For example, when the **Do Not Transmit Check Character After Verification** option is enabled and the minimum length is set to 4, Matrix 2 of 5 barcodes with a total length of 4 characters including the check character cannot be read.)

Industrial 25

Restore Factory Defaults



@L25DEF

Restore the Factory Defaults of Industrial 25

Enable/Disable Industrial 25



@L25ENA1

Enable Industrial 25



@L25ENA0

**** Disable Industrial 25**



If the scanner fails to identify Industrial 25 barcodes, you may first try this solution by scanning the **Enable Industrial 25** barcode.

Set Length Range for Industrial 25

The scanner can be configured to only decode Industrial 25 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.



@L25MIN

Set the Minimum Length (Default: 6)



@L25MAX

Set the Maximum Length (Default: 48)



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



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

1. Scan the **Set the Minimum Length** barcode.
2. Scan the numeric barcode "8" from the "Digit Barcodes" section in Appendix.
3. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.
4. Scan the **Set the Maximum Length** barcode.
5. Scan the numeric barcodes "1" and "2" from the "Digit Barcodes" section in Appendix.
6. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.

Check Character Verification

A check character is optional for Industrial 25 and can be added as the last character. 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 Character After Verification:** The scanner checks the integrity of all Industrial 25 barcodes to verify that the data complies with the check character algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.
- ❖ **Transmit Check Character After Verification:** The scanner checks the integrity of all Industrial 25 barcodes to verify that the data complies with the check character algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.



@L25CHK0

**** Disable**



@L25CHK1

Do Not Transmit Check Character After Verification



@L25CHK2

Transmit Check Character After Verification



If the **Do Not Transmit Check Character After Verification** option is enabled, Industrial 25 barcodes with a length that is less than the configured minimum length after having the check character excluded will not be decoded. (For example, when the **Do Not Transmit**

Check Character After Verification option is enabled and the minimum length is set to 4, Industrial 25 barcodes with a total length of 4 characters including the check character cannot be read.)

ITF-14

ITF-14 is a special kind of Interleaved 2 of 5 with a length of 14 characters and the last character as the check character.

ITF-14 priority principle: For the Interleaved 2 of 5 barcodes with a length of 14 characters and the last character as the check character, the ITF-14 configurations shall take precedence over the Interleaved 2 of 5 settings.

Restore Factory Defaults



@I14DEF

Restore the Factory Defaults of ITF-14

Enable/Disable ITF-14



@I14ENAO

**** Disable ITF-14**



@I14ENA1

Enable ITF-14 But Do Not Transmit Check Character



@I14ENA2

Enable ITF-14 and Transmit Check Character



An example of the ITF-14 priority principle: when ITF-14 is enabled and Interleaved 2 of 5 is disabled, the scanner only decodes Interleaved 2 of 5 barcodes with a length of 14 characters and the last character as the check character.

ITF-6

ITF-6 is a special kind of Interleaved 2 of 5 with a length of 6 characters and the last character as the check character.

ITF-6 priority principle: For the Interleaved 2 of 5 barcodes with a length of 6 characters and the last character as the check character, the ITF-6 configurations shall take precedence over the Interleaved 2 of 5 settings.

Restore Factory Defaults



@IT6DEF

Restore the Factory Defaults of ITF-6

Enable/Disable ITF-6



@IT6ENAO

**** Disable ITF-6**



@IT6ENA1

Enable ITF-6 But Do Not Transmit Check Character



@IT6ENA2

Enable ITF-6 and Transmit Check Character



An example of the ITF-6 priority principle: when ITF-6 is enabled and Interleaved 2 of 5 is disabled, the scanner only decodes Interleaved 2 of 5 barcodes with a length of 6 characters and the last character as the check character.

Standard 25

Restore Factory Defaults



@S25DEF

Restore the Factory Defaults of Standard 25

Enable/Disable Standard 25



@S25ENA1

Enable Standard 25



@S25ENAO

**** Disable Standard 25**



If the scanner fails to identify Standard 25 barcodes, you may first try this solution by scanning the **Enable Standard 25** barcode.

Set Length Range for Standard 25

The scanner can be configured to only decode Standard 25 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.



@S25MIN

Set the Minimum Length (Default: 6)



@S25MAX

Set the Maximum Length (Default: 48)



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



Set the scanner to decode Standard 25 barcodes containing between 8 and 12 characters:

1. Scan the **Set the Minimum Length** barcode.
2. Scan the numeric barcode "8" from the "Digit Barcodes" section in Appendix.
3. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.
4. Scan the **Set the Maximum Length** barcode.
5. Scan the numeric barcodes "1" and "2" from the "Digit Barcodes" section in Appendix.
6. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.

Check Character Verification

A check character is optional for Standard 25 and can be added as the last character. 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 Character After Verification:** The scanner checks the integrity of all Standard 25 barcodes to verify that the data complies with the check character algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.
- ❖ **Transmit Check Character After Verification:** The scanner checks the integrity of all Standard 25 barcodes to verify that the data complies with the check character algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.



@S25CHK0

**** Disable**



@S25CHK1

**Do Not Transmit Check Character After
Verification**



@S25CHK2

**Transmit Check Character After
Verification**



If the **Do Not Transmit Check Character After Verification** option is enabled, Standard 25 barcodes with a length that is less than the configured minimum length after having the

check character excluded will not be decoded. (For example, when the **Do Not Transmit Check Character After Verification** option is enabled and the minimum length is set to 4, Standard 25 barcodes with a total length of 4 characters including the check character cannot be read.)

COOP 25

Restore Factory Defaults



@COPDEF

Restore the Factory Defaults of COOP 25

Enable/Disable COOP 25



@COPENA1

****Enable COOP 25**



@COPENA0

Disable COOP 25

Set Length Range for COOP 25

The scanner can be configured to only decode COOP 25 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.



@COPMIN

Set the Minimum Length (Default: 1)



@PLYMAX

Set the Maximum Length (Default: 48)



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



Set the scanner to decode COOP 25 barcodes containing between 8 and 12 characters:

1. Scan the **Set the Minimum Length** barcode.
2. Scan the numeric barcode "8" from the "Digit Barcodes" section in Appendix.
3. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.
4. Scan the **Set the Maximum Length** barcode.
5. Scan the numeric barcodes "1" and "2" from the "Digit Barcodes" section in Appendix.
6. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.

Check Character Verification

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

- ❖ **Disable:** The scanner transmits COOP 25 barcodes as is.
- ❖ **Enable But Do Not Transmit Check Character:** The scanner checks the integrity of all COOP 25 barcodes to verify that the data complies with the check character algorithm. Barcodes passing the check will be transmitted except the last digit, whereas those failing it will not be transmitted.
- ❖ **Enable And Transmit Check Character:** The scanner checks the integrity of all COOP 25 barcodes to verify that the data complies with the check character algorithm. Barcodes passing the check will be transmitted, whereas those failing it will not be transmitted.



@COPCHK0

**** Disable**



@COPCHK1

Enable But Do Not Transmit Check Character



@COPCHK2

**Transmit Check Character After
Verification**

Deutsche 14

Restore Factory Defaults



@D14DEF

Restore the Factory Defaults of Deutsche 14

Enable/Disable Deutsche 14



@D14ENA1

Enable Deutsche 14 But Do Not Transmit

Check Digit



@D14ENA2

**Enable Deutsche 14 and Transmit Check
Digit**



@D14ENAO

****Disable**

Deutsche 12

Restore Factory Defaults



@D12DEF

Restore the Factory Defaults of Deutsche 12

Enable/Disable Deutsche 12



@D12ENA1

Enable Deutsche 12 But Do Not Transmit

Check Digit



@D12ENA2

**Enable Deutsche 12 and Transmit Check
Digit**



@D12ENAO

****Disable**

Plessey

Restore Factory Defaults



@PLYDEF

Restore the Factory Defaults of Plessey

Enable/Disable Plessey



@PLYENAI

Enable Plessey



@PLYENAO

**** Disable Plessey**



If the scanner fails to identify Plessey barcodes, you may first try this solution by scanning the **Enable Plessey** barcode.

Set Length Range for Plessey

The scanner can be configured to only decode Plessey barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.



@PLYMIN

Set the Minimum Length (Default: 4)



@PLYMAX

Set the Maximum Length (Default: 48)



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



Set the scanner to decode Plessey barcodes containing between 8 and 12 characters:

1. Scan the **Set the Minimum Length** barcode.
2. Scan the numeric barcode "8" from the "Digit Barcodes" section in Appendix.
3. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.
4. Scan the **Set the Maximum Length** barcode.
5. Scan the numeric barcodes "1" and "2" from the "Digit Barcodes" section in Appendix.
6. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.

Check Character Verification

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

- ❖ **Disable:** The scanner transmits Plessey barcodes as is.
- ❖ **Do Not Transmit Check Character After Verification:** The scanner checks the integrity of all Plessey barcodes to verify that the data complies with the check character algorithm. Barcodes passing the checks will be transmitted except the last two digits, whereas those failing them will not be transmitted.
- ❖ **Transmit Check Character After Verification:** The scanner checks the integrity of all Plessey barcodes to verify that the data complies with the check character algorithm. Barcodes passing the checks will be transmitted, whereas those failing them will not be transmitted.



@PLYCHK0

**** Disable**



@PLYCHK1

Do Not Transmit Check Character After Verification



@PLYCHK2

Transmit Check Character After Verification



If the **Do Not Transmit Check Character After Verification** option is enabled, Plessey barcodes with a length that is less than the configured minimum length after having the check characters excluded will not be decoded. (For example, when the **Do Not Transmit Check Character After Verification** option is enabled and the minimum length is set to 4,

Plessey barcodes with a total length of 4 characters including the check characters cannot be read.)

MSI-Plessey

Restore Factory Defaults



@MSIDEF

Restore the Factory Defaults of MSI-Plessey

Enable/Disable MSI-Plessey



@MSIENA1

Enable MSI-Plessey



@MSIENA0

**** Disable MSI-Plessey**



If the scanner fails to identify MSI-Plessey barcodes, you may first try this solution by scanning the **Enable MSI-Plessey** barcode.

Set Length Range for MSI-Plessey

The scanner can be configured to only decode MSI-Plessey barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.



@MSIMIN

Set the Minimum Length (Default: 4)



@MSIMAX

Set the Maximum Length (Default: 48)



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



Set the scanner to decode MSI-Plessey barcodes containing between 8 and 12 characters:

1. Scan the **Set the Minimum Length** barcode.
2. Scan the numeric barcode "8" from the "Digit Barcodes" section in Appendix.
3. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.
4. Scan the **Set the Maximum Length** barcode.
5. Scan the numeric barcodes "1" and "2" from the "Digit Barcodes" section in Appendix.
6. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.

Check Character Verification

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

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



@MSICK0

Disable



@MSICK1

**** One Check Character, MOD10**



@MSICK2

Two Check Characters, MOD10/MOD10



@MSICK3

Two Check Characters, MOD10/MOD11

Transmit Check Character



@MSITCK1

**** Transmit MSI-Plessey Check
Character**



@MSITCK0

Do Not Transmit MSI-Plessey Check Character



If you select a check character algorithm and the **Do Not Transmit Check Character** option, MSI-Plessey barcodes with a length that is less than the configured minimum length after having the check character(s) excluded will not be decoded. (For example, when the One Check Character, **MOD10** and **Do Not Transmit Check Character** options are enabled and the minimum length is set to 4, MSI-Plessey barcodes with a total length of 4 characters including the check character cannot be read.)

QR Code

Restore Factory Defaults



@QRCDEF

Restore the Factory Defaults of QR Code

Enable/Disable QR Code



@QRCENAI

**** Enable QR Code**



@QRCENAO

Disable QR Code



If the scanner fails to identify QR Code barcodes, you may first try this solution by scanning the **Enable QR Code** barcode.

Set Length Range for QR Code

The scanner can be configured to only decode QR Code barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.



@QRCMIN

Set the Minimum Length (Default: 1)



@QRCMAX

Set the Maximum Length (Default: 7089)



Minimum length is not allowed to be greater than maximum length. If you only want to read QR Code barcodes with a specific length, set both minimum and maximum lengths to be that desired length.



Set the scanner to decode QR Code barcodes containing between 8 and 12 characters:

1. Scan the **Set the Minimum Length** barcode.
2. Scan the numeric barcode "8" from the "Digit Barcodes" section in Appendix.
3. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.
4. Scan the **Set the Maximum Length** barcode.
5. Scan the numeric barcodes "1" and "2" from the "Digit Barcodes" section in Appendix.
6. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.

QR Inverse

Regular barcode: Dark bars on a bright background.

Inverse barcode: Bright bars on a dark background.



@QRCINV0

Decode Regular QR Barcodes Only



@QRCINV2

**** Decode Both**

Character Encoding



@QRCENCO

**** Default Character Encoding**



@QRCENCI

UTF-8

QR ECI Output



@QRCEC10

Disable QR ECI Output



@QRCEC11

** Enable QR ECI Output

Continuous Code



@QRCMFE1

****On**



@QRCMFE0

Off

Dot-peen Code



@QRCDFE1

****On**



@QRCDFE0

Off

Mirror Code

For QR, when you have enabled Image Mirror, processes reverse printed or marked codes (mirrored images).



@QRCMRE0

Off



@QRCMRE1

****On**

QR Model 1

You can set disable and enable QR model 1 through the following setting code.



@QRCMIE0

Off



@QRCMIE1

****On**

QR Model 2

Model 2 of QR code is an improved version of model 1, which can also read data smoothly when the QR code is deformed. You can set disable and enable QR model 2 through the following setting code.



@QRCM2E0

****On**



@QRCM2E1

Off

Micro QR



@MQRENA0

Disable Micro QR Code



@MQRENAI

**** Enable Micro QR Code**

Data Matrix

Restore Factory Defaults



@DMCDEF

Restore the Factory Defaults of Data Matrix

Enable/Disable Data Matrix



@DMCENAI

**** Enable Data Matrix**



@DMCENAO

Disable Data Matrix

Set Length Range for Data Matrix

The scanner can be configured to only decode Data Matrix barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.



@DMCMIN

Set the Minimum Length (Default: 1)



@DMCMAX

Set the Maximum Length (Default: 3116)



Minimum length is not allowed to be greater than maximum length. If you only want to read Data Matrix barcodes with a specific length, set both minimum and maximum lengths to be that desired length.

Example

Set the scanner to decode Data Matrix barcodes containing between 8 and 12 characters:

1. Scan the **Set the Minimum Length** barcode.
2. Scan the numeric barcode "8" from the "Digit Barcodes" section in Appendix.
3. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.
4. Scan the **Set the Maximum Length** barcode.
5. Scan the numeric barcodes "1" and "2" from the "Digit Barcodes" section in Appendix.
6. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.

Rectangular Barcode

Data Matrix has two formats:

Square barcodes having the same amount of modules in length and width: 10*10, 12*12... 144*144.

Rectangular barcodes having different amounts of modules in length and width: 6*16, 6*14...14*22.



@DMCREC1

**** Enable Rectangular Barcode**



@DMCRECO

Disable Rectangular Barcode

Data Matrix Inverse

Regular barcode: Dark bars on a bright background.

Inverse barcode: Bright bars on a dark background.



@DMCINV0

Decode Regular Data Matrix Barcodes Only



@DMCINV2

**** Decode Both**

Character Encoding



@DMCENCO

**** Default Character Encoding**



@DMCENCI

UTF-8

Data Matrix ECI Output



@DMCECIO

Disable Data Matrix ECI Output



@DMCECI

**** Enable Data Matrix ECI Output**

ECC200



@DMCE2E0

Off



@DMCE2E1

**** On**

ECC0TO140



@DMCE0E0

Off



@DMCE0E1

**** On**

Continuous Code



@DMCMFE1

****On**



@DMCMFE0

Off

Dot-peen Code



@DMCDFE1

On



@DMCDFE0

****Off**

Mirror Code

For Data Matrix, when you have enabled Image Mirror, processes reverse printed or marked codes (mirrored images).



@DMCMRE0

Off



@DMCMRE1

****On**

PDF417

Restore Factory Defaults



@PDFDEF

Restore the Factory Defaults of PDF417

Enable/Disable PDF417



@PDFENA1

**** Enable PDF417**



@PDFENAO

Disable PDF417



If the scanner fails to identify PDF417 barcodes, you may first try this solution by scanning the **Enter Setup** barcode and then **Enable PDF417** barcode.

Set Length Range for PDF417

The scanner can be configured to only decode PDF417 barcodes with lengths that fall between (inclusive) the minimum and maximum lengths. To accomplish it, you need to set the minimum and maximum lengths.



@PDFMIN

Set the Minimum Length (Default: 1)



@PDFMAX

Set the Maximum Length (Default: 2710)



Minimum length is not allowed to be greater than maximum length. If you only want to read PDF417 barcodes with a specific length, set both minimum and maximum lengths to be that desired length.

Example

Set the scanner to decode PDF417 barcodes containing between 8 and 12 characters:

1. Scan the **Set the Minimum Length** barcode.
2. Scan the numeric barcode "8" from the "Digit Barcodes" section in Appendix.
3. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.
4. Scan the **Set the Maximum Length** barcode.
5. Scan the numeric barcodes "1" and "2" from the "Digit Barcodes" section in Appendix.
6. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.

PDF417 Inverse

Regular barcode: Dark bars on a bright background.

Inverse barcode: Bright bars on a dark background.



@PDFINV0

Decode Regular PDF417 Barcodes Only



@PDFINV1

Decode Inverse PDF417 Barcodes Only



@PDFINV2

****Decode Both**

Character Encoding



@PDFENCO

**** Default Character Encoding**



@PDFENC1

UTF-8

Chapter 8 Prefix & Suffix

Introduction

A 1D barcode could contain digits, letters, symbols, etc. A 2D barcode could contain more data, such as Chinese characters and other multi-byte characters. However, in real applications, they do not and should not have all information we need, such as barcode type, data acquisition time and delimiter, in order to keep the barcodes short and flexible.

Prefix and suffix are how to fulfill the needs mentioned above. They can be added, removed and modified while the original barcode data remains intact.



Barcode processing procedure:

1. Edit data with Data Formatter
2. Append prefix/suffix
3. Pack data
4. Append terminating character

Global Settings

Enable/Disable All Prefixes/Suffixes

Disable All Prefixes/Suffixes: Transmit barcode data with no prefix/suffix.

Enable All Prefixes/Suffixes: Allow to append Code ID prefix, AIM ID prefix, custom prefix/suffix and terminating character to the barcode data before the transmission.



@APSENA0

Disable All Prefixes/Suffixes



@APSENA1

Enable All Prefixes/Suffixes

Prefix Sequence



@PRESEQ0

** Code ID+ Custom +AIM ID



@PRESEQ1

Custom + Code ID + AIM ID

Custom Prefix

Enable/Disable Custom Prefix

If custom prefix is enabled, you are allowed to append to the data a user-defined prefix that cannot exceed 10 characters. For example, if the custom prefix is "AB" and the barcode data is "123", the Host will receive "AB123".



@CPRENA0

** Disable Custom Prefix



@CPRENA1

Enable Custom Prefix

Set Custom Prefix

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

Note: A custom prefix cannot exceed 10 characters.



@CPRSET

Set Custom Prefix

E
xample

Set the custom prefix to "CODE" (HEX: 0x43/0x4F/0x44/0x45):

1. Scan the **Set Custom Prefix** barcode.

2. Scan the numeric barcodes "4", "3", "4", "F", "4", "4", "4" and "5" from the "Digit Barcodes" section in Appendix.
3. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.
4. Scan the **Enable Custom Prefix** barcode.

AIM ID Prefix

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



@AIDENA0

**** Disable AIM ID Prefix**



@AIDENA1

Enable AIM ID Prefix



AIM ID is not user programmable.

Code ID Prefix

Code ID can also be used to identify barcode type. Unlike AIM ID, Code ID is user programmable. Code ID can only consist of one or two English letters.



@CIDENA0

**** Disable Code ID Prefix**



@CIDENA1

Enable Code ID Prefix

Restore All Default Code IDs

For the information of default Code IDs, see the “Code ID Table” section in Appendix.



@CIDDEF

Restore All Default Code IDs

Modify Code ID

See the examples below to learn how to modify a Code ID and restore the default Code IDs of all symbologies.

E *xample*

Modify PDF417 Code ID to be “p” (HEX: 0x70):

1. Scan the **Modify PDF417 Code ID** barcode.
2. Scan the numeric barcodes “7” and “0” from the “Digit Barcodes” section in Appendix.
3. Scan the **Save** barcode from the “Save/Cancel Barcodes” section in Appendix.

Restore the default Code IDs of all symbologies:

1. Scan the **Restore All Default Code IDs** barcode.

1D symbologies:



@CID002

Modify Code 128 Code ID



@CID003

Modify GS1-128 Code ID



@CID004

Modify EAN-8 Code ID



@CID005

Modify EAN-13 Code ID



@CID006

Modify UPC-E Code ID



@CID007

Modify UPC-A Code ID



@CID008

Modify Interleaved 2 of 5 Code ID



@CID009

Modify ITF-14 Code ID



@CID010

Modify ITF-6 Code ID



@CID011

Modify Matrix 2 of 5 Code ID



@CID013

Modify Code 39 Code ID



@CID015

Modify Codabar Code ID



@CID017

Modify Code 93 Code ID



@CID020

Modify AIM 128 Code ID



@CID021

Modify ISBT 128 Code ID



@CID022

Modify COOP 25 Code ID



@CID023

Modify ISSN Code ID



@CID024

Modify ISBN Code ID



@CID025

Modify Industrial 25 Code ID



@CID026

Modify Standard 25 Code ID



@CID027

Modify Plessey Code ID



@CID028

Modify Code 11 Code ID



@CID029

Modify MSI-Plessy Code ID



@CID128

Modify Deutsche 14 Code ID



@CID129

Modify Deutsche 12 Code ID

2D symbologies:



@CID032

Modify PDF417 Code ID



@CID033

Modify QR Code ID



@CID035

Modify Data Matrix Code ID



@CID043

Modify Micro QR Code ID

Custom Suffix

Enable/Disable Custom Suffix

If custom suffix is enabled, you are allowed to append to the data a user-defined suffix that cannot exceed 10 characters. For example, if the custom suffix is "AB" and the barcode data is "123", the Host will receive "123AB".



@CSUENAO

** Disable Custom Suffix



@CSUENAI

Enable Custom Suffix

Set Custom Suffix

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

Note: A custom suffix cannot exceed 10 characters.



@CSUSET

Set Custom Suffix

E
xample

Set the custom suffix to "CODE" (HEX: 0x43/0x4F/0x44/0x45):

1. Scan the **Set Custom Suffix** barcode.
2. Scan the numeric barcodes "4", "3", "4", "F", "4", "4", "4" and "5" from the "Digit Barcodes" section in Appendix.
3. Scan the **Save** barcode from the "Save/Cancel Barcodes" section in Appendix.
4. Scan the **Enable Custom Suffix** barcode.

Terminating Character Suffix

Enable/Disable Terminating Character Suffix

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



@TSUENAO

Disable Terminating Character Suffix



@TSUENA1

**** Enable Terminating Character Suffix**

Set Terminating Character Suffix

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

Note: A terminating character suffix cannot exceed 2 characters.



@TSUSET

Set Terminating Character Suffix



@TSUSETOD

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



@TSUSETODOA

Set Terminating Character to CRLF (0x0D,0x0A)

Set the terminating character suffix to 0x0A:

1. Scan the **Set Terminating Character Suffix** barcode.
2. Scan the numeric barcodes “0” and “A” from the “Digit Barcodes” section in Appendix.
3. Scan the **Save** barcode from the “Save/Cancel Barcodes” section in Appendix.
4. Scan the **Enable Terminating Character Suffix** barcode.

Chapter 9 Batch Programming

Introduction

Batch programming enables users to integrate a batch of commands into a single batch barcode.

Listed below are batch programming rules:

1. Command format: Command + Parameter Value.
2. Each command is terminated by a semicolon (;). Note that there is no space between a command and its terminator semicolon.
3. Use the barcode generator software to generate a 2D batch barcode.

Example: Create a batch barcode for **Illumination On, Sense Mode, Decode Session Timeout = 2s**:

1. Input the commands:

```
@ILLSCN1;SCNMOD2;ORTSET2000;
```

2. Generate a batch barcode.

When setting up a scanner with the above configuration, scan the **Enable Batch Barcode** barcode and then the batch barcode generated.



@BATCHS

Enable Batch Barcode

Create a Batch Command

A batch command can contain many individual commands. Each individual command is separated by a semicolon.

Command structure: command (+ setting information).

There are three types of setting commands.

1. Setup syntax 1: Command

The most commands in this form are the setting commands that can be completed at one time without using data codes.

E.g:

The command to set the baud rate to 38400 is @ 232BAD6

The command to set automatic code reading is @ SCNMOD2

2. Setting syntax 2: Command + number

This form of command is used to set the values of some parameters, including: maximum and minimum length of barcode reading, timeout setting of one reading, delay setting of same reading, sensitivity setting, etc.

E.g:

The command to set the delay time of one code reading to 3000 milliseconds is: @ ORTSET3000

The command to set the decoded sound duration to 100 milliseconds is: @ GRBDUR100

3. Setup syntax 3: Command + Hexadecimal

This form of command can be used to set custom prefix, custom suffix, terminator suffix, CodeID, etc.

Note: Every two hexadecimal characters in the command represent a character to be set.

E.g:

The command to set the custom prefix to "J" is: @ CPRSET4A

The command to set the CodeID of Code128 to "j" is: @ CID0026A

Create a Batch Barcode

Batch barcodes can be produced in the format of PDF417, QR Code or Data Matrix. It is recommended to use a two-dimensional barcode.

Example: Create a batch barcode for **Illumination On, Sense Mode, Decode Session Timeout = 2s, and the reading of Interleaved 2 of 5 barcodes is prohibited;**

1. Input the following commands:

```
@ILLSCN1;SCNMOD2;ORTSET2000;I25ENA0;
```

2. Generate a Data Matrix batch barcode as follows.



Use Batch Barcode

To put a batch barcode into use, scan the following barcodes. (Use the example above.)



@BATCHS

Enable Batch Barcode



Batch Barcode

Appendix

Digit Barcodes

0~9



@DIGIT0

0



@DIGIT1

1



@DIGIT2

2



@DIGIT3

3



@DIGIT4

4



@DIGIT5

5



@DIGIT6

6



@DIGIT7

7



@DIGIT8

8



@DIGIT9

9

A~F



@DIGITA

A



@DIGITB

B



@DIGITC

C



@DIGITD

D



@DIGITE

E



@DIGITF

F

Save/Cancel Barcodes

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

For instance, after reading the **Maximum Length** barcode and numeric barcodes "1", "2" and "3", you scan:

- ✧ **Delete the Last Digit:** The last digit "3" will be removed.
- ✧ **Delete All Digits:** All digits "123" will be removed.
- ✧ **Cancel:** The maximum length configuration will be cancelled. And the scanner is still in the setup mode.



@DIGSAV

Save



@DIGCAN

Cancel



@DIGDEL

Delete the Last Digit



@DIGDAL

Delete All Digits

Factory Defaults Table

Parameter	Factory Default	Remark
System Settings		
Barcode Programming	Disabled (Exit Setup)	
Programming Barcode Data	Do not transmit	
Illumination	On	
Illumination Brightness	Normal	
Illumination Color	Red LED and White LED	
Interval Time of Illumination switching	2000ms	
Aiming	Normal	
Good Read LED	On	
Good Read LED Duration	Short (20ms)	
Power On Beep	On	
Good Read Beep	On	
Good Read Beep Duration	Medium (80ms)	
Good Read Beep Frequency	Medium (2730Hz)	
Good Read Beep Volume	Loud	
Number of Good Read Beeps	1	
Good Read Beep Interval Time	Short	
Good Read Vibration	Off	
Good Read Vibration Duration	300ms	
Default Scan Mode	Level Mode	
Decode Session Timeout	3,000ms	1-3,600,000ms; 0: infinite.
Timeout between Decodes	500ms	1-10,000ms
Reread Timeout	Enabled, 15,000ms	1-3,600,000ms
Good Read Delay	Disabled, 500ms	1-3,600,000ms
Image Decoding Timeout	350ms	1-3,000ms
Sensitivity	Level 1	Level 1-20
Scanning Preference	Normal Mode	
Read Barcode	On	
Decode Area	Priori On Aimed Barcode	
Specify Decoding Area	40% top, 60% bottom, 40% left, 60% right	
Image Resize	Original Image	
Image Flipping	Do Not Flip	

Smart Stand Mode	On	
Default Interface	USB HID Keyboard	
RS-232 Interface		
Baud Rate	115200	
Parity Check	None	
Data Bits	8	
Stop Bits	1	
Hardware Auto Flow Control	Disabled	
USB Interface		
USB Country Keyboard	US keyboard	USB HID Keyboard
Beep on Unknown Character	Off	USB HID Keyboard
Emulate ALT+Keypad	Off	USB HID Keyboard
Code Page	Code Page 1252 (West European Latin)	USB HID Keyboard
Unicode Encoding	Off	USB HID Keyboard
Function Key Mapping	Disable	USB HID Keyboard
Inter-Keystroke Delay	No Delay	USB HID Keyboard
Convert Case	No Case Conversion	USB HID Keyboard
Emulate Numeric Keypad 1	Disabled	USB HID Keyboard
Emulate Numeric Keypad 2	Disabled	USB HID Keyboard
Polling Rate	4ms	USB HID Keyboard
Leading Zero	On	
External Keyboard Setting		
External Keyboard Connected	On	
Wireless Communication		
Batch Mode Option	Off	
Prevent Same Barcode Storage	Off	
Batch Mode Transmit Delay	No Transmit Delay (0ms)	
Auto Clear Stored Data after Transmission	Off	
Radio Communication Modes	Point-to-Point Mode	
Retransmission	Off	
Wireless Scanner Sleep Timeout	15s	
Wireless Scanner Shutdown Timeout	30min	
When The Wireless Scanner Is Placed On The Cradle	Disable Reading Barcode	
Symbologies		
Global Settings		
Image Brightness Adaptation 1	15	

Image Brightness Adaptation 2	10	
ID Decoding Complexity	Medium	
ID Inverse	Regular and Inverse	
Code 128		
Code 128	Enabled	
Maximum Length	48	
Minimum Length	1	
EAN-8		
EAN-8	Enabled	
Check Character	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Add-On Code	Not Required	
Add-On Code Separator	Off	
Convert EAN-8 to EAN-13	Disabled	
EAN-13		
EAN-13	Enabled	
Check Character	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Add-On Code	Not required	
Add-On Code Separator	Off	
EAN-13 Beginning with 290 Add-On Code Required	Do Not Require Add-On Code	
EAN-13 Beginning with 378/379 Add-On Code Required	Do Not Require Add-On Code	
EAN-13 Beginning with 414/419 Add-On Code Required	Do Not Require Add-On Code	
EAN-13 Beginning with 434/439 Add-On Code Required	Do Not Require Add-On Code	
EAN-13 Beginning with 977 Add-On Code Required	Do Not Require Add-On Code	
EAN-13 Beginning with 978 Add-On Code Required	Do Not Require Add-On Code	
EAN-13 Beginning with 979 Add-On Code Required	Do Not Require Add-On Code	
UPC-E		
UPC-E0	Enabled	

UPC-E1	Disabled	
Check Character	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Add-On Code	Not required	
Add-On Code Separator	Off	
Transmit Preamble Character	System Character	
Convert UPC-E to UPC-A	Disabled	
UPC-A		
UPC-A	Enabled	
Check Character	Transmit	
2-Digit Add-On Code	Disabled	
5-Digit Add-On Code	Disabled	
Add-On Code	Not required	
Add-On Code Separator	Off	
Transmit Preamble Character	System Character	
Interleaved 2 of 5		
Interleaved 2 of 5	Enabled	
Check Character Verification	Disabled	
Maximum Length	80	
Minimum Length	6	
ITF-14		
ITF-14	Disabled	
ITF-6		
ITF-6	Disabled	
Matrix 2 of 5		
Matrix 2 of 5	Enabled	
Check Character Verification	Disabled	
Maximum Length	80	
Minimum Length	4	
Code 39		
Code 39	Enabled	
Check Character Verification	Disabled	
Start/Stop Character	Do not transmit	
Code 39 Full ASCII	Disabled	
Maximum Length	48	
Minimum Length	1	
Codabar		

Codabar	Enabled	
Check Character Verification	Disabled	
Start/Stop Character	Do not transmit ABCD/ABCD as Start/Stop Character	
Maximum Length	60	
Minimum Length	2	
Code 93		
Code 93	Disabled	
Check Character	Do not transmit	
Check Character Verification	Enabled	
Maximum Length	48	
Minimum Length	1	
GS1-128 (UCC/EAN-128)		
GS1-128	Enabled	
Maximum Length	48	
Minimum Length	1	
AIM 128		
AIM 128	Disabled	
Maximum Length	48	
Minimum Length	1	
Check Character	Do not transmit	
ISBT 128		
ISBT 128	Disabled	
Code 11		
Code 11	Disabled	
Check Character	Transmit	
Check Character Verification	One Check Character, MOD11	
Maximum Length	48	
Minimum Length	4	
ISBN		
ISBN	Disabled	
ISBN Format	ISBN-10	
ISSN		
ISSN	Disabled	
Industrial 25		
Industrial 25	Disabled	
Check Character Verification	Disabled	
Maximum Length	48	

Minimum Length	6	
Standard 25		
Standard 25	Disabled	
Check Character Verification	Disabled	
Maximum Length	48	
Minimum Length	6	
COOP 25		
COOP 25	Enabled	
Check Character Verification	Disabled	
Maximum Length	48	
Minimum Length	1	
Deutsche 14		
Deutsche 14	Disabled	
Deutsche 12		
Deutsche 12	Disabled	
Plessey		
Plessey	Disabled	
Check Character Verification	Disabled	
Maximum Length	48	
Minimum Length	4	
MSI-Plessey		
MSI-Plessey	Disabled	
Check Character	Transmit	
Check Character Verification	One Check Character, MOD10	
Maximum Length	48	
Minimum Length	4	
PDF417		
PDF417	Enabled	
PDF417 Inverse	Decode Both	
Character Encoding	Default Character Encoding	
Maximum Length	2710	
Minimum Length	1	
QR Code		
QR Code	Enabled	
Read Single QR Only	Enabled	
QR Inverse	Read regular & inverse barcodes	
Character Encoding	Default Character Encoding	
QR ECI Output	Enabled	

Maximum Length	7089	
Minimum Length	1	
QR Decoding Complexity	Medium	
Continuous Code	Enabled	
Dot-peen Code	Enabled	
Mirror Code	Enabled	
QR Model 1	Enabled	
QR Model 2	Enabled	
Data Matrix		
Data Matrix	Enabled	
Rectangular Barcode	Enabled	
Data Matrix Inverse	Read regular & inverse barcodes	
Character Encoding	Default Character Encoding	
Data Matrix ECI Output	Enabled	
Maximum Length	3116	
Minimum Length	1	
Data Matrix Decoding Complexity	medium	
ECC200	Enabled	
ECCTO140	Enabled	
Continuous Mode	Enabled	
Dot-peen Code	Enabled	
Mirror Code	Enabled	
Data Formatter		
Data Formatter	Disabled	
Non-Match Error Beep	On	
Data Format Selection	Format_0	
Prefix & Suffix		
Prefix Sequence	Code ID+ Custom +AIM ID	
Custom Prefix	Disabled	
AIM ID Prefix	Disabled	
Code ID Prefix	Disabled	
Custom Suffix	Disabled	
Terminating Character Suffix	Enabled	

AIM ID Table

Symbology	AIM ID	Possible AIM ID Modifiers (m)
Code 128	]C0	
GS1-128 (UCC/EAN-128)	]C1	
EAN-8	]E4	
EAN-8 with Addon	]E3	
EAN-13	]E0	
EAN-13 with Addon	]E3	
UPC-E	]E0	
UPC-E with Addon	]E3	
UPC-A	]E0	
UPC-A with Addon	]E3	
Interleaved 2 of 5	]Im	0, 1, 3
ITF-14	]Im	1, 3
ITF-6	]Im	1, 3
Matrix 2 of 5	]X0	
Code 39	]Am	0, 1, 3, 4, 5, 7
Codabar	]Fm	0, 2, 4
Code 93	]G0	
ISSN	]X0	
ISBN	]X0	
Industrial 25	]S0	
Standard 25	]R0	
COOP 25	]X0	
Deutsche 12	]X0	
Deutsche 14	]X0	
AIM 128	]C2	
Plessey	]P0	
Code 11	]Hm	0, 1, 3
MSI Plessey	]Mm	0, 1
PDF417	]Lm	0-2
QR Code	]Qm	0-6
Data Matrix	]dm	0-6
Micro QR	]Q1	

Note: "m" represents the AIM modifier character. Refer to ISO/IEC 15424:2008 Information technology – Automatic identification and data capture techniques – Data Carrier Identifiers (including Symbology Identifiers) for AIM modifier character details.

Code ID Table

Symbology	Code ID
Code128	j
GS1-128 (UCC/EAN-128)	j
EAN-8	d
EAN-13	d
UPC-E	c
UPC-A	c
Interleaved 2 of 5	e
ITF-14	e
ITF-6	e
Matrix 2 of 5	v
Code 39	b
Codabar	a
Code 93	i
AIM 128	X
COOP 25	X
Deutsche 12	X
Deutsche 14	X
ISSN	g
ISBN	B
Industrial 2/5	l
Standard 2/5	f
Plessey	n
Code 11	H
MSI Plessey	m
PDF417	r
QR Code	s
Data Matrix	u
Micro QR	X

Symbology ID Number

Symbology	ID Number
Code 128	002
GS1-128 (UCC/EAN-128)	003
EAN-8	004
EAN-13	005
UPC-E	006
UPC-A	007
Interleaved 2 OF 5	008
ITF-14	009
ITF-6	010
Matrix 2 of 5	011
Code 39	013
Codabar	015
Code 93	017
AIM 128	020
COOP 25	022
ISSN	023
ISBN	024
Industrial25	025
Standard25	026
Plessey	027
Code11	028
MSI-Plessey	029
PDF417	032
QR Code	033
Data Matrix	035
Deutsche 14	128
Deutsche 12	129
Micro QR	134

ASCII Table

Hex	Dec	Char
00	0	NUL (Null char.)
01	1	SOH (Start of Header)
02	2	STX (Start of Text)
03	3	ETX (End of Text)
04	4	EOT (End of Transmission)
05	5	ENQ (Enquiry)
06	6	ACK (Acknowledgment)
07	7	BEL (Bell)
08	8	BS (Backspace)
09	9	HT (Horizontal Tab)
0a	10	LF (Line Feed)
0b	11	VT (Vertical Tab)
0c	12	FF (Form Feed)
0d	13	CR (Carriage Return)
0e	14	SO (Shift Out)
0f	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)
1a	26	SUB (Substitute)
1b	27	ESC (Escape)
1c	28	FS (File Separator)
1d	29	GS (Group Separator)

Hex	Dec	Char
1e	30	RS (Request to Send)
1f	31	US (Unit Separator)
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	\$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	((Left/ Opening Parenthesis)
29	41	) (Right/ Closing Parenthesis)
2a	42	*
2b	43	+
2c	44	,
2d	45	- (Minus/ Dash)
2e	46	.
2f	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3a	58	:
3b	59	;
3c	60	< (Less Than)
3d	61	= (Equal Sign)

Hex	Dec	Char
3e	62	> (Greater Than)
3f	63	? (Question Mark)
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4a	74	J
4b	75	K
4c	76	L
4d	77	M
4e	78	N
4f	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5a	90	Z
5b	91	[(Left/ Opening Bracket)
5c	92	\ (Back Slash)
5d	93	] (Right/ Closing Bracket)

Hex	Dec	Char
5e	94	^ (Caret/ Circumflex)
5f	95	_ (Underscore)
60	96	' (Grave Accent)
61	97	a
62	98	b
63	99	c
64	100	d
65	101	e
66	102	f
67	103	g
68	104	h
69	105	i
6a	106	j
6b	107	k
6c	108	l
6d	109	m
6e	110	n
6f	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7a	122	z
7b	123	{ (Left/ Opening Brace)
7c	124	| (Vertical Bar)
7d	125	} (Right/ Closing Brace)
7e	126	~ (Tilde)
7f	127	DEL (Delete)

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The device must not be co-located or operating in conjunction with any other antenna or transmitter.

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