

## **MK-1000ZB Wireless Linear Imager Scanner**

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# **Configuration Guide**

# RELEASE NOTE

| Version                      | Date     | Notes                                                                                                                                                                                                                                                                                                                            |
|------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V3.21<br>(CCD v/s: V-3.1-CR) | 2010/8/1 | <ul style="list-style-type: none"><li>◆ Adding function : 3.8 Code 128 - FIELD SEPARATOR DEFINED<br/>(on page 32)</li><li>◆ Adding function : 3.17 GS1 Data Bar (RSS) - APPLICATION ID TRANSMISSIONFIELD<br/>(on page 50)</li><li>◆ Adding function : 3.17 GS1 Data Bar (RSS) / CHECKSUM TRANSMISSION<br/>(on page 50)</li></ul> |

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# Chapter 1 - System Information

## 1.1 About this manual

This User's Guide provides detailed programming instructions. Barcode scanners are factory programmed for the most common communication setting. If you need to change these settings, programming is accomplished by scanning the bar codes in this guide.

### 1.2 How to set up the parameter -I

- (1) Scan Start Configuration
- (2) Scan all necessary labels for parameters that meet your applications.
- (3) Scan End Configuration to end the programming.



Start configuration



End configuration



Default setting



Check Version

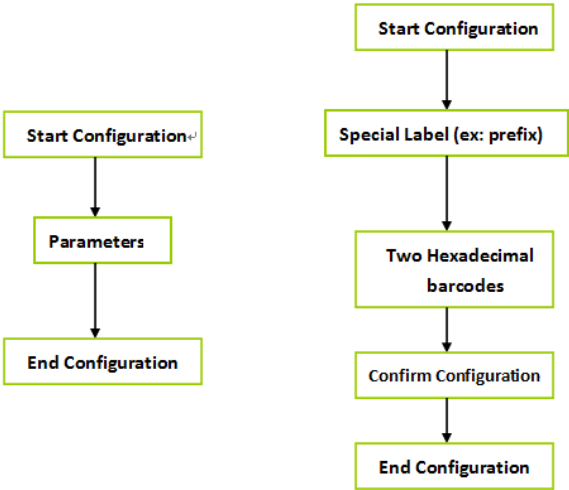
An asterisk (\*) next to an option indicate the default setting.

## 1.2 How to set up the parameter - II

Most of time the scanner only requests one read of parameters when changing to new values. You will hear two beeps when you successfully set to the new values. But for some special parameters, multiple reads are needed to complete the configuration. When use these special parameters. In some cases, you might need to read one or more barcodes, such as:

- ◆ Hexadecimal barcodes. For example: prefix, suffix, etc.
- ◆ Numeric barcodes. For example: inter-character delay, max/min length

To complete the change of setting you will need to read the “Confirm” barcode after you read the parameter. Below is the flow chart to explain two different configurations.



Chapter 2 - System setup



Start configuration



End configuration

2.1 Terminator

| ITEM              | OPTION                                                                                      |
|-------------------|---------------------------------------------------------------------------------------------|
| Output Characters | <br>None   |
|                   | <br>*CR+LF |
|                   | <br>CR     |
|                   | <br>LF   |
|                   | <br>Tab  |
|                   |                                                                                             |

## 2.2 String Options (Prefix & Suffix)

This section describes the alterations which can be made to the format of the transmitted data string. A prefix and suffix of maximum 10 direct input may be included in front and at the end of scanned barcode.

### Format

{Prefix} {Code ID} {Bar Code} {Suffix}

### How to set up a prefix?

To configure “##” as prefix

- (1) Scan Start Configuration barcode
- (2) Scan Preamble bar code
- (3) Scan “#” twice from FULL ASCII table
- (4) Scan Confirm configuration barcode
- (5) Scan End Configuration barcode.

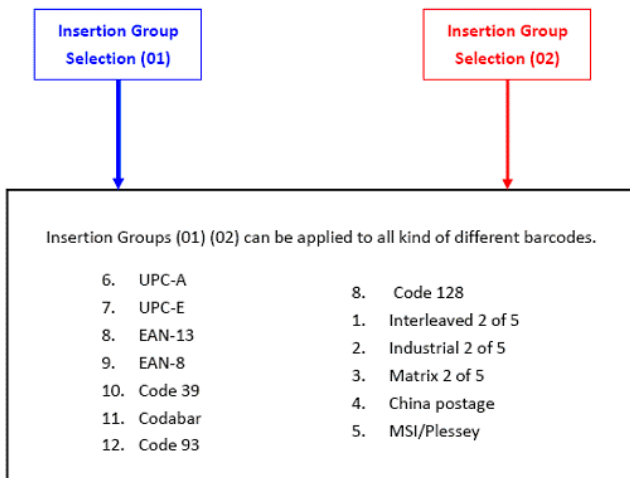
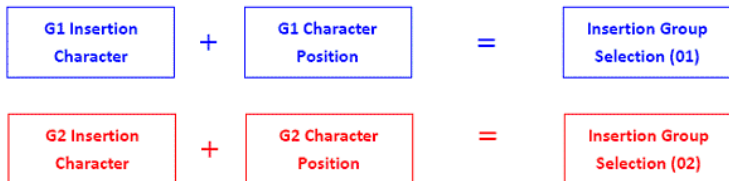
### How to set up a suffix?

To configure “\$\$” as suffix

- (1) Start configuration barcode
- (2) Scan Postamble barcode
- (3) Scan “\$” twice from FULL ASCII table
- (4) Scan Confirm configuration barcode
- (5) Scan End configuration barcode.

## 2.3 Setup Insertion

This section describes how to setup the insertion of output.



NOTE :

- ◆ Max. 10 charters can be inserted each time
- ◆ Max. Insertion group is only two.
- ◆ Insertion group (01) or (02) can be used in different kinds of barcodes at the same time

### Example:



:

To insert character "A" before the third digit(3)

Make the decoded data: 12A3456789

### How to set up a character you want to insert

- (1) Scan Start Configuration barcode
- (2) Scan "G1 Insertion character"
- (3) Scan "4" and "1" from FULL ASCII Table
- (4) Scan Confirm configuration barcode
- (5) Scan End configuration barcode

### How to set up position you wish to place the character

- (6) Scan Start Configuration barcode
- (7) Scan "G1 Character Position"
- (8) Scan "0" and "3" from FULL ASCII Table (which presents the position)
- (9) Scan Confirm configuration barcode
- (10) Scan End configuration barcode

### How to set up insertion for code 39

Go to chapter 3.5 (code 39)

- (11) Scan Start Configuration barcode
- (12) Scan "Insert group selection" bar code
- (13) scan "0" and "1" from FULL ASCII Table  
(which presents the group- 01 you just set up previously)
- (14) Scan Confirm configuration bar code
- (15) Scan End configuration barcode



Start configuration



End configuration



Confirm configuration

| ITEM                                                   | OPTION                                                                                               |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Preamble<br>(Default : 00)                             | <br>Ref: Appendix   |
| Postamble<br>(Default : 00)                            | <br>Ref: Appendix   |
| G1 Insertion character<br>(Default : 00)               | <br>Ref: Appendix   |
| G2 Insertion character<br>(Default : 00)               | <br>Ref: Appendix |
| G1 Character Position to be<br>inserted (Default : 00) | <br>Ref: Appendix |
| G2 Character Position to be<br>inserted (Default : 00) | <br>Ref: Appendix |



Start configuration



End configuration

ITEM

OPTION

Bar Code ID



\*Disable



Enable

Accuracy



\* Read 1 Time



Read 2 Times

Positive and negative bar codes



Negative bar codes



\*Positive bar codes

| Code Type | ID | Code Type         | ID |
|-----------|----|-------------------|----|
| UPC-A     | F  | Interleaved 25    | N  |
| UPC-E     | G  | Industrial 25     | O  |
| EAN-13    | H  | Matrix 25         | P  |
| EAN-8     | I  | China Postal Code | Q  |
| Code 39   | J  | MSI/Plessey       | R  |
| Codabar   | K  | Code 32           | S  |
| Code 93   | L  | Code 11           | T  |
| Code 128  | M  | Telepen           | V  |

Chapter 3 - BarCode parameters setting

How to set up a Code ID?

- (1) Scan Start configuration bar code
- (2) Go to the ASCII Table and scan label that represent the desired characters to be inserted.
- (3) Scan Confirm configuration bar code
- (4) Scan End configuration bar code.



Start configuration



End configuration



Confirm configuration

3.1 UPC-A

| ITEM                              | OPTION                 |
|-----------------------------------|------------------------|
| Read                              |                        |
|                                   | Disable                |
|                                   |                        |
|                                   | * Enable               |
| Code ID Setting<br>(Default : F ) |                        |
|                                   | Ref: Appendix (20-7EH) |



Start configuration



End configuration

| ITEM                             | OPTION                   |
|----------------------------------|--------------------------|
| UPC-A Expand to EAN-13           |                          |
|                                  | * Disable                |
|                                  |                          |
| Check Digit Send                 | Enable                   |
|                                  |                          |
|                                  | Disable                  |
| Truncate Leading Zero            |                          |
|                                  | * Disable                |
|                                  |                          |
| Truncate Leading<br>(Default:00) | Enable                   |
|                                  |                          |
|                                  | Ref: Appendix (00-0DH)   |
| Truncate Ending<br>(Default:00)  |                          |
|                                  | Ref: Appendix (00-0DH)   |
|                                  |                          |
| Insert group selection           |                          |
|                                  | Ref: Appendix ( 00—02H ) |
|                                  |                          |



Start configuration



End configuration

| ITEM              | OPTION                       |
|-------------------|------------------------------|
| Supplement digits |                              |
|                   | * NONE                       |
|                   |                              |
|                   | 2 digits                     |
|                   |                              |
|                   | 5 digits                     |
|                   |                              |
|                   | 2 or 5 digits                |
|                   |                              |
|                   | Auto-discriminate Supplement |

3.2 UPC-E



Start configuration



End configuration

| ITEM                             | OPTION                     |
|----------------------------------|----------------------------|
| Read                             |                            |
|                                  | Disable                    |
|                                  |                            |
|                                  | * Enable                   |
| Code ID setting<br>(Default : G) | <br>Ref: Appendix (20-7EH) |



Start configuration



End configuration

| ITEM                                   | OPTION                 |
|----------------------------------------|------------------------|
| UPC-E Expand to UPC-A                  |                        |
|                                        | * Disable              |
|                                        |                        |
| Check Digit Send                       | Enable                 |
|                                        |                        |
|                                        | Disable                |
| Truncate Leading<br>(Default:00)       |                        |
|                                        | * Enable               |
|                                        |                        |
| Truncate Ending<br>(Default:00)        | Ref: Appendix (00-08H) |
|                                        |                        |
|                                        | Ref: Appendix (00-08H) |
| Insert group selection<br>(Default:00) |                        |
|                                        | Ref: Appendix (00-02H) |
|                                        | Ref: Appendix (00-02H) |



Start configuration



End configuration

| ITEM                  | OPTION                                                                              |
|-----------------------|-------------------------------------------------------------------------------------|
| Truncate Leading Zero |    |
|                       | *Disable                                                                            |
|                       |    |
| Supplement digits     | Enable                                                                              |
|                       |    |
|                       | * None                                                                              |
|                       |    |
|                       | 2 digits                                                                            |
|                       |   |
|                       | 5 digits                                                                            |
|                       |  |
|                       | 2 or 5 digits                                                                       |
|                       |  |
|                       | Auto-discriminate Supplement                                                        |

3.3 EAN-13

|                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |    |
| Start configuration                                                               | End configuration                                                                   |
| <hr/>                                                                             |                                                                                     |
| ITEM                                                                              | OPTION                                                                              |
| <hr/>                                                                             |                                                                                     |
| Read                                                                              |    |
|                                                                                   | Disable                                                                             |
|                                                                                   | <hr/>                                                                               |
|                                                                                   |    |
|                                                                                   | * Enable                                                                            |
| <hr/>                                                                             |                                                                                     |
| Code ID setting<br>(Default : H)                                                  |    |
|                                                                                   | Ref: Appendix (20-7EH)                                                              |
| <hr/>                                                                             |                                                                                     |
| Check Digit Send                                                                  |   |
|                                                                                   | Disable                                                                             |
|                                                                                   | <hr/>                                                                               |
|                                                                                   |  |
|                                                                                   | * Enable                                                                            |
| <hr/>                                                                             |                                                                                     |
| Truncate Leading<br>(Default : 00 )                                               |  |
|                                                                                   | Ref: Appendix (00-0DH)                                                              |
| <hr/>                                                                             |                                                                                     |
| Truncate Ending<br>(Default : 00 )                                                |  |
|                                                                                   | Ref: Appendix (00-0DH)                                                              |
| <hr/>                                                                             |                                                                                     |



Start configuration



End configuration

| ITEM                                      | OPTION                                                                              |
|-------------------------------------------|-------------------------------------------------------------------------------------|
| Supplement digits                         |    |
|                                           | * None                                                                              |
|                                           |    |
|                                           | 2 digits                                                                            |
|                                           |    |
|                                           | 5 digits                                                                            |
| ISBN/ISSN Conversion                      |    |
|                                           | 2 or 5 digits                                                                       |
|                                           |   |
| Insert group selection<br>(Default : 00 ) | Auto-discriminate Supplement                                                        |
|                                           |  |
|                                           | * Disable                                                                           |
| Ref: Appendix (00-02H)                    |  |
|                                           | Enable                                                                              |
|                                           |  |

3.4 EAN-8



Start configuration



End configuration

| ITEM                               | OPTION                                                                              |
|------------------------------------|-------------------------------------------------------------------------------------|
| Read                               |    |
|                                    | Disable                                                                             |
|                                    |    |
|                                    | * Enable                                                                            |
| Code ID setting<br>(Default : I)   |    |
|                                    | Ref: Appendix (20-7EH)                                                              |
| Check Digit Send                   |    |
|                                    | Disable                                                                             |
|                                    |  |
|                                    | * Enable                                                                            |
| Truncate Leading<br>(Default : 00) |  |
|                                    | Ref: Appendix (00-08H)                                                              |



Start configuration



End configuration

| ITEM                                     | OPTION                                                                                                              |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Truncate Ending<br>(Default : 00)        | <br>Ref: Appendix (00-08H)         |
| Supplement digits                        | <br>* None                         |
|                                          | <br>2 digits                       |
|                                          | <br>5 digits                       |
|                                          | <br>2 or 5 digits                |
|                                          | <br>Auto-discriminate Supplement |
| Insert group selection<br>(Default : 00) | <br>Ref: Appendix (00-02H)       |

3.5 Code39



Start configuration



End configuration

| ITEM                             | OPTION                                                                              |
|----------------------------------|-------------------------------------------------------------------------------------|
| Read                             |    |
|                                  | Disable                                                                             |
|                                  |    |
|                                  | * Enable                                                                            |
| Code ID setting<br>(Default : J) |    |
|                                  | Ref: Appendix (20-7EH)                                                              |
| Check-sum verification           |    |
|                                  | * Disable                                                                           |
|                                  |  |
|                                  | Enable                                                                              |
| Check-sum transmission           |  |
|                                  | Disable                                                                             |
|                                  |  |
|                                  | * Enable                                                                            |



Start configuration



End configuration

| ITEM                               | OPTION                                                                              |
|------------------------------------|-------------------------------------------------------------------------------------|
| Append                             |    |
|                                    | * Disable                                                                           |
|                                    |    |
| Min. code length<br>(Default: 00)  | Enable                                                                              |
|                                    |    |
|                                    | Ref: Appendix (00-32H)                                                              |
| Max. code length<br>(Default: 32H) |    |
|                                    | Ref: Appendix (00-32H)                                                              |
| Format                             |   |
|                                    | * Standard Code39                                                                   |
|                                    |  |
|                                    | Code 39 Full ASCII                                                                  |



Start configuration



End configuration

| ITEM                                    | OPTION                                                                                                      |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Transmit Start/End Character            |                            |
|                                         | * Disable                                                                                                   |
|                                         |                            |
| Truncate Leading<br>(Default: 00)       | Enable                                                                                                      |
|                                         | <br>Ref: Appendix (00-32H) |
| Truncate Ending<br>(Default: 00)        |                            |
|                                         | Ref: Appendix (00-32H)                                                                                      |
| Insert group selection<br>(Default: 00) |                          |
|                                         | Ref: Appendix (00-02H)                                                                                      |

3.6 Codabar



Start configuration



End configuration

| ITEM                             | OPTION                                                                            |
|----------------------------------|-----------------------------------------------------------------------------------|
| Read                             |  |
|                                  | Disable                                                                           |
|                                  |  |
|                                  | * Enable                                                                          |
| Code ID setting<br>(Default : K) |  |
|                                  | Ref: Appendix (20-7EH)                                                            |



Start configuration



End configuration

| ITEM                             | OPTION                                                                              |
|----------------------------------|-------------------------------------------------------------------------------------|
| Check-sum verification           |    |
|                                  | Disable                                                                             |
|                                  |    |
| Check-sum transmission           | * Enable                                                                            |
|                                  |    |
|                                  | * Disable                                                                           |
| Append                           |    |
|                                  | Enable                                                                              |
|                                  |   |
| Truncate Leading<br>(Default:00) | * Disable                                                                           |
|                                  |  |
|                                  | Enable                                                                              |
| Truncate Leading<br>(Default:00) |  |
|                                  | Ref: Appendix (00-7EH)                                                              |



Start configuration



End configuration

| ITEM                              | OPTION                                                                                                        |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------|
| Truncate Ending<br>(Default:00)   | <br>Ref: Appendix (00-7EH)   |
| Start/End type                    | <br>* ABCD/ABCD              |
|                                   | <br>abcd/abcd                |
|                                   | <br>abcd/tn*e                |
| Start/End transmission            | <br>* Disable              |
|                                   | <br>Enable                 |
| Min. code length<br>(Default: 05) | <br>Ref: Appendix (00-3CH) |



Start configuration



End configuration

| ITEM                                    | OPTION                                                                                                      |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Max. code length<br>(Default: 3CH)      | <br>Ref: Appendix (00-3CH) |
| Insert group selection<br>(Default: 00) | <br>Ref: Appendix (00-02H) |

3.7 Code93



Start configuration



End configuration

| ITEM                             | OPTION                                                                              |          |
|----------------------------------|-------------------------------------------------------------------------------------|----------|
| Read                             |    |          |
|                                  | Disable                                                                             |          |
|                                  |    |          |
|                                  |                                                                                     | * Enable |
| Code ID setting<br>(Default : L) |    |          |
|                                  | Ref: Appendix (20-7EH)                                                              |          |
| Check-sum verification           |    |          |
|                                  | Disable                                                                             |          |
|                                  |  |          |
|                                  |                                                                                     | * Enable |



Start configuration



End configuration

| ITEM                               | OPTION                                                                                                        |
|------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Check-sum transmission             |                              |
|                                    | * Disable                                                                                                     |
|                                    |                              |
|                                    | Enable                                                                                                        |
| Min. code length<br>(Default: 00)  | <br>Ref: Appendix (0-50H)    |
| Max. code length<br>(Default: 50H) | <br>Ref: Appendix (0-50H)    |
| Truncate Leading<br>(Default: 00)  | <br>Ref: Appendix (00-7EH)  |
| Truncate Ending<br>(Default: 00)   | <br>Ref: Appendix (00-7EH) |
| Insert group selection             | <br>Ref: Appendix (00-02H) |

3.8 Code 128



Start configuration



End configuration

| ITEM                             | OPTION                                                                              |          |
|----------------------------------|-------------------------------------------------------------------------------------|----------|
| Read                             |    |          |
|                                  | Disable                                                                             |          |
|                                  |    |          |
|                                  |                                                                                     | * Enable |
| Code ID setting<br>(Default : M) |    |          |
|                                  | Ref: Appendix (20-7EH)                                                              |          |
| Check-sum verification           |   |          |
|                                  | Disable                                                                             |          |
|                                  |  |          |
|                                  |                                                                                     | * Enable |



Start configuration



End configuration

| ITEM                   | OPTION    |
|------------------------|-----------|
| Check-sum transmission |           |
|                        | * Disable |
|                        | Enable    |
| FNC2 Append            |           |
|                        | * Disable |
|                        | Enable    |
| UCC/EAN128             |           |
|                        | * Disable |
|                        | Enable    |
| FNC1 transmission      |           |
|                        | * Disable |
|                        | Enable    |



Start configuration



End configuration

| ITEM                                      | OPTION                                                                                                                       |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| FIELD SEPARATOR DEFINED<br>(GS CHARACTER) | <br>Enable Field Separator<br>Ref: Appendix |
| Truncate Leading<br>(Default: 00)         | <br>Ref: Appendix (00-7FH)                  |
| Truncate Ending<br>(Default: 00)          | <br>Ref: Appendix (00-7FH)                  |
| Min. code length<br>(Default: 00)         | <br>Ref: Appendix (00-7FH)                 |
| Max. code length<br>(Default: 7FH)        | <br>Ref: Appendix (00-7FH)                |
| Insert group selection<br>(Default: 00)   | <br>Ref: Appendix (00-02H)                |

3.9 Interleaved 2 of 5



Start configuration



End configuration

| ITEM                             | OPTION                 |
|----------------------------------|------------------------|
| Read                             |                        |
|                                  | * Disable              |
|                                  |                        |
| Enable                           |                        |
| Code ID setting<br>(Default : N) |                        |
|                                  | Ref: Appendix (20-7EH) |
| Check-sum verification           |                        |
|                                  | Disable                |
|                                  |                        |
| * Enable                         |                        |
| Check-sum transmission           |                        |
|                                  | Disable                |
|                                  |                        |
| * Enable                         |                        |



Start configuration



End configuration

| ITEM                                     | OPTION                                                                                                        |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Truncate Leading<br>(Default : 00)       | <br>Ref: Appendix (00-7EH)   |
| Truncate Ending<br>(Default : 00)        | <br>Ref: Appendix (00-7EH)   |
| Min. code length<br>(Default : 04)       | <br>Ref: Appendix (04-7FH)   |
| Max. code length<br>(Default : 7FH)      | <br>Ref: Appendix (00-7FH)   |
| Insert group selection<br>(Default : 00) | <br>Ref: Appendix (00-02H) |

3.10 Industrial 2 of 5



Start configuration



End configuration

| ITEM                                | OPTICON                    |
|-------------------------------------|----------------------------|
| Read                                |                            |
|                                     | * Disable                  |
|                                     |                            |
| Enable                              |                            |
| Code ID setting<br>(Default : 0)    | <br>Ref: Appendix (20-7EH) |
| Min. code length<br>(Default : 00)  | <br>Ref: Appendix (00-32H) |
| Max. code length<br>(Default : 32H) | <br>Ref: Appendix (00-32H) |



Start configuration



End configuration

| ITEM                                     | OPTION                                                                                                                                                                                                  |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Truncate Leading<br>(Default : 00)       | <br>Ref: Appendix (00-32H)                                                                                             |
| Truncate Ending<br>(Default : 00)        | <br>Ref: Appendix (00-32H)                                                                                             |
| Check-sum verification                   | <br>* Disable<br><hr/> <br>Enable     |
| Check-sum transmission                   | <br>Disable<br><hr/> <br>* Enable |
| Insert group selection<br>(Default : 00) | <br>Ref: Appendix (00-02H)                                                                                           |

3.11 Matrix 2 of 5



Start configuration



End configuration

| ITEM                             | OPTION                 |
|----------------------------------|------------------------|
| Read                             |                        |
|                                  | * Disable              |
|                                  |                        |
| Enable                           |                        |
| Code ID setting<br>(Default : P) |                        |
|                                  | Ref: Appendix (20-7EH) |
| Check-sum verification           |                        |
|                                  | * Disable              |
|                                  |                        |
| Enable                           |                        |



Start configuration



End configuration

| ITEM                                     | OPTION                                                                                                        |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Check-sum transmission                   |                              |
|                                          | Disable                                                                                                       |
|                                          |                              |
|                                          | * Enable                                                                                                      |
| Truncate Leading<br>(Default : 00)       | <br>Ref: Appendix (00-50H)   |
| Truncate Ending<br>(Default : 00)        | <br>Ref: Appendix (00-50H)   |
| Min. code length<br>(Default : 0B)       | <br>Ref: Appendix (00-50H) |
| Max. code length<br>(Default : 50H)      | <br>Ref: Appendix (00-50H) |
| Insert group selection<br>(Default : 00) | <br>Ref: Appendix (00-02H) |

3.12 CHINA POSTAL CODE



Start configuration



End configuration

| ITEM                             | OPTION                 |
|----------------------------------|------------------------|
| Read                             |                        |
|                                  | * Disable              |
|                                  |                        |
| Enable                           |                        |
| Code ID setting<br>(Default : Q) |                        |
|                                  | Ref: Appendix (20-7EH) |
| Check-sum verification           |                        |
|                                  | * Disable              |
|                                  |                        |
| Enable                           |                        |
| Check-sum transmission           |                        |
|                                  | Disable                |
|                                  |                        |
| * Enable                         |                        |



Start configuration



End configuration

| ITEM                                     | OPTION                                                                                                        |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Truncate Leading<br>(Default : 00)       | <br>Ref: Appendix (00-50H)   |
| Truncate Ending<br>(Default : 00)        | <br>Ref: Appendix (00-50H)   |
| Min.code length<br>(Default : 00)        | <br>Ref: Appendix (00-50H)   |
| Max.code length<br>(Default : 50H)       | <br>Ref: Appendix (00-50H)   |
| Insert group selection<br>(Default : 00) | <br>Ref: Appendix (00-02H) |

3.13 MSI/Plessey



Start configuration



End configuration

| ITEM                             | OPTION                                                                                                      |
|----------------------------------|-------------------------------------------------------------------------------------------------------------|
| Read                             |                            |
|                                  | * Disable                                                                                                   |
|                                  |                            |
|                                  | Enable                                                                                                      |
| Code ID setting<br>(Default : R) | <br>Ref: Appendix (20-7EH) |
| Check-sum verification           |                            |
|                                  | * Disable                                                                                                   |
|                                  |                          |
|                                  | MOD 10                                                                                                      |
|                                  |                          |
|                                  | MOD 10/10                                                                                                   |
|                                  |                          |
|                                  | MOD 11/10                                                                                                   |



Start configuration



End configuration

| ITEM                                     | OPTION                 |
|------------------------------------------|------------------------|
| Check-sum transmission                   |                        |
|                                          | Disable                |
|                                          |                        |
| Truncate Leading<br>(Default : 00)       |                        |
|                                          | Ref: Appendix (00-3CH) |
| Truncate Ending<br>(Default : 00)        |                        |
|                                          | Ref: Appendix (00-3CH) |
| Min. code length<br>(Default : 00)       |                        |
|                                          | Ref: Appendix (00-3CH) |
| Max. code length<br>(Default : 3CH)      |                        |
|                                          | Ref: Appendix (00-3CH) |
| Insert group selection<br>(Default : 00) |                        |
|                                          | Ref: Appendix (00-02H) |

3.14 CODE 32



Start configuration



End configuration

| ITEM                           | OPTION                 |
|--------------------------------|------------------------|
| Read                           |                        |
|                                | * Disable              |
|                                |                        |
| Code ID Setting<br>(Default:S) |                        |
|                                | Ref: Appendix (20-7EH) |
|                                |                        |
| Check-sum verification         | Disable                |
|                                |                        |
|                                | * Enable               |
| Check-sum transmission         |                        |
|                                | Disable                |
|                                |                        |
|                                | * Enable               |



Start configuration



End configuration

| ITEM                                     | OPTION                                                                                                      |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Truncate Leading<br>(Default : 00)       | <br>Ref: Appendix (00-0AH) |
| Truncate Ending<br>(Default : 00)        | <br>Ref: Appendix (00-0AH) |
| Insert group selection<br>(Default : 00) | <br>Ref: Appendix (00-02H) |

3.15 CODE 11



Start configuration



End configuration

| ITEM                           | OPTION                 |
|--------------------------------|------------------------|
| Read                           |                        |
|                                | * Disable              |
|                                |                        |
| Enable                         |                        |
| Code ID setting<br>(Default:T) |                        |
|                                | Ref: Appendix (20-7EH) |
| Check-sum verification         |                        |
|                                | Disable                |
|                                |                        |
| * Enable                       |                        |



Start configuration



End configuration

| ITEM                                     | OPTION                                                                              |
|------------------------------------------|-------------------------------------------------------------------------------------|
| Check-sum transmission                   |    |
|                                          | * Disable                                                                           |
|                                          |    |
| Truncate Leading<br>(Default : 00)       | Enable                                                                              |
|                                          |    |
| Truncate Ending<br>(Default : 00)        | Ref: Appendix (00-50H)                                                              |
|                                          |    |
| Min. code length<br>(Default : 00)       | Ref: Appendix (00-50H)                                                              |
|                                          |    |
| Max. code length<br>(Default : 50H)      | Ref: Appendix (00-50H)                                                              |
|                                          |  |
| Insert group selection<br>(Default : 00) | Ref: Appendix (00-02H)                                                              |
|                                          |  |

3.16 Telepen



Start configuration



End configuration

| ITEM                           | OPTION                 |
|--------------------------------|------------------------|
| Read                           |                        |
|                                | * Disable              |
|                                |                        |
| Code ID setting<br>(Default:V) |                        |
|                                | Ref: Appendix (20-7EH) |
| Check-sum verification         |                        |
|                                | Disable                |
|                                |                        |
| Data Format                    |                        |
|                                | Only Numnic            |
|                                |                        |
|                                | *Full ASCII            |



Start configuration



End configuration

| ITEM                                     | OPTION                                                                              |
|------------------------------------------|-------------------------------------------------------------------------------------|
| Check-sum transmission                   |    |
|                                          | * Disable                                                                           |
|                                          |    |
| Truncate Leading<br>(Default : 00)       |    |
|                                          | Ref: Appendix (00-40H)                                                              |
| Truncate Ending<br>(Default : 00)        |    |
|                                          | Ref: Appendix (00-40H)                                                              |
| Min. code length<br>(Default : 00)       |   |
|                                          | Ref: Appendix (00-40H)                                                              |
| Max. code length<br>(Default : 40H)      |  |
|                                          | Ref: Appendix (00-40H)                                                              |
| Insert group selection<br>(Default : 00) |  |
|                                          | Ref: Appendix (00-02H)                                                              |

3.17 GS1 Data Bar (RSS)

|                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |    |
| Start configuration                                                               | End configuration                                                                   |
| ITEM                                                                              | OPTION                                                                              |
| RSS-14                                                                            |    |
|                                                                                   | Enable                                                                              |
|                                                                                   |    |
| RSS-14 LIMITED                                                                    |    |
|                                                                                   | Enable                                                                              |
|                                                                                   |    |
| RSS-14 EXPANDED                                                                   |   |
|                                                                                   | Enable                                                                              |
|                                                                                   |  |
| RSS TO UPC/EAN                                                                    |  |
|                                                                                   | Enable                                                                              |
|                                                                                   |  |



Start configuration



End configuration

ITEM

OPTION

APPLICATION ID TRANSMISSION



\*Enable



Disable

CHECKSUM TRANSMISSION



\*Enable



Disable

## **Appendix A –**

**KBD Wedge Character Table**

|   | 0         |           | 1         |                               | 2  | 3 | 4 | 5 | 6 | 7   |
|---|-----------|-----------|-----------|-------------------------------|----|---|---|---|---|-----|
|   | Type<br>1 | Type 2    | Type<br>1 | Type<br>2                     |    |   |   |   |   |     |
| 0 |           |           | DLE       |                               | SP | 0 | @ | P | ` | p   |
| 1 | SOH       | Insert    | DC1       | F1                            | !  | 1 | A | Q | a | q   |
| 2 | STX       | Delete    | DC2       | F2                            | "  | 2 | B | R | b | r   |
| 3 | ETX       | Home      | DC3       | F3                            | #  | 3 | C | S | c | s   |
| 4 | ETO       | End       | DC4       | F4                            | \$ | 4 | D | T | d | t   |
| 5 | EAQ       | Up        | NAK       | F5                            | %  | 5 | E | U | e | u   |
| 6 | ACK       | Down      | SYN       | F6                            | &  | 6 | F | V | f | v   |
| 7 | BEL       | Left      | ETB       | F7                            | '  | 7 | G | W | g | w   |
| 8 | BS        | Backspace | CAN       | F8                            | (  | 8 | H | X | h | x   |
| 9 | HT        | TAB       | EM        | F9                            | )  | 9 | I | Y | i | y   |
| A | LF        | LF        | SUB       | F10                           | *  | : | J | Z | j | z   |
| B | VT        | Right     | ESC       | F11                           | +  | ; | K | [ | k | {   |
| C | FF        | PageUp    | FS        | F12                           | ,  | < | L | \ | l |     |
| D | CR        | Enter     | GS        | ESC                           | -  | = | M | ] | m | }   |
| E | SO        | PageDown  | RS        | Right ALT                     | .  | > | N | ^ | n | ~   |
| F | SI        |           | US        | Enter key<br>on Num<br>keypad | /  | ? | O | _ | o | DEL |

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



Type 1

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



Type 2

| Dec | Hex | Char. | Dec | Hex | Char. |
|-----|-----|-------|-----|-----|-------|
| 0   | 00  | NUL   | 32  | 20  | SP    |
| 1   | 01  | SOH   | 33  | 21  | !     |
| 2   | 02  | STX   | 34  | 22  | "     |
| 3   | 03  | ETX   | 35  | 23  | #     |
| 4   | 04  | EOT   | 36  | 24  | \$    |
| 5   | 05  | ENQ   | 37  | 25  | %     |
| 6   | 06  | ACK   | 38  | 26  | &     |
| 7   | 07  | BEL   | 39  | 27  | '     |
| 8   | 08  | BS    | 40  | 28  | (     |
| 9   | 09  | HT    | 41  | 29  | )     |
| 10  | 0A  | LF    | 42  | 2A  | *     |
| 11  | 0B  | VT    | 43  | 2B  | +     |
| 12  | 0C  | FF    | 44  | 2C  | ,     |
| 13  | 0D  | CR    | 45  | 2D  | -     |
| 14  | 0E  | SO    | 46  | 2E  | .     |
| 15  | 0F  | SI    | 47  | 2F  | /     |
| 16  | 10  | DLE   | 48  | 30  | 0     |
| 17  | 11  | DC1   | 49  | 31  | 1     |
| 18  | 12  | DC2   | 50  | 32  | 2     |
| 19  | 13  | DC3   | 51  | 33  | 3     |
| 20  | 14  | DC4   | 52  | 34  | 4     |
| 21  | 15  | NAK   | 53  | 35  | 5     |
| 22  | 16  | SYN   | 54  | 36  | 6     |
| 23  | 17  | ETB   | 55  | 37  | 7     |
| 24  | 18  | CAN   | 56  | 38  | 8     |
| 25  | 19  | EM    | 57  | 39  | 9     |
| 26  | 1A  | SUB   | 58  | 3A  | :     |
| 27  | 1B  | ESC   | 59  | 3B  | ;     |
| 28  | 1C  | FS    | 60  | 3C  | <     |
| 29  | 1D  | GS    | 61  | 3D  | =     |
| 30  | 1E  | RS    | 62  | 3E  | >     |
| 31  | 1F  | US    | 63  | 3F  | ?     |

| Dec | Hex | Char. | Dec | Hex | Char. |
|-----|-----|-------|-----|-----|-------|
| 64  | 40  | @     | 96  | 60  | '     |
| 65  | 41  | A     | 97  | 61  | a     |
| 66  | 42  | B     | 98  | 62  | b     |
| 67  | 43  | C     | 99  | 63  | c     |
| 68  | 44  | D     | 100 | 64  | d     |
| 69  | 45  | E     | 101 | 65  | e     |
| 70  | 46  | F     | 102 | 66  | f     |
| 71  | 47  | G     | 103 | 67  | G     |
| 72  | 48  | H     | 104 | 68  | h     |
| 73  | 49  | I     | 105 | 69  | i     |
| 74  | 4A  | J     | 106 | 6A  | j     |
| 75  | 4B  | K     | 107 | 6B  | k     |
| 76  | 4C  | L     | 108 | 6C  | l     |
| 77  | 4D  | M     | 109 | 6D  | m     |
| 78  | 4E  | N     | 110 | 6E  | n     |
| 79  | 4F  | O     | 111 | 6F  | o     |
| 80  | 50  | P     | 112 | 70  | P     |
| 81  | 51  | Q     | 113 | 71  | q     |
| 82  | 52  | R     | 114 | 72  | r     |
| 83  | 53  | S     | 115 | 73  | s     |
| 84  | 54  | T     | 116 | 74  | t     |
| 85  | 55  | U     | 117 | 75  | u     |
| 86  | 56  | V     | 118 | 76  | v     |
| 87  | 57  | W     | 119 | 77  | w     |
| 88  | 58  | X     | 120 | 78  | x     |
| 89  | 59  | Y     | 121 | 79  | y     |
| 90  | 5A  | Z     | 122 | 7A  | z     |
| 91  | 5B  | [     | 123 | 7B  | {     |
| 92  | 5C  | \     | 124 | 7C  |       |
| 93  | 5D  | }     | 125 | 7D  | }     |
| 94  | 5E  | ^     | 126 | 7E  | ~     |
| 95  | 5F  | _     | 127 | 7F  | DEL   |

# Table-Hex    HEXADCIMAL



1



2



3



4



5



6



7



8



9



0



A



B



C



D



E



F



Confirm configuration



End Configuration

