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V.2

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Introduction

Thank you for selecting this laser barcode scanner. This scanner is equipped with the advanced laser optical technology. Morerver, 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.

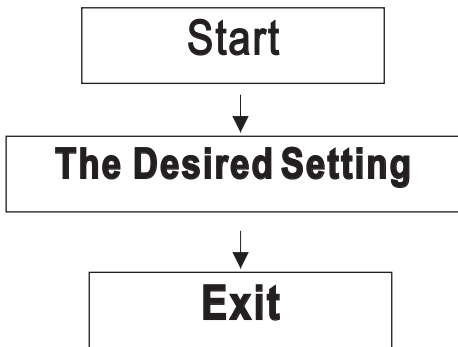Scan the barcode below to see the version of your scanner decoder.

Show the version	
	‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ . - . - C

Every time you need to change one of the settings, please follow this flowchart. 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.

Start

The Desired Setting

Exit

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

Set All Defaults
Scan this barcode to erase all your previous settings and to recall back all the default settings.

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US English DEFAULT	‖‖‖‖‖‖‖‖‖‖ - DA
French	‖‖‖‖‖‖‖‖‖‖ - DB
German	‖‖‖‖‖‖‖‖‖‖ - D C
United Kingdom	‖‖‖‖‖‖‖‖‖‖ - D D
Japanese	‖‖‖‖‖‖‖‖‖‖ - DE
Dutch	‖‖‖‖‖‖‖‖‖‖ - D F

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Danish	‖‖‖‖‖‖‖‖‖‖‖‖‖ - DG
Icelandic	‖‖‖‖‖‖‖‖‖‖‖‖‖ - DH
Spanish	‖‖‖‖‖‖‖‖‖‖‖‖‖ - DI
Swedish/Finnish	‖‖‖‖‖‖‖‖‖‖‖‖‖ - DJ
Portuguese	‖‖‖‖‖‖‖‖‖‖‖‖‖ - DK

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Norwegian

- DL

Hungarian

- DQ

Latin American

- DM

Lithuanian

- DR

Italian

- D N

Belgian

- D O

Swiss German

- D P

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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 200ms?
Scan "Start".→Scan option ★ here.→Scan Optional Barcodes "09" in Appendix 2.→Scan "Exit".

★ Set Intercharacter delay Option "00" for 50 s; "01" for 1ms; "02" for 5ms; "03" for 10ms; "04" for 20ms; "05" for 30ms; "06" for 40ms; "07" for 50ms;	- AA
✿ Set Intermessage delay Option "00" for 500 s; "01" for 1ms; "02" for 1.5m; "03" for 2ms; "04" for 2.5ms; "05" for 3ms; "06" for 3.5ms; "07" for 4ms;	- AB
⊙ Reserved	- AC

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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**	‖‖‖ ‖‖‖‖ ‖‖‖‖ ‖‖‖
● **Numeric Keypad Select (No-use)** DEFAULT	‖‖‖ ‖‖‖‖ ‖‖‖‖ ‖‖‖ - BM
○ **Numeric Keypad Select (Use)**	‖‖‖ ‖‖‖‖ ‖‖‖‖ ‖‖‖ - BN

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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**	

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★ **9600** DEFAULT

- I F

✱ **600**

- I B

● **1200**

- I C

● **2400**

- I D

● **4800**

- I E

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● **19200**	‖‖‖‖‖‖‖‖‖‖‖‖‖ - I G
⊙ **Reserved 1**	‖‖‖‖‖‖‖‖‖‖‖‖‖ - I H
⊙ **Reserved 2**	‖‖‖‖‖‖‖‖‖‖‖‖‖ - I K
⊙ **Reserved 3**	‖‖‖‖‖‖‖‖‖‖‖‖‖ - I L
⊙ **Reserved 4**	‖‖‖‖‖‖‖‖‖‖‖‖‖ - I M

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★ **Data 8 bits** DEFAULT	-IJ
✳ **Data 7 bits**	-II
o **Parity none** DEFAULT	- I P
● **Parity even**	I Q
● **Parity odd**	I R

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Start ║║║║║║║║║║║║║║║║║║║ Start
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★ **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.**	║║║║║║║║║║║║║║║ - FB
❀ **Laser-always-on scan** **Laser keeps on, but you need to press the button to get a read. Laser will auto-turn of 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.**	║║║║║║║║║║║║║ - FC
● **Testing scan** **This is 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 of.**	║║║║║║║║║║║║║ - FG

Exit ║║║║║║║║║║║║║║║║║║║ Exit
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- **Continuous scan 1**
  Once you press the button to activate laser, it will auto-continuously read the next <u>different</u> barcode.
  Press the button once to turn laser of.

  - FD

○ **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 of.
  Or, **laser will auto-turn off if no good in 180 seconds.**

  - FH

  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"→Scan Option ● here→Scan "0" and then "9" in Appendix 2→Scan "Exit".

  ## ALSO,
  There are 9 options to set time for auto-off. The default is 180 seconds. Laser will trun off if no good read in 180 seconds.

  ### Set time for auto-off
  "01" is no auto-of. "02" is for 30 secs.
  "03" is for 60 secs. "04" is for 120 secs.
  "05" is for 180 secs. "06" is 5 mins.
  "07" is 10 mins. "08" is 20 mins.
  "09" is 30 mins.

  - FI

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★ **No redundancy** DEFAULT	‖‖‖‖‖‖‖‖‖‖ - BA
✵ **Two times redundancy** **Data will be decoded 2 times** **before it is transmitted to reduce** **the probability of reading errors.**	‖‖‖‖‖‖‖‖‖‖ - BB
● **Three times redundancy** **Data will be decoded 3 times** **before it is transmitted to reduce** **the probability of reading errors.**	‖‖‖‖‖‖‖‖‖‖ - B C
● **Four times redundancy** **Data will be decoded 4 times** **before it is transmitted to reduce** **the probability of reading errors.**	‖‖‖‖‖‖‖‖‖‖ - B D
⊙ **Reserved**	‖‖‖‖‖‖‖‖‖‖ - B E

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★ **Buzzer tone high & duration long** DEFAULT	- XD
✽ **Disable buzzer**	- XA
● **Buzzer tone high & duration shortest**	- X B
● **Buzzer tone high & duration short**	- X C
● **Buzzer tone medium & duration shortest**	- X E

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● **Buzzer tone medium & duration short**	||||||||||||||| - XF
○ **Buzzer tone medium & duration long**	||||||||||||||| - XG
● **Buzzer tone low & duration short**	||||||||||||||| - XH
● **Buzzer tone low & duration long**	||||||||||||||| - XI
○ **Enable power-up tone** DEFAULT	||||||||||||||| - UE

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● **Disable power-up tone**	- UD
⊙ Reserved 1	- XJ
⊙ Reserved 2	- XK
⊙ Reserved 3	- XL
⊙ Reserved 4	- XM

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★ **Select normal quiet zone** DEFAULT	|||| ||||| ||| ||||| || - BF
✳ **Select small quiet zone**	|||| ||||| ||| ||| ||| - BE
• **Select large quiet zone 1**	|||| ||||| ||| ||| ||| - B G
• **Select large quiet zone 2**	|||| ||||| ||| ||| ||| - B H

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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	String 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"→Scan "★ Prefix" in this page→Check Appendix 1→Scan "4", "1" and "4", "2" in Appendix 2→Scan "Exit".

☆ Set prefix																- GA
❀ Clear prefix																- GB
● Set suffix																- HA

● **Clear suffix**	‖‖‖‖‖ ‖‖‖ ‖‖‖‖ ‖‖‖ - HB
⊙ **Reserved 1**	‖‖‖‖‖ ‖‖‖ ‖‖‖ ‖‖‖ - GC
⊙ **Reserved 2**	‖‖‖‖‖ ‖‖‖ ‖‖‖ ‖‖‖ - GD
⊙ **Reserved 3**	‖‖‖‖‖ ‖‖‖ ‖‖‖ ‖‖‖ - GE
⊙ **Reserved 4**	‖‖‖‖‖ ‖‖‖ ‖‖‖ ‖‖‖ - GF

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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 "→Scan Option "○ EAN 8 ".→Check Appendix 1→Scan" 3" and then "1" in Appendix 2. →Scan "Exit".

★ Set EAN 13/UPC A's ID	‖‖‖‖‖‖‖‖‖‖‖‖ - VA
✻ Set UPC E's ID	‖‖‖‖‖‖‖‖‖‖‖‖ - VB
● Set EAN 8's ID	‖‖‖‖‖‖‖‖‖‖‖‖ - VC

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● **Set Code 128's ID**	‖‖‖‖‖‖‖‖‖‖ - VD
○ **Set Interleaved 2 of 5's ID**	‖‖‖‖‖‖‖‖‖‖ - VE
● **Set Industrial 2 of 5's ID**	‖‖‖‖‖‖‖‖‖‖ - VF
● **Set Codabar's ID**	‖‖‖‖‖‖‖‖‖‖ - VG
● **Set Code 39's ID**	‖‖‖‖‖‖‖‖‖‖ - VH

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● **Set Code 93's ID**	‖‖‖‖‖‖‖‖ - V K
● **Set Code 11's ID**	‖‖‖‖‖‖‖‖ - V L
⊙**Set all codes' ID** **EAN 13/ UPC A="A";** **UPC E= "B"; EAN8= "C";** **Code 128= "D"; Interleaved2 of 5= "E";** **Industrial 2 of 5="F"; Codabar= "G";** **Code 39= "H"; Code93= "I".**	‖‖‖‖‖‖‖‖ - V I
⊙ **Clear all codes' ID**	‖‖‖‖‖‖‖‖ - V J
⊙ **Reserved 1**	‖‖‖‖‖‖‖‖ - V M

★ **Select CR as terminator:**
[DEFAULT]
"CR, Carriage Return" will be transmitted at the very end of every string to separate from the next one.

‖‖‖‖‖‖‖‖‖‖
- EB

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

‖‖‖‖‖‖‖‖‖‖
- EA

● **Select Tab as terminator**
"Tab" will be transmitted at the very end of every string to separate from the next one.

‖‖‖‖‖‖‖‖‖‖
- E D

● **Select Esc as terminator**
"Esc" will be transmitted at the very end of every string to separate from the next one.

‖‖‖‖‖‖‖‖‖‖
- E E

● **Select Space as terminator**
"Space" will be transmitted at the very end of every string to separate from the next one.

‖‖‖‖‖‖‖‖‖‖
- E C

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★ No case conversion DEFAULT	‖‖‖‖‖‖‖‖‖ - UA
✻ Conver to lower case	‖‖‖‖‖‖‖‖‖ - UB
● Conver to upper case	‖‖‖‖‖‖‖‖‖ - U C
⊙ Reserved 1	‖‖‖‖‖‖‖‖‖ - UF
⊙ Reserved 2	‖‖‖‖‖‖‖‖‖ - UG

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★ **Enable** DEFAULT	- QB
❀ **Disable**	- QA
● **Enable check character transmission** DEFAULT	- Q F
● **Disable check character transmission**	- Q E
● **Enable leading digit transmission** DEFAULT	- Q G

o **Disable leading digit transmission**	||||||||||||||||||||| - QH
o **Select EAN/JAN 13 without supplement digit** DEFAULT	||||||||||||||||||||| - QK
● **Select EAN/JAN 13 with 2 or 5 supplement digits**	||||||||||||||||||||| - QN
● **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	‖‖‖‖‖‖‖‖‖‖‖‖‖ - QO
❀ **Enable EAN 13 to ISBN conversion**	‖‖‖‖‖‖‖‖‖‖‖‖‖ - QP

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★ **Enable** DEFAULT	‖‖‖‖‖‖‖‖‖ - SB
✤ **Disable**	‖‖‖‖‖‖‖‖‖ - SA
● **Enable check character transmission** DEFAULT	‖‖‖‖‖‖‖‖‖ - S F
● **Disable check character transmission**	‖‖‖‖‖‖‖‖‖ - S E
○ **Select EAN/JAN 8 without supplement digit** DEFAULT	‖‖‖‖‖‖‖‖‖ - SK

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● **Select EAN/JAN 8 with 2 or 5 supplement digits**	‖‖‖‖‖‖‖‖‖‖‖ - S N
○ **Select EAN/JAN 8 with only 5 supplement digits**	‖‖‖‖‖‖‖‖‖‖‖ - S M
● **Select EAN/JAN 8 with only 2 supplement digits**	‖‖‖‖‖‖‖‖‖‖‖ - S L
● **Diable EAN 8 expansion** DEFAULT	‖‖‖‖‖‖‖‖‖‖‖ - S G
○ **Enable EAN 8 expansion** **Five zeros will be transmitted in front of the scanned EAN 8 data to expand as EAN 13.**	‖‖‖‖‖‖‖‖‖‖‖ - S H

★ **Enable** DEFAULT	‖‖‖‖‖‖‖‖‖‖‖‖‖ - RB
✾ **Disable**	‖‖‖‖‖‖‖‖‖‖‖‖‖ - RA
● **Enable check character transmission** DEFAULT	‖‖‖‖‖‖‖‖‖‖‖‖‖ - R F
● **Disable check character transmission**	‖‖‖‖‖‖‖‖‖‖‖‖‖ - R E
○ **Enable leading digit transmission** DEFAULT	‖‖‖‖‖‖‖‖‖‖‖‖‖ - RG

‖‖‖ ‖‖‖‖‖ ‖‖‖‖ ‖‖‖ ‖‖‖‖
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o **Disable leading digit transmission**	‖‖‖ ‖‖‖‖ ‖‖‖ ‖‖‖‖ - RH
o **Select UPC A without supplement digit** DEFAULT	‖‖‖ ‖‖‖‖ ‖‖‖ ‖‖‖‖ - RK
o **Select UPC A with 2 or 5 supplement digits**	‖‖‖ ‖‖‖‖ ‖‖‖ ‖‖‖‖ - RN
• **Select UPC A with only 5 supplement digits**	‖‖‖ ‖‖‖‖ ‖‖‖ ‖‖‖‖ - RM
• **Select UPC A with only 2 supplement digits**	‖‖‖ ‖‖‖‖ ‖‖‖ ‖‖‖‖ - RL

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★ **Enable** DEFAULT																				 - TB
✳ **Disable**																				 - TA
● **Enable check character transmission** DEFAULT																				 - T F
● **Disable check character transmission**																				 - T E
○ **Select UPC E without supplement digit** DEFAULT																				 - TK

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● **Select UPC E** with 2 or 5 supplement digits	‖‖‖‖‖‖‖‖‖‖‖ - TN
○ **Select UPC E** with only 5 supplement digits	‖‖‖‖‖‖‖‖‖‖‖ - TM
● **Select UPC E** with only 2 supplement digits	‖‖‖‖‖‖‖‖‖‖‖ - TL
○ **Disable UPC E expansion** DEFAULT	‖‖‖‖‖‖‖‖‖‖‖ - TG
● **Enable UPC E expansion** Five Zeros will be transmitted in front of the scanned UPC E data to expand as UPC A.	‖‖‖‖‖‖‖‖‖‖‖ - TH

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★ **Select standard ASCII** DEFAULT	‖‖‖‖‖‖‖‖‖‖‖ - J C
✲ **Select full ASCII**	‖‖‖‖‖‖‖‖‖‖‖ - J D
● **Disable start/end character transmission** DEFAULT	‖‖‖‖‖‖‖‖‖‖‖ - J E
● **Enable start/end character transmission**	‖‖‖‖‖‖‖‖‖‖‖ - J F
● **Disable check character verification** DEFAULT	‖‖‖‖‖‖‖‖‖‖‖ - J I

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● **Enable check character verification**	‖‖‖‖‖‖‖‖‖‖ -JJ
○ **Disable check character transmission** DEFAULT	‖‖‖‖‖‖‖‖‖‖ - J G
● **Enable check character transmission**	‖‖‖‖‖‖‖‖‖‖ - J H
● **Set Min. length** You canset Min. length from1 to 99 digits. The defaultis for 3 digits. Scan "Start"→Scan option "● Set Min. length" here→Scan "01" to "99"in Appendix 2→Scan "Exit".	‖‖‖‖‖‖‖‖‖‖ - J K
○ **Set Max. length** You canset Max. length from1 to 99 digits. The defaultis for 99 digits. Scan "Start"→Scan Option "○ Set Max. Length" here→Scan "01" to "99"in	‖‖‖‖‖‖‖‖‖‖ - J L

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★ Enable	|||||||||||||||||||| - KA
☙ Disable DEFAULT	|||||||||||||||||||| - KB
● Disable check character verification DEFAULT	|||||||||||||||||||| - KC
● Enable check character verification	|||||||||||||||||||| - KD
● Disable check checksum transmission DEFAULT	|||||||||||||||||||| - KE

● **Enable check character transmission**	‖‖‖‖‖‖‖‖‖‖‖‖‖ - KF
○ **User define 3 sets available**	‖‖‖‖‖‖‖‖‖‖‖‖‖ - KH
● **Set Min. length** You canset Min. length from1 to 99 digits. The defaultis for 3 digits. Scan "Start"→Scan option ● Set Min. length" here→Scan "01" to "99"in Appendix 2→Scan "Exit".	‖‖‖‖‖‖‖‖‖‖‖‖‖ - KI
● **Set Max. length** You canset Max. length from01 to 99 digits. The defaultis for 99 digits. Scan "Start"→Scan Option ● Set Max. Length" here→Scan "01" to "99"in Appendix 2→Scan "Exit".	‖‖‖‖‖‖‖‖‖‖‖‖‖ - KJ
⊙ **Reserved**	‖‖‖‖‖‖‖‖‖‖‖‖‖ - KK

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★ Enable	‖‖‖‖‖‖‖‖‖ - LB
✿ Disable DEFAULT	‖‖‖‖‖‖‖‖‖ - LA
● Disable check character verification DEFAULT	‖‖‖‖‖‖‖‖‖ - LC
● Enable check character verification	‖‖‖‖‖‖‖‖‖ - LD
● Disable check character transmission DEFAULT	‖‖‖‖‖‖‖‖‖ - LE

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● **Enable check character transmission**	‖||‖|‖|‖|‖|‖|‖|‖| - LF
○ **User define 3 sets available**	‖||‖|‖|‖|‖|‖|‖|‖| - LH
● **Set Min. length** You can set Min. length from 1 to 99 digits. The default is for 3 digits. Scan "Start"→Scan option ● Set Min. length" here→Scan "01" to "99"in Appendix 2→Scan "Exit".	‖||‖|‖|‖|‖|‖|‖|‖| - LI
○ **Set Max. length** You can set Max. length from 01 to 99 digits. The default is for 99 digits. Scan "Start"→Scan option ○ Set Max. length" here→Scan "01" to "99"in Appendix 2→Scan "Exit".	‖||‖|‖|‖|‖|‖|‖|‖| - LJ
⊙ Reserved	‖||‖|‖|‖|‖|‖|‖|‖| - LK

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★ **Enable** DEFAULT	‖‖‖‖‖‖‖‖‖‖‖ - OB
✳ **Disable**	‖‖‖‖‖‖‖‖‖‖‖ - OA
● **Set Min. length** You can set Min. length from 1 to 99 digits. The default is for 3 digits. Scan "Start"→Scan option "● Set Min. length" here→Scan "01" to "99" in Appendix 2→Scan "Exit".	‖‖‖‖‖‖‖‖‖‖‖ - O S
● **Set Max. length** You can set Max. length from 01 to 99 digits. The default is for 99 digits. Scan "Start"→Scan option "● Set Max. length" here→Scan "01" to "99" in Appendix 2→Scan "Exit".	‖‖‖‖‖‖‖‖‖‖‖ - O T
⊙ **Reserved**	‖‖‖‖‖‖‖‖‖‖‖ - O W
⊙ **Reserved**	‖‖‖‖‖‖‖‖‖‖‖ - OX

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★ **Enable** DEFAULT	‖‖‖‖‖‖‖‖ - PB
✱ **Disable**	‖‖‖‖‖‖‖‖ - PA
● **Disable start/end character transmission** DEFAULT	‖‖‖‖‖‖‖‖ - P C
● **Enable start/end character transmission**	‖‖‖‖‖‖‖‖ - P D
● **Select transmission type of start/end character: ABCD → ABCD**	‖‖‖‖‖‖‖‖ - P G

● Select transmission type of start/end character: ABCD → TN*E	||||||||||||||||||||| - PH
○ Select transmission type of start/end character: abcd → abcd	||||||||||||||||||||| - PE
● Select transmission type of start/end character: abcd → tn*e	||||||||||||||||||||| - PF
⊙ Reserved 1	||||||||||||||||||||| - PI
⊙ Reserved 2	||||||||||||||||||||| - PJ

★ **Enable** DEFAULT	● **Two of Check (Enable)** DEFAULT
- OD	- OQ
✽ **Disable**	● **One of Check(Enable)**
- OC	- OU
● **Disable full ASCII** DEFAULT	○ **Trans Check Char(Disable)** DEFAULT
- O E	- ON
● **Enable full ASCII**	● **Trans Check Char(Enable)**
- O F	- OV
● **Number of Check(Disable)**	⊙ **Reserved 1**
- O G	- O W

||||| |||| ||| |||| |||| |||||
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☆ **Enable** DEFAULT	● **Trans Check Char(Disable)** DEFAULT
|||| ||||| |||| ||| |||| - OI	|||| ||| |||| ||||| |||| - OL
✹ **Disable**	● **Trans Check Char(Enable)**
|||| ||| ||||| |||| |||| - OH	|||| ||||| |||| ||| |||| - OM
● **Two of Check Char(Enable)** DEFAULT	○ **Set Min. Length**
|||| ||| |||| ||||| |||| - O K	|||| ||||| |||| ||| |||| - OO
● **Number of Check Char(Disable)**	○ **Set Max. Lenth**
|||| ||| |||| ||||| |||| - O J	|||| ||||| |||| ||| |||| - OP
● **One of Check Char(Enable)**	⊙ **Reserved 1**
|||| ||| |||| ||||| |||| - O R	|||| ||||| |||| ||| |||| - O W

Exit |||| ||||| |||| ||| |||| ||||| Exit
.   H

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