Page
Introduction ..... 3
Setup Flow Chart ..... 4
Interface Options
Keyboard Language ..... 5
Intercharacter Delay for Keyboard Wedge ..... 8
Keyboard Shift, Alt, Ctrl Key Disabled DEFAULT ..... 9
Keyboard Function-key Data Unread DEFAULT ..... 10
RS232 Baud Rate ..... 11
RS232 Bits \& Parity ..... 13
Read Options
Scanning Mode ..... 14
Read Redundancy ..... 16
Buzzer Tone ..... 17
Quiet Zone ..... 20
String Options
String structure ..... 21
Prefix/Suffix ..... 22
Code ID ..... 24
String Terminator ..... 27
String Case Conversion ..... 28
Symbology OptionsSymbology EAN/JAN 13 DEFALITOREADPage29
ISBN ..... 31
Symbology EAN/JAN 8 Default toread ..... 32
Symbology UPC A defalito read ..... 34
Symbology UPC E defalt toread ..... 36
Symbology Code 39 Defaultororad ..... 38
Symbology Interleaved 2 of 5 ..... 40
Symbology Industrial 2 of 5 ..... 42
Symbology Code 128 defalittoread ..... 44
Symbology Codabar/NW7 Defaultoread ..... 45
Symbology Code 93 DEEFalttoread ..... 47
Auxiliary Tables for SettingHEXIASCII Table

Optional Barcode

## Introduction

Thank you for selecting this laser barcode scanner. This scanner is equipped with the advanced laser optical technology. Morever, it enables lots of barcode decoding settings to meet your applications.

It is easy to change any decoding setting of this scanner. You just need to follow the setup flow chart and scan the required barcodes. Your new settings will be kept in the scanner even after power off. Also, you can change back the factory defaults easily.

Should you have any question in changing the settings, please feel free to contact your supplier.

Scan the barcode below to see the version of your scanner decoder.

Show the version


## Setup Flow Chart

Every time you need to change one of the settings, please follow this flow chart. Scan each required barcode to complete the setting change.

When the setting is successfully changed, you will hear one long and one short beep. When the setting change is not successful, you'll hear 3 short beeps to alert. Then, you need to restart it again.

" DEFAULT " refers to the default setting in this manual.

[^0]

| US English DEFAULT | $\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|$ |
| :--- | :---: |
| French | $\mid\\| \\|\\| \\|\\| \\|\\| \\|\\| \\|\\| \\|\\| \\|\\| \\| \\|$ |
| -DB |  |
| German | $\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|$ |
| - DC |  |

United Kingdom

|  | -DD |
| :--- | :---: |
| Japanese | $\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|$ |
| - DE |  |
| Dutch | $\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|$ |
|  | -DF |


| Danish | $\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|$ |
| :--- | :---: |
| -DG |  |$|$

## Swedish/Finnish



| Norwegian | Hungarian |
| :---: | :---: |
| Latin American | Lithuanian |
| Italian |  |

## Belgian



## Swiss German



## Intercharacter Delay for Keyboard Wedge

Start


There are 10 options of intercharacter delay and intermessage delay. Use Appendix 2 to input your choice by scanning Optional Barcodes "00" to"09". The Default is " 00 ".

Example: How to set intercharacter delay as 200 ms ?
Scan "Start". $\rightarrow$ Scan option $\star$ here. $\rightarrow$ Scan Optional Barcodes "09" in Appendix 2. $\rightarrow$ Scan "Exit".
$\star$ Set Intercharacter delay Option "00' for $50 \mu \mathrm{~s}$; "01" for 1ms; "02' for 5 ms ; '03' for 10 ms ; "04" for 20ms; "05" for 30ms; "06" for 40ms; "07" for 50ms;


- AA
* Set Intermessage delay

Option "00" for $500 \mu \mathrm{~s}$; "01" for 1 ms ;
"02" for 1.5m; "03" for 2 ms ;
"04" for 2.5 ms ; " 05 " for 3 ms ;
"06" for 3.5 ms ; "07" for 4 ms ;

$-A B$
$\odot$ Reserved


Keyboard Shift, Alt, Ctrl Key Disabled
Start


This scanner ignores keyboard's Alt, Shift, Ctrl key to function unless you change setting to option* here to enable.

* Disable Shift, Alt, Ctrl to work DEFAULT

- BK
* Enable Shift, Alt, Ctrl key to work as normal

- BL
- Numeric Keypad Select (No-use) DEFAULT

- BM
- Numeric Keypad Select (Use)


If your data contains function-key such as F1, F2 in the keyboard, this scanner will ignore it to read. Please choose option* here. Then, such kind of data can be read.

* Disable function-key data to read DEFAULT

- BI
* Enable function-key data to read

| $\star 9600$ DEFAULT |  |
| :---: | :---: |
| * 600 |  |

- 1200
- 2400
- 4800


| - 19200 |  |
| :---: | :---: |
| $\odot$ Reserved 1 |  |
| ¢ Reserved 2 |  |
| $\bigcirc$ Reserved 3 |  |
| $\bigcirc$ Reserved 4 |  |


| * Data 8 bits DEFAULT |  |
| :---: | :---: |
| * Data 7 bits |  |

- Parity none DEFAULT

- Parity even

- I Q
- Parity odd



## Scanning Mode

Start


* Normal scan DEFAuLT

You press the button to turn on laser to scan for a good read. Laser turn off when you release the button or automatically off when a good read.

* Laser-always-on scan Laser keeps on, but you need to press the button to get a read. Laser will auto-turn off if no good read in 2 minutes.

-FE


## - Normal scan with auto-off

 The same as normal scan. Moreover, laser will auto-turn off if no good read in 3 seconds.

- Testing scan

This is for testing. You press the button to activate laser. When you stay on the button, laser will keep reading until you release the button.


- FA
- Continuous testing scan

This is for testing. Once you press the button to turn on laser, laser will auto-continuously read.
Press the button again to turn laser off.


## Scanning Mode

Start


- Continuous scan 1

Once you press the button to activate laser, it will auto-continuously read the next different barcode.
Press the button once to turn laser off.


- Continous scan 2

Once you press the button to activate laser, it will auto-continuously read at the set interval.
Press the button again to turn laser off.


- FH

Or, laser will auto-turn off if no good in 180 seconds.
There are 9 options of interval to set. The default is for 0.4 seconds.
Use Appendix 2 to input your choice by scanning " 01 " to "09".
Optional Barcode " 01 " is for interval 0.2 seconds, " 02 " for 0.4 seconds..,and " 09 " for 1.8 seconds.

Example: Set interval as 1.8 seconds.
Scan "Start" $\rightarrow$ Scan Option • here $\rightarrow$ Scan "0" and then "9" in Appendix $2 \rightarrow$ Scan "Exit".

## ALSO,

There are 9 options to set time for auto-off. The default is for 180 seconds. Laser will trun off if no good read in 180 seconds.
Set time for auto-off
" 01 " is no auto-off. " 02 " is for 30 secs.
" 03 " is for 60 secs. " 04 " is 120 secs.
" 05 " is for 180 secs. " 06 " is 5 mins.
" 07 " is 10 mins. " 08 " is 20 mins.

" 09 " is 30 mins.

## Exit



* No redundancy DEFAULT
* Two times redundancy Data will be decoded 2 times before it is transmitted to reduce the probability of reading errors.
- Three times redundancy Data will be decoded 3 times before it is transmitted to reduce the probability of reading errors.

| * No redundancy [DEFAULT |  |
| :---: | :---: |
| * Two times redundancy Data will be decoded 2 times before itis transmilted to reduce the probability of reading errors. |  |
| - Three times redundancy Data will be decoded 3 times before it is transmitted to reduce the probability of reading errors. |  |
| - Four times redundancy Data will be decoded 4 times before it is stransmilted to reduce the probability of reading errors. |  |
| $\odot$ Reserved |  |


|  <br> duration long DEFAuLT | $\|\\|\mid\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|$ |
| :--- | :--- |
| -XD |  |$|$

- Buzzer tone high \& duration short

- XC
- Buzzer tone medium \& duration shortest

- XE
- Buzzer tone medium \& duration short
- Buzzer tone medium \& duration long
- Buzzer tone low \& duration short
- Buzzer tone low \& duration long

- XI
- Enable power-up tone DEFAULT
- Disable power-up tone

○ Reserved 1

$\odot$ Reserved 3
$\odot$ Reserved 4

$\star$ Select normal quiet zone

| $\star$ © |
| :--- | :--- |
| *EFAULT |
| * Select small quiet zone |

- Select large quiet zone 1

- BG
- Select large quiet zone 2

- BH

The structure of scanned data can be programmed. You can add prefix, code ID, suffix or change the terminator as your options. If you need all these options, each scan of data will be transmitted in the following arrangement.

## Prefix Code ID Scanned Data Suffix <br> String <br> Terminator

|  |  |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
|  |  |

You can input up-to 10 characters as the prefix or suffix of data. Check Appendix 1 for your input character(s). Then, scan the Optional Barcodes in Appendix 2 to input.

Example: Set "AB" as the prefix.
Scan "Start" $\rightarrow$ Scan " $\star$ Prefix" in this page $\rightarrow$ Check Appendix $1 \rightarrow$ Scan "4", "1" and "4", "2" in Appendix $2 \rightarrow$ Scan "Exit".
$\star$ Set prefix


- GA
* Clear prefix

- GB
- Set suffix


| - Clear suffix | $\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|$ |
| :--- | :---: |
| -HB |  |$|$

© Reserved 3
$\odot$ Reserved 4


- GF


## Code ID

Start

You can place 1 character in front of the certain code type as its ID. Check Appendix 1 for your input character. Then, scan the Optional Barcodes in Appendix 2 to input. As a result, you can easily tell from different code types by their code IDs.

Example: Set EAN 8's ID as "1".
Scan "Start " $\rightarrow$ Scan Option ". EAN 8 ". $\rightarrow$ Check Appendix $1 \rightarrow$ Scan" 3" and then "1" in Appendix 2. $\rightarrow$ Scan "Exit".

* Set EAN 13/UPC A's ID
* Set UPC E's ID

- VB
- Set EAN 8's ID

- Set Code 128's ID

- Set Interleaved 2 of 5's ID
- Set Industrial 2 of 5's ID
- Set Codabar's ID
- Set Code 39's ID

- Set Code 93's ID
- Set Code 11's ID
-Set all codes' ID EAN 13/UPC A= "A"; UPC E= "B"; EAN $8=$ " $C$ "; Code $128=$ "D"; Interleaved 2 of $5=$ "E"; Industrial 2 of 5 = FF "; Codabar= " G ";
Code $39=$ " H "; Code $93=1$ " .
$\odot$ Clear all codes' ID
© Reserved 1

$\star$ Select CR as terminator:
. ---9

DEFAULT
"CR, Carriage Return" will be
transmitted at the very end of every
string to separate from the next one.
DEFAULT
"CR, Carriage Return" will be
transmitted at the very end of every
string to separate from the next one.
DEFAULT
"CR, Carriage Return" will be
transmitted at the very end of every
string to separate from the next one.
DEFAULT
"CR, Carriage Return" will be
transmitted at the very end of every
string to separate from the next one.

- Select no terminator
Nothing will be transmitted at the very
end of the string to separate from the
* Select no terminator
Nothing will be transmitted at the very
end of the string to separate from the
* Select no terminator
Nothing will be transmitted at the very
end of the string to separate from the next one.

| $\star$ No case conversion DEFAULT |  |
| :---: | :---: |
| * Conver to lower case |  |
| - Conver to upper case |  |
| $\bigcirc$ Reserved 1 |  |
| $\bigcirc$ Reserved 2 |  |



|  |  |
| :---: | :---: |
| \# Enable (DEFAULT |  |
| * Disable |  |
| - Enable check character transmission DEFAULT |  |
| - Disable check character transmission |  |
| - Enable leading digit transmission DEFAULT |  |



- Disable leading digit transmission

- DH
- Select EAN/JAN 13 without supplement digit DEFAULT

- QR
- Select EAN/JAN 13 with 2 or 5 supplement digits

- ZN
- Select EAN/JAN 13 with only 5 supplement digits

- QM
- Select EAN/JAN 13 with only 2 supplement digits

- QL

| * Disable EAN13 to ISBN conversion DEFAULT |  |
| :---: | :---: |
| Enable EAN 13 to ISBN conversion |  |
|  |  |

* Enable DEFAULT
* Disable

- Enable check character transmission DEFAULT

- Disable check character transmission

- SE
- Select EAN/JAN 8 without supplement digit DEFAULT

- SK
- Select EAN/JAN 8 with 2 or 5 supplement digits

- SN
- Select EAN/JAN 8 with only 5 supplement digits

| $\|\|\|\|\|\|\|\|\|\|\|\|\|\|\|\|\|\|\|\|\|\|\|\mid$ |
| :---: |
| -SN |
|  |


| * Enable DEFAULT |  |
| :---: | :---: |
| * Disable |  |
| - Enable check character transmission DEFAULT |  |

- Disable check character transmission

- RE
- Enable leading digit transmission [DEFAULT

- Disable leading digit transmission

| - Disable leading digit transmission |  |
| :---: | :---: |
| - Select UPC A without supplement digit DEFAULT |  |
| - Select UPC A with 2 or 5 supplement digits |  |
| - Select UPC A with only 5 supplement digits |  |
| - Select UPC A with only 2 supplement digits |  |

Exit



| * Enable DEFAULT |  |
| :---: | :---: |
| * Disable |  |
| - Enable check character transmission DEFAULT |  |

- Disable check character transmission

- TE
- Select UPC E without supplement digit DEFAULT

- TK
- Select UPC E with 2 or 5 supplement digits
- Select UPC E
with only 5 supplement digits


$\star$ Select standard ASCII transmission DEFAULT

- JE
- Enable start/end character transmission

- JF
- Disable check character verification DEFAULT

- Enable check character verification
- Disable check character transmission DEFAULT
- Enable check character transmission

- J H

- J K length" here $\rightarrow$ Scan "01" to "99" in Appendix $2 \rightarrow$ Scan "Exit".
- Set Max. length

You can set Max. Iength from 1 to 99 digits. The default is for 99 digits. Scan "Start" $\rightarrow$ Scan Option "。 Set Max.

Length" here $\rightarrow$ Scan "01" to "99" in

| $\star$ Enable | $\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|$ |
| :--- | :--- |
| -KA |  |$|$

- Enable check character verification

- KD
- Disable check checksum transmission DEFAULT


| - Enable check character |
| :--- |
| transmission |
| - User define 3 sets available |

- Set Min. length You can set Min. length from 1 to 99 digits. The default is for 3 digits. Scan "Start" $\rightarrow$ Scan option "。Set Min. length" hero $\rightarrow$ Scan "01" to "99" in Appendix $2 \rightarrow$ Scan "Exit".
- Set Max. length You can set Max. Iength from 01 to 99 digits. The defaulti is for 99 digits. Scan "Start" $\rightarrow$ Scan Option "。 Set Max. Length" here $\rightarrow$ Scan "01" to " 99 " in Appendix $2 \rightarrow$ Scan "Exit".
$\odot$ Reserved

| $\star$ Enable | $\|\\|\mid\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|\\|$ |
| :--- | :---: |
| -LB |  |$|$

- Enable check character verification

- LD
- Disable check character transmission DEFAULT

-LE

| - Enable check character transmission |  |
| :---: | :---: |
| - User define 3 sets available |  |
| - Set Min. length <br> You can set Min. length from 1 to 99 digits. The default is for 3 digits. Scan "Start" $\rightarrow$ Scan option "• Set Min. length" here $\rightarrow$ Scan "01" to "99" in Appendix $2 \rightarrow$ Scan "Exit". |  |
| - Set Max. length <br> You can set Max. length from 01 to 99 digits. The default is for 99 digits. <br> Scan "Start" $\rightarrow$ Scan option ". Set Max. length" here $\rightarrow$ Scan "01" to "99" in Appendix $2 \rightarrow$ Scan "Exit". |  |

$\odot$ Reserved

* Enable DEFAULT
*Disable

- OA

- OS length" here $\rightarrow$ Scan "01" to "99" in Appendix $2 \rightarrow$ Scan "Exit".
- Set Max. length You can set Max. Iength from 01 to 99 digits. The defaulti is for 99 digits. Scan "Start" $\rightarrow$ Scan option "。 Set Max. length" here $\rightarrow$ Scan "01" to "99" in Appendix $2 \rightarrow$ Scan "Exit".
$\odot$ Disable UCC Code
$\odot$ Enable UCC Code

- OW
*Enable DEFAULT
* Disable

| $\star$ \# Enable DEFAULT |
| :--- |
|  |
| *Disable |
|  |
| - Disable start/end character | transmission [DEFAULT



- Enable start/end character transmission

- PD
- Select transmission type of start/end character: $A B C D \rightarrow A B C D$

- Select transmission type of start/end character: $A B C D \rightarrow T N * E$

- PH
- Select transmission type of start/end character: abcd $\rightarrow$ abcd

- PE
- Select transmission type of start/end character: abcd $\rightarrow$ tn*e
$\odot$ Reserved 1

- PI
$\odot$ Reserved 2

* Enable DEFAULT

*Disable

- Disable full ASCII DEFAULT
- OE
- Enable full ASCII

- Number of Check(Disable)

- OG

- Two of Check (Enable) DEFFALT

- OQ
- One of Check(Enable)

- OU
- Trans Check Char(Disable)DEFAULT

- ON
- Trans Check Char(Enable)

$\odot$ Reserved 1

- OW

Exit


| * Enable DEFAULT | - Trans Check Char(Disable) DEFAULT <br> - OL |
| :---: | :---: |
| *Disable | - Trans Check Char(Enable) |
| - Two of Check Char(Enable)DEFAULT | - Set Min. Length |
| - Number of Check Char(Disable) | - Set Max. Lenth |
| - One of Check Char(Enable) | $\odot$ Reserved 1 |

Exit




[^0]:    Set All Defaults
    Scan this barcode to erase all your previous settings and to recall back all the default settings.

