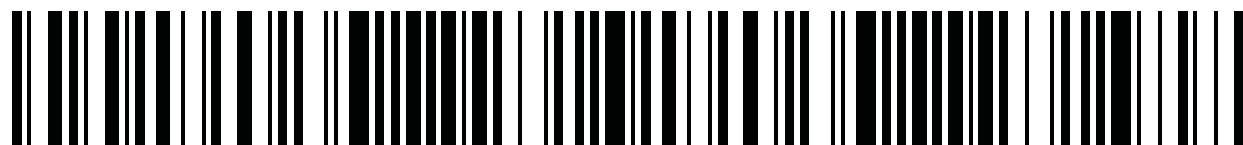


Programming Manual

for barcode scanners

RCE-1000 / RCE-1100

www.rce.it - vendite@rce.it



RCE S.r.l. - Via Salvatore Calenda, 6A - 84126 Salerno Italy - Tel. +39 089 252625

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Introduction

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

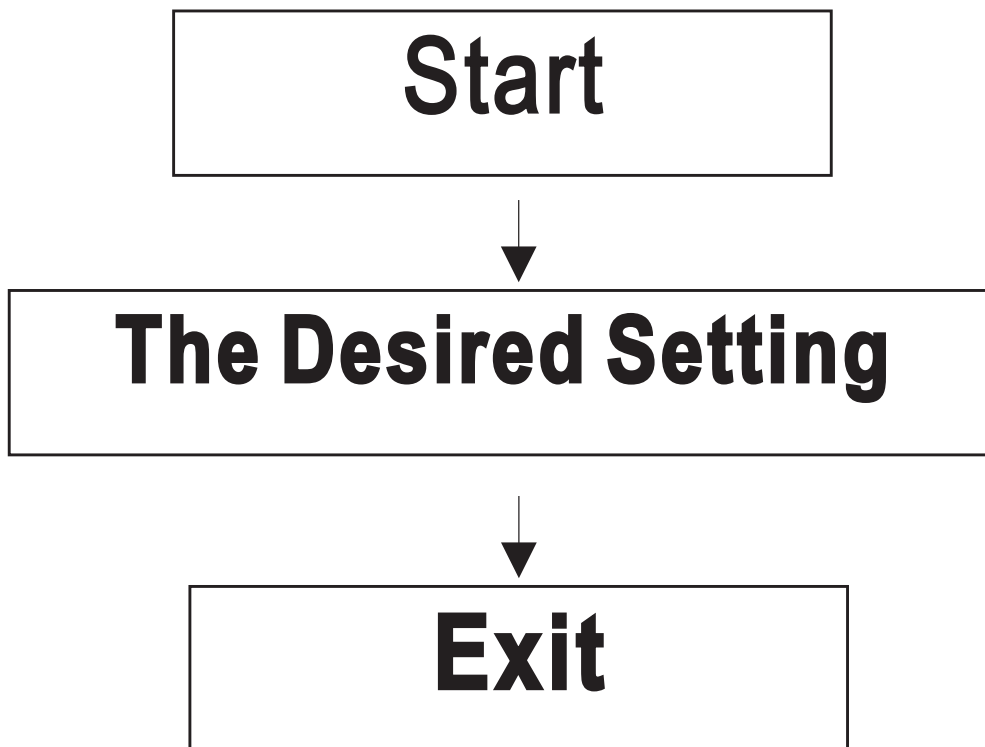


. - . - C

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.

Set All Defaults

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



. D

Keyboard Language

S t a r t



S t a r t

.----9

US English DEFAULT



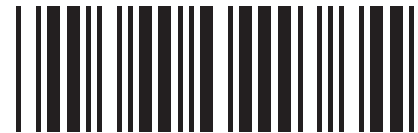
- DA

French



- DB

German



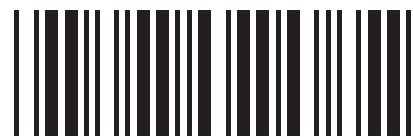
- DC

United Kingdom



- DD

Japanese



- DE

Dutch



- DF

E x i t



E x i t

. H

Keyboard Language

S t a r t



S t a r t

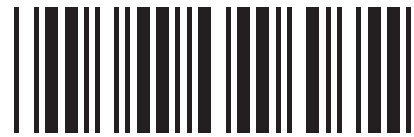
.----9

Danish



- DG

Icelandic



- DH

Spanish



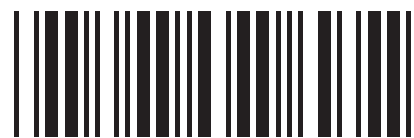
- DI

Swedish/Finnish



- DJ

Portuguese



- DK

E x i t



E x i t

. H

Keyboard Language

S t a r t



S t a r t

.----9

Norwegian



- DL

Hungarian



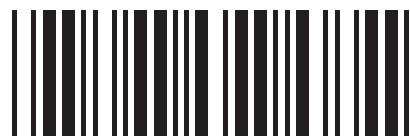
- DQ

Latin American



- DM

Lithuanian



- DR

Italian



- DN

Belgian



- DO

Swiss German



- DP

E x i t



E x i t

. H

Intercharacter Delay for Keyboard Wedge

S t a r t



S t a r t

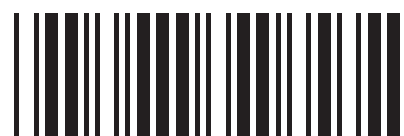
.----9

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

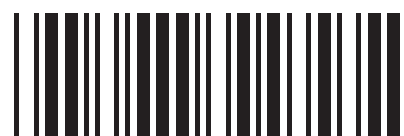
Option "00" for 50 μ s; "01" for 1ms;
"02" for 5ms; "03" for 10ms;
"04" for 20ms; "05" for 30ms;
"06" for 40ms; "07" for 50ms;



- AA

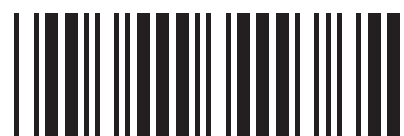
✱ Set Intermesssage delay

Option "00" for 500 μ 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

E x i t



E x i t

H

Keyboard Shift, Alt, Ctrl Key Disabled

S t a r t



S t a r t

.----9

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)**



- BN

E x i t



E x i t

. H

Keyboard Function-key Data Unread

S t a r t



S t a r t

.----9

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



- BJ

E x i t



E x i t

. H






RS232 Baud Rate

S t a r t



S t a r t

.----9

★ 9600 <input type="checkbox"/> DEFAULT	 - I F
✱ 600	 - I B
● 1200	 - I C
● 2400	 - I D
● 4800	 - I E

E x i t



E x i t

. H






RS232 Baud Rate

S t a r t



S t a r t

.----9

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

E x i t



E x i t

. H






RS232 Data Bits & Parity

S t a r t



S t a r t

.----9

★ Data 8 bits <input type="checkbox"/> DEFAULT	 - I J
✱ Data 7 bits	 - I I
● Parity none <input type="checkbox"/> DEFAULT	 - I P
● Parity even	 - I Q
● Parity odd	 - I R

E x i t



E x i t

. H

Scanning Mode

S t a r t



S t a r t

.----9

★ 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.



● 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.



● 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.



E x i t



E x i t

. H

Scanning Mode

S t a r t



S t a r t

.----9

- **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.



- F D

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



- F H

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 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.



- F I

E x i t



E x i t

. H






Read Redundancy

S t a r t



S t a r t

.----9

<p>★ No redundancy DEFAULT</p>	 <p>- BA</p>
<p>✦ Two times redundancy Data will be decoded 2 times before it is transmitted to reduce the probability of reading errors.</p>	 <p>- BB</p>
<p>● Three times redundancy Data will be decoded 3 times before it is transmitted to reduce the probability of reading errors.</p>	 <p>- BC</p>
<p>● Four times redundancy Data will be decoded 4 times before it is transmitted to reduce the probability of reading errors.</p>	 <p>- BD</p>
<p>⊙ Reserved</p>	 <p>- BE</p>

E x i t



E x i t

H






Buzzer Tone

S t a r t



S t a r t

.----9

<p>★ Buzzer tone high & duration long <input type="checkbox"/> DEFAULT</p>	 <p>- XD</p>
<p>✱ Disable buzzer</p>	 <p>- XA</p>
<p>● Buzzer tone high & duration shortest</p>	 <p>- XB</p>
<p>● Buzzer tone high & duration short</p>	 <p>- XC</p>
<p>● Buzzer tone medium & duration shortest</p>	 <p>- XE</p>

E x i t



E x i t

. H






Buzzer Tone

S t a r t



S t a r t

.----9

<ul style="list-style-type: none">● Buzzer tone medium & duration short	 <p>- XF</p>
<ul style="list-style-type: none">● Buzzer tone medium & duration long	 <p>- XG</p>
<ul style="list-style-type: none">● Buzzer tone low & duration short	 <p>- XH</p>
<ul style="list-style-type: none">● Buzzer tone low & duration long	 <p>- XI</p>
<ul style="list-style-type: none">● Enable power-up tone DEFAULT	 <p>- UE</p>

E x i t



E x i t

. H






Buzzer Tone

S t a r t



S t a r t

.----9

<p>● Disable power-up tone</p>	 <p>- UD</p>
<p>⊙ Reserved 1</p>	 <p>- XJ</p>
<p>⊙ Reserved 2</p>	 <p>- XK</p>
<p>⊙ Reserved 3</p>	 <p>- XL</p>
<p>⊙ Reserved 4</p>	 <p>- XM</p>

E x i t



E x i t

. H

Quiet Zone

S t a r t



S t a r t

.----9

★ **Select normal quiet zone**

DEFAULT



- BF

✱ **Select small quiet zone**



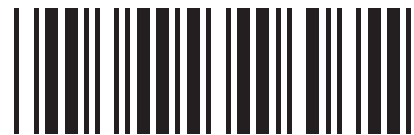
- BE

● **Select large quiet zone 1**



- BG

● **Select large quiet zone 2**



- BH

E x i t



E x i t

. H

String Structure

S t a r t



S t a r t

.----9

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
--------	---------	--------------	--------	-------------------

E x i t



E x i t

. H

Prefix/Suffix

S t a r t



S t a r t

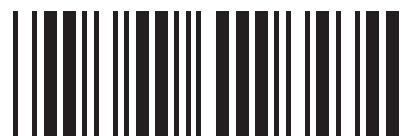
.----9

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

E x i t



E x i t

. H






Prefix/Suffix

S t a r t



S t a r t

.----9

<p>● Clear suffix</p>	 <p>- HB</p>
<p>⊙ Reserved 1</p>	 <p>- GC</p>
<p>⊙ Reserved 2</p>	 <p>- GD</p>
<p>⊙ Reserved 3</p>	 <p>- GE</p>
<p>⊙ Reserved 4</p>	 <p>- GF</p>

E x i t



E x i t

. H

Code ID

S t a r t



S t a r t

.----9

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

E x i t



E x i t

. H

Code ID

S t a r t



S t a r t

.----9

● 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



E x i t



E x i t

. H






Code ID

S t a r t



S t a r t

.----9

<ul style="list-style-type: none">● Set Code 93's ID	 <p>- VK</p>
<ul style="list-style-type: none">● Set Code 11's ID	 <p>- VL</p>
<ul style="list-style-type: none">⊙ 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= "F"; Codabar= "G"; Code 39= "H"; Code 93= "I".	 <p>- VI</p>
<ul style="list-style-type: none">⊙ Clear all codes' ID	 <p>- VJ</p>
<ul style="list-style-type: none">⊙ Reserved 1	 <p>- VM</p>

E x i t



E x i t

H

String Terminator

S t a r t



S t a r t

.----9

★ 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.



- ED

● Select Esc as terminator

"Esc" will be transmitted at the very end of every string to separate from the next one.



- EE

● Select Space as terminator

"Space" will be transmitted at the very end of every string to separate from the next one.



- EC

E x i t



E x i t

H

String Case Conversion

S t a r t



S t a r t

.----9

★ No case conversion DEFAULT



✳ Convert to lower case



● Convert to upper case



⊙ Reserved 1



⊙ Reserved 2



E x i t



E x i t

. H

Symbology EAN/JAN 13

S t a r t



S t a r t

.----9

★ **Enable** DEFAULT



- QB

✳ **Disable**



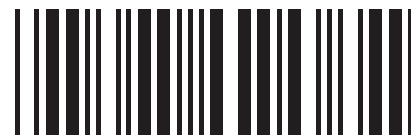
- QA

● **Enable check character transmission** DEFAULT



- QF

● **Disable check character transmission**



- QE

● **Enable leading digit transmission** DEFAULT



- QG

E x i t



E x i t

. H

Symbology EAN/JAN 13

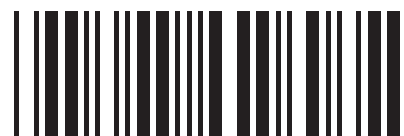
S t a r t



S t a r t

.----9

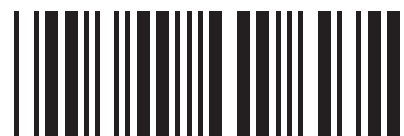
- **Disable leading digit transmission**



- QH

- **Select EAN/JAN 13 without supplement digit**

DEFAULT



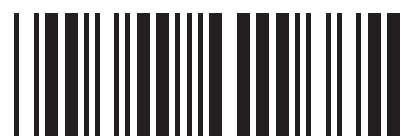
- QK

- **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

E x i t



E x i t

. H

S t a r t



S t a r t

.----9

★ **Disable EAN13 to ISBN conversion** DEFAULT



- QO

★ **Enable EAN 13 to ISBN conversion**



- QP

E x i t



E x i t

. H






Symbology EAN/JAN 8

S t a r t



S t a r t

.----9

<p>★ Enable <input type="checkbox"/> DEFAULT</p>	 <p>- SB</p>
<p>✱ Disable</p>	 <p>- SA</p>
<p>● Enable check character transmission <input type="checkbox"/> DEFAULT</p>	 <p>- SF</p>
<p>● Disable check character transmission</p>	 <p>- SE</p>
<p>● Select EAN/JAN 8 without supplement digit <input type="checkbox"/> DEFAULT</p>	 <p>- SK</p>

E x i t



E x i t

. H






Symbology EAN/JAN 8

S t a r t



S t a r t

.----9

<ul style="list-style-type: none">● Select EAN/JAN 8 with 2 or 5 supplement digits	 <p>- SN</p>
<ul style="list-style-type: none">● Select EAN/JAN 8 with only 5 supplement digits	 <p>- SM</p>
<ul style="list-style-type: none">● Select EAN/JAN 8 with only 2 supplement digits	 <p>- SL</p>
<ul style="list-style-type: none">● Disable EAN 8 expansion <input type="checkbox"/> DEFAULT	 <p>- SG</p>
<ul style="list-style-type: none">● Enable EAN 8 expansion Five zeros will be transmitted in front of the scanned EAN 8 data to expand as EAN 13.	 <p>- SH</p>

E x i t



E x i t

. H

Symbology UPC A

S t a r t



S t a r t

★ **Enable** DEFAULT



✱ **Disable**



● **Enable check character transmission** DEFAULT



● **Disable check character transmission**



● **Enable leading digit transmission** DEFAULT



E x i t



E x i t






Symbology UPC A

S t a r t



S t a r t

.----9

<ul style="list-style-type: none">● Disable leading digit transmission	 <p>- RH</p>
<ul style="list-style-type: none">● Select UPC A without supplement digit DEFAULT	 <p>- RK</p>
<ul style="list-style-type: none">● Select UPC A with 2 or 5 supplement digits	 <p>- RN</p>
<ul style="list-style-type: none">● Select UPC A with only 5 supplement digits	 <p>- RM</p>
<ul style="list-style-type: none">● Select UPC A with only 2 supplement digits	 <p>- RL</p>

E x i t



E x i t

. H

Symbology UPC E

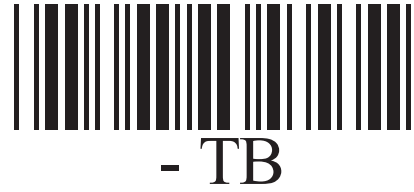
S t a r t



S t a r t

.----9

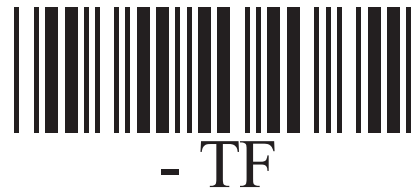
★ **Enable** DEFAULT



✱ **Disable**



● **Enable check character transmission** DEFAULT



● **Disable check character transmission**



● **Select UPC E without supplement digit** DEFAULT



E x i t



E x i t

. H

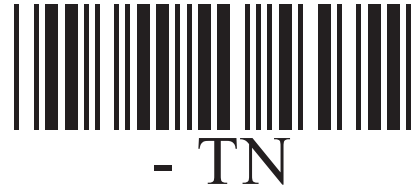
Symbology UPC E

S t a r t



S t a r t

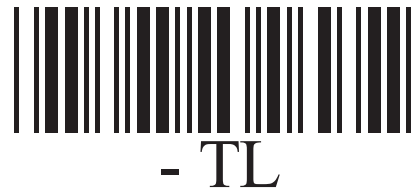
- **Select UPC E with 2 or 5 supplement digits**



- **Select UPC E with only 5 supplement digits**



- **Select UPC E with only 2 supplement digits**



- **Disable UPC E expansion**

DEFAULT



- **Enable UPC E expansion**
Five Zeros will be transmitted in front of the scanned UPC E data to expand as UPC A.



E x i t



E x i t

Symbology Code 39

S t a r t



S t a r t

.----9

★ **Select standard ASCII**

DEFAULT



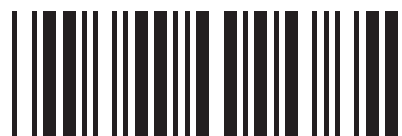
- J C

✱ **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

E x i t



E x i t

. H

Symbology Code 39

S t a r t



S t a r t

.----9

- **Enable check character verification**



-JJ

- **Disable check character transmission** DEFAULT



-JG

- **Enable check character transmission**



-JH

- **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".



-JK

- **Set Max. length**
You can set Max. length from 1 to 99 digits. The default is for 99 digits.
Scan "Start"→Scan Option "● Set Max. Length" here→Scan "01" to "99" in



-JL

E x i t



E x i t






H

S t a r t



S t a r t

.----9

<p>★ Enable</p>	 <p>- KA</p>
<p>✱ Disable <input type="checkbox"/> DEFAULT</p>	 <p>- KB</p>
<p>● Disable check character verification <input type="checkbox"/> DEFAULT</p>	 <p>- KC</p>
<p>● Enable check character verification</p>	 <p>- KD</p>
<p>● Disable check checksum transmission <input type="checkbox"/> DEFAULT</p>	 <p>- KE</p>






E x i t



E x i t

. H

Start  Start
-----9

<ul style="list-style-type: none">● Enable check character transmission	 - KF
<ul style="list-style-type: none">● User define 3 sets available	 - KH
<ul style="list-style-type: none">● 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".	 - KI
<ul style="list-style-type: none">● 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".	 - KJ
<ul style="list-style-type: none">⊙ Reserved	 - KK






Exit  Exit
H

S t a r t



S t a r t

.----9

<p>★ Enable</p>	 <p>- LB</p>
<p>✱ Disable <input type="checkbox"/> DEFAULT</p>	 <p>- LA</p>
<p>● Disable check character verification <input type="checkbox"/> DEFAULT</p>	 <p>- LC</p>
<p>● Enable check character verification</p>	 <p>- LD</p>
<p>● Disable check character transmission <input type="checkbox"/> DEFAULT</p>	 <p>- LE</p>

E x i t



E x i t






. H

S t a r t



S t a r t

.----9

<ul style="list-style-type: none"> ● Enable check character transmission 	 <p>- LF</p>
<ul style="list-style-type: none"> ● User define 3 sets available 	 <p>- LH</p>
<ul style="list-style-type: none"> ● 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". 	 <p>- LI</p>
<ul style="list-style-type: none"> ● 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". 	 <p>- LJ</p>
<p>⊙ Reserved</p>	 <p>- LK</p>

E x i t



E x i t

H

Symbology Code 128

S t a r t



S t a r t

.----9

<p>★ Enable <input type="checkbox"/> DEFAULT</p>	 <p>- OB</p>
<p>✱ Disable</p>	 <p>- OA</p>
<p>● 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".</p>	 <p>- OS</p>
<p>● 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".</p>	 <p>- OT</p>
<p>⊙ Reserved</p>	 <p>- OW</p>
<p>⊙ Reserved</p>	 <p>- OX</p>

E x i t



E x i t

H

Symbology Codabar / NW 7

S t a r t



S t a r t

.----9

★ **Enable** DEFAULT



- PB

✱ **Disable**



- PA

● **Disable start/end character transmission** DEFAULT



- PC

● **Enable start/end character transmission**



- PD

● **Select transmission type of start/end character:**
ABCD → ABCD



- PG

E x i t



E x i t

. H






Symbology Codabar/NW 7

S t a r t



S t a r t

.----9

<ul style="list-style-type: none">● Select transmission type of start/end character: ABCD → TN*E	 <p>- PH</p>
<ul style="list-style-type: none">● Select transmission type of start/end character: abcd → abcd	 <p>- PE</p>
<ul style="list-style-type: none">● Select transmission type of start/end character: abcd → tn*e	 <p>- PF</p>
<p>⊙ Reserved 1</p>	 <p>- PI</p>
<p>⊙ Reserved 2</p>	 <p>- PJ</p>

E x i t



E x i t

H

Symbology Code 93

S t a r t



S t a r t

.----9

<p>★ Enable DEFAULT</p> <p>- OD</p>	<p>● Two of Check (Enable) DEFAULT</p> <p>- OQ</p>
<p>✱ Disable</p> <p>- OC</p>	<p>● One of Check(Enable)</p> <p>- OU</p>
<p>● Disable full ASCII DEFAULT</p> <p>- OE</p>	<p>● Trans Check Char(Disable) DEFAULT</p> <p>- ON</p>
<p>● Enable full ASCII</p> <p>- OF</p>	<p>● Trans Check Char(Enable)</p> <p>- OV</p>
<p>● Number of Check(Disable)</p> <p>- OG</p>	<p>⊙ Reserved 1</p> <p>- OW</p>

E x i t



E x i t

. H

Symbology Code 11

S t a r t



S t a r t

.----9

<p>★ Enable DEFAULT</p> <p>- OI</p>	<p>● Trans Check Char(Disable) DEFAULT</p> <p>- OL</p>
<p>✱ Disable</p> <p>- OH</p>	<p>● Trans Check Char(Enable)</p> <p>- OM</p>
<p>● Two of Check Char(Enable) DEFAULT</p> <p>- OK</p>	<p>● Set Min. Length</p> <p>- OO</p>
<p>● Number of Check Char(Disable)</p> <p>- OJ</p>	<p>● Set Max. Lenth</p> <p>- OP</p>
<p>● One of Check Char(Enable)</p> <p>- OR</p>	<p>⊙ Reserved 1</p> <p>- OW</p>

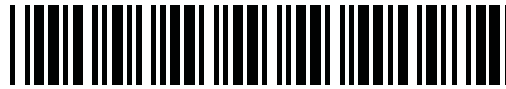
E x i t



E x i t

H

Italian Pharma Code (Code C32) Function



.----9

START

START



-JO

Disable C32 Pharma (Default)



-JP

Enable C32 Pharma



DEMO

-JA

Code39 Disable



DEMO

-JB

Code39 Enable (Default)



. H

EXIT

EXT

HEX / ASCII Table

How to use this HEX/ASCII table?

If you need to input "1" for your setting, please check the table below to see which 2 characters you need. In this case, you need "● " and "1". Then, scan Optional Barcode "3" first and Optional Barcode "1" second. Optional Barcodes are listed in Appendix 2.

Another Example:















"A" = HEX"● " and "1"

First

Second

	For RS232		For Keyboard Wedge							
	✈	★	✈	★	🍁	●	●	●	●	●
0	NUL	DLE	INS	F2	SPACE	0	@	P	`	p
1	SOH	DC1	DEL	F3	!	1	A	Q	a	q
2	STX	DC2	NumLock	F4	"	2	B	R	b	r
3	ETX	DC3	CTRL (L)	F5	#	3	C	S	c	s
4	EOT	DC4	CTRL (R)	F6	\$	4	D	T	d	t
5	ENQ	NAK	Home	F7	%	5	E	U	e	u
6	ACK	SYN	End	F8	&	6	F	V	f	v
7	BEL	ETB	Arrow (L)	F9	'	7	G	W	g	w
8	BS	CAN	BS	F10	(	8	H	X	h	x
9	HT	EM	Tab	F11	)	9	I	Y	i	y
A	LF	SUB	Page Up	F12	*	:	J	Z	j	z
B	VT	ESC	Page Down	ESC	+	;	K	[	k	{
C	FF	FS	Caps Lock	Shift (L)	,	<	L	\	l	|
D	CR	GS	CR	Shift (R)	-	=	M	]	m	}
E	SO	RS	Arrow (R)	Alt (L)	.	>	N	^	n	~
F	SI	US	F1	Alt (R)	/	?	O	-	o	

Optional Barcode

	5	
0		B
	6	
1		C
	7	
2		D
	8	
3		E
	9	
4		F
	A	