BAR CODE

PROGRAMMING MENU

Programming Menu

V3.9

Contents

Chapter 1 Description

1.1 General

Thank you for purchasing this barcode scanner with an advanced and versatile decoder. The decoder works with variety of barcode types, reading devices, and computer interfaces. It discriminates over twenty different symbologies automatically.

This menu provides an easy way to configure the decoding options and interface selections by scanning bar codes listed in the menu.

FCC Approval

This device had been tested in accordance with the procedures and in compliance with Part 15 Subpart B of FCC Rules. And keeps all requirements according ANSI C63.4 & FCC Part 15 B Regulation and CISPR22 Class B.

CE Standards

The CE mark as shown here indicates this product had been tested in accordance with the procedures given in European Council Directive 2004/108/EC and confirmed to comply with the Europe Standard EN55022:2006:Class B, EN 55024:1998+A1:2001+A2:2003,IEC61000-3-2:2006, IEC61000-3-3:1995+A1:2005,IEC61000-4-2:2001, IEC61000-4-3:2006,IEC61000-4-4:2004,IEC61000-4-5: 2006,IEC61000-4-6:2001,IEC61000-4-8:2001,IEC61000-4-11:2004.

LEGISLATION AND WEEE SYMBOL

This marking shown on the product or its literature, indicates that it should not be disposed with other households wastes at the end of its working life. To prevent possible harm to the environment or human healthy from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable re-use of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their suppliers and check the terms and conditions of the purchase

1.2 Introduction

The Decoder is an advanced and versatile decoding facility for barcoding systems .It works with variety of bar code types, reading devices, and computer interfaces. It discriminates about twenty different symbologies automatically.

This manual provides an easy way to configure the decoding options and interface selections by scanning bar codes listed in the menu.

1.3 Codes Read

. Codes Read
All UPC/EAN/JAN, Code 39, Code 39 Full ASCII, Code 128, Interleave 25, Industrial 25, Matrix 25, CODABAR/NW7, Code 11, MSI/PLESSEY, Code 93, China Postage, Code32 / Italian Pharmacy, others available upon request.

1.4 Installation

Unpacking -
Remove the scanner from its packing and check it for damage. If the scanner was defected in transit, please contact your vendor immediately. Be sure that you keep the packing with all accessories contains in the package for your returning of service.

Connecting the scanner -
Keyboard wedge / RS-232C / USB:
Connect the 10-pins RS-45 male connector into the bottom of the scanner and you will hear a "click" when the connection is made.

Power supply for RS-232C scanner -
There are 3 ways to supplying the power, use external +5V power supply, use optional power cable (KBDC) which taking the power from KB wedge or if the host supports +5V power from pin 9.

Installing the scanner to the Host System -
1. Turn off the host system.
2. Connect the power if needed.
3. Connect to the proper port on the host system.
4. Turn on the host system.

Switching cable -
Before removing the cable from the scanner, it is recommended that the power on the host system is off and the power supply has been disconnected from unit.

1. Find the small "Pin-hole" on the bottom of the unit.
2. Use a bended regular paperclip and insert the tip into the hole.
3. You will head a "click", then gentle on the strain-relief of the cable and it will slide out of the scanner.

SG/LG Series

SD Series
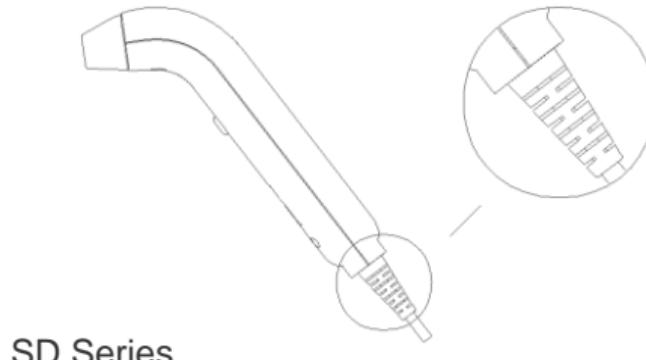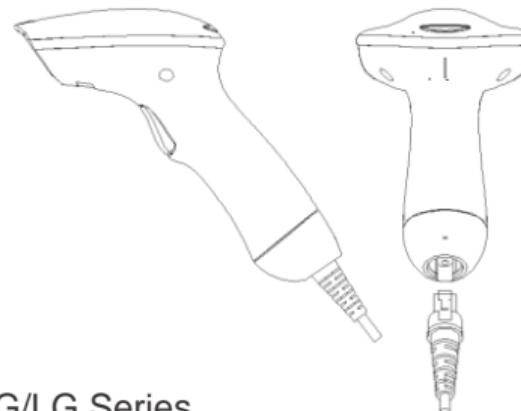
1.5 Pin Assignment

A> Input Port for Mini Decoder
  DB 9 Male

Pin No.	Wand / Slot Reader	CCD / Laser Scanner
1	N.C.	S.O.S.
2	DATA	DATA
3	N.C.	N.C.
4	N.C.	N.C.
5	N.C.	TRIGGER
6	N.C.	P. E.
7	GND	GND
8	SHIELD	SHIELD
9	+5V	+5V
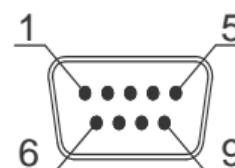
B> Output Port
1. PC Keyboard Output

DIN 5 MALE

Pin No.	Function
1	HOST CLK
2	HOST DATA
4	GND
5	Vcc(+5V)

DIN 5 FEMALE

Pin No.	Function
1	KB CLK
2	KB DATA
4	GND
5	Vcc(+5V)
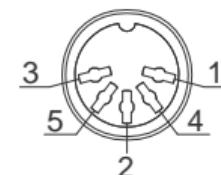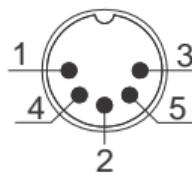
MiniDIN 6 MALE

Pin No.	Function
1	HOST DATA
3	GND
4	Vcc
5	HOST CLK

MiniDIN 6)EMALE

Pin No.	Function
1	KB DATA
3	GND
4	Vcc
5	KB CLK

6
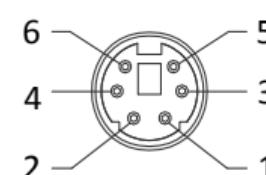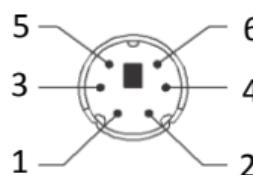
2. RS-232 Output
   DB 9 Female

Pin No.	Function
2	TXD
3	RXD
5	GND
7	CTS
8	RTS
Power Lead	Vcc (+5V)
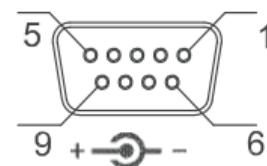
3. WAND Emulation Output
   DB 9 Female

Pin No.	Function
2	DATA
7	GND
9	Vcc (+5V)
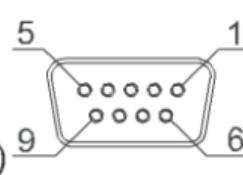
4. ADB Interface

MiniDIN 4 MALE

Pin No.	Function
1	ADB
3	Vcc
4	GND

MiniDIN 4 FEMALE

Pin No.	Function
1	ADB
3	Vcc
4	GND
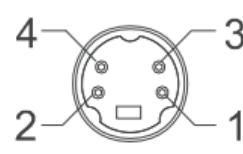
5. NEC 9801 Interface

MiniDIN 8 MALE

Pin No.	Function
1	RST
2	GND
3	HOST RDY
4	HOST DATA
5	RTY
8	+5V
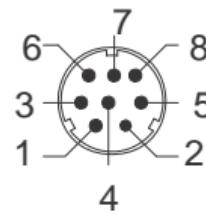
MiniDIN 8 FEMALE

Pin No.	Function
1	RST
3	GND
4	KB RDY
5	KB DATA
4	RTY
5	+5V
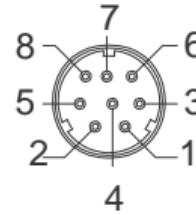
Chapter 2 Configuration - General

2.1 Flow Chart
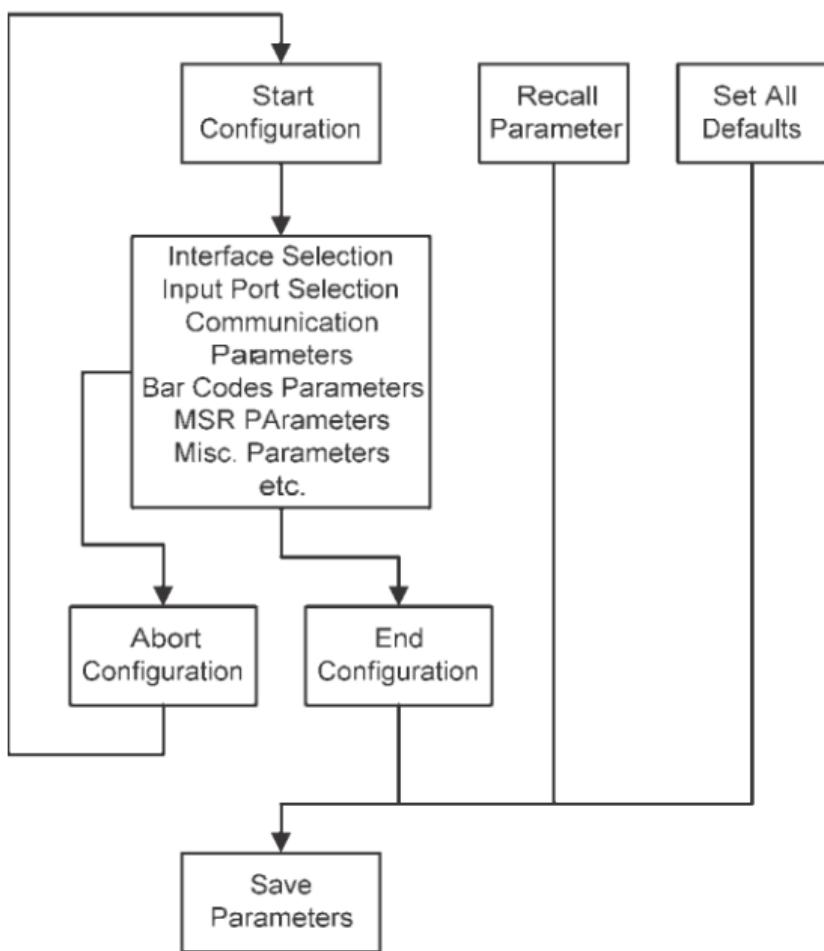
2.2 Loop of Programming

The philosophy of programming parameters has been shown on the flow chart of 2.1. Basically user should

1. Scan Start of Configuration.
2. Scan all necessary labels for parameters that meet applications.
3. Scan End of Configuration to end the programming.
4. To permanently save the settings you programmed, just scan label for Save Parameters.
5. To go back to the Default Settings, just scan label for Set All Defaults.

2.3 Factory Default Settings

The factory default settings are shown with <> and bold in the following sections. You can make your own settings by following the procedures in this manual. If you want to save the settings permanently, you should scan the label of "Save Parameters" in chapter 2.4, otherwise the settings will not be saved after the decoder power is off, and all settings will go back to previous settings.

By scanning "Set All Default" label, the settings will go back to the factory default settings.

2.4 Main Page of Configuration

Save Parameters

‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%$ +/0

Recall Stored Parameters

‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%$ +/ 1

Set All Defaults

‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%$ + / 2

Start Configuration

‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%$ +/ 3

End Configuration

‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%$ +/ 4

Abort Configuration

‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%$ +/ 6

Version Information

‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%$ +/ 5

Save Parameters -
The parameter settings will be saved permanently.

Recall Stored Parameters -
Replace the current parameters by the parameters you saved last time.

Set All Defaults -
Set all the parameters to the factory default settings.

Abort Configuration -
Terminate current programming status.

Version Information -
Display the decoder version information and date code.

Chapter 3 Interface and
Reading Mode Selection

3.1 Interface Selection

<Keyboard Mode>

```
%00 U0
```

RS232 Mode

```
%00 U8
```

WAND Emulation

```
%00 M2
```

USB Mode

```
%0 XO8
```

3.2 Reading Mode Selection

<Good Read OFF>

‖‖‖‖‖‖‖‖‖‖‖‖
%0271

Trigger ON/OFF

‖‖‖‖‖‖‖‖‖‖‖‖
%0270

Continuous/Trigger OFF

‖‖‖‖‖‖‖‖‖‖‖‖
%0272

Testing

‖‖‖‖‖‖‖‖‖‖‖‖
%0275

Continuous/Auto Power On

‖‖‖‖‖‖‖‖‖‖‖‖
%0273

Flash

‖‖‖‖‖‖‖‖‖‖‖‖
%0274

Flash/Auto Power On

‖‖‖‖‖‖‖‖‖‖‖‖
%0276

Reserved1

‖‖‖‖‖‖‖‖‖‖‖‖
%0277

Auto Sense(Option)

‖‖‖‖‖‖‖‖‖‖‖‖
%09F8

Reserved3

‖‖‖‖‖‖‖‖‖‖‖‖
%09F9

Reserved4

‖‖‖‖‖‖‖‖‖‖‖‖
%09FA

Reserved5

‖‖‖‖‖‖‖‖‖‖‖‖
%09FB

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Ch.4 Communication Parameters

4.1 RS232 Communication Parameters

A> Set Up BAUD Rate

1200

%0Y71

2400

%0Y72

4800

%0Y73

<9600>

%0Y77

19200

%0Y74

38400

%0Y75

B> Set Up Data Bits

7 Data Bits

%0Y80

<8 Data Bits>

%0Y88

C> Set Up Stop Bits

<1 Bit>

%0YO8

2 Bits

%0 YO0

D> Set Up Parity

<None>

||||||||||||||||||||||||
%0YN7

Even

||||||||||||||||||||||||
%0YN 2

Odd

||||||||||||||||||||||||
%0YN3

Mark

||||||||||||||||||||||||
%0YN1

Space

||||||||||||||||||||||||
%0 YN0

E Handshaking

RTS/CTS Enable

||||||||||||||||||||||||
%01 8 8

<RTS/CTS Disable>

||||||||||||||||||||||||
%0180

ACK/NAK Enable

||||||||||||||||||||||||
%01 4 4

<ACK/NAK Disable>

||||||||||||||||||||||||
%0 1 4 0

XON/XOFF Enable

||||||||||||||||||||||||
%03 K4

<XON/XOFF Disable>

||||||||||||||||||||||||
%03 K0

4.2 Keyboard Wedge Mode Parameters

A > Terminal Type

<IBM PC/AT, PS/2>

%0ZF0

IBM PC/XT

%0ZF1

IBM PS/2 25, 30

%0ZF2

NEC 9800

%0ZF3

Apple Desktop Bus(ADB)

%0ZF4

IBM 5550

%0ZF5

IBM 122 Key (1)

%0ZF6

IBM 102 Key

%0ZF7

IBM 122 Key (2)

%0ZF8

Reserved 1

%0ZF9

Reserved 2

%0ZFA

Reserved 3

%0ZFB

Reserved 4

%0ZFC

Reserved 5

%0ZFD

B> Upper/Lower Case

<No Change>

||||||| ||| |||||| |||||| ||| ||||
%03 3 0

Upper Case

||||||| ||| |||||| |||||| ||| ||||
%03 3 1

Lower Case

||||||| ||| |||||| |||||| ||| ||||
%03 3 2

C> Caps Lock Detection

Enable

||||||| ||| |||||| |||||| ||| ||||
%0 X88

<Disable>

||||||| ||| |||||| |||||| ||| ||||
%0 X80

D> Send Character by ALT Method
Enable

||||||| ||| |||||| |||||| ||| ||||
%03O8

<Disable>

||||||| ||| |||||| |||||| ||| ||||
%03O0

E> Select Numerical Pad

ON

||||||| ||| |||||| |||||| ||| ||||
%01 K4

<OFF>

||||||| ||| |||||| |||||| ||| ||||
%01 K0

16

4.3　Output Characters Parameters

A> Select Terminator

<CR+LF>

```
%7S2+
```

None

```
%7S7+
```

CR

```
%7S0+
```

LF

```
%7S1+
```

Space

```
%7S4+
```

HT(TAB)

```
%7S3+
```

STX-ETX

```
%7S5+
```

B> Time-out Between Characters

<0 ms>

```
%0070
```

5 ms

```
%0071
```

10 ms

```
%0072
```

25 ms

```
%0073
```

50 ms

```
%0074
```

100 ms

```
%0075
```

200 ms

```
%0076
```

300 ms

```
%0077
```

4.4 Wand Emulation Mode Parameters

A> TTL Level Representation

<Bar Equals High>

%02K4

Bar Equals Low

%02K0

B> Scan Speed Selection

<Fast>

%0288

Slow

%0280

C> Output Format Selection

<Output as Code 39>

%02O8

Output as Code 39
Full ASCII

%02O0

Output as Original
Code Format

%0XK4

Ch.5 Bar Codes & Others

5.1 Symbologies Selection

UPC-A **<ON>**

%0 A 4 4

OFF

%0 A 4 0

UPC-E **<ON>**

%0 B O 8

OFF

%0 B O 0

EAN-13/JAN-13/ISBN-13
<ON>

%0 A 2 2

OFF

%0 A 2 0

EAN-8/JAN-8 **<ON>**

%0 A 1 1

OFF

%0 A 1 0

CODE 39 **<ON>**

%0 E O 8

OFF

%0 E O 0

CODE 128 **<ON>**

%0 F O 8

OFF

%0 F O 0

CODABAR/NW7 **<ON>**

%0 J O 8

OFF

%0JO0

20

Interleave 25 **<ON>**

```
%0GO8
```

OFF

```
%0GO0
```

Industrial 25 ON

```
%0HO8
```

<OFF>

```
%0HO0
```

Matrix 25 ON

```
%0I O8
```

<OFF>

```
%0I O0
```

CODE 93 ON

```
%0KO8
```

<OFF>

```
%0KO0
```

CODE 11 ON

```
%0LO8
```

<OFF>

```
%0LO0
```

China Postage ON

```
%CMO8
```

<OFF>

```
%0MO0
```

MSI/PLESSEY ON

```
%CNO8
```

<OFF>

```
%0NO0
```

Code 2 of 6ON

||||||||||||||||||||||||||||
%0 PO8

<OFF>

||||||||||||||||||||||||||||
%0 POC

LCD25 ON

||||||||||||||||||||||||||||
%0QO8

<OFF>

||||||||||||||||||||||||||||
%0QO0

Telepen ON

||||||||||||||||||||||||||||
%0TO8

<OFF>

||||||||||||||||||||||||||||
%0TO0

Reserved5 ON

||||||||||||||||||||||||||||
%0RO8

<OFF>

||||||||||||||||||||||||||||
%0RO0

Reserved6 ON

||||||||||||||||||||||||||||
%0SO8

<OFF>

||||||||||||||||||||||||||||
%0SO0

GS1 DataBar Omnidirectional ON

```
%0UO8
```

<OFF>

```
%0UO0
```

GS1 DataBar Limited ON

```
%0VO8
```

<OFF>

```
%0VO0
```

GS1 DataBar Expanded ON

```
%0WO8
```

<OFF>

```
%0WO0
```

Select All Bar Codes

```
%1 A/+
```

5.2 UPC/EANI/JAN Parameters

A Reading Type

UPCA=EAN13 ON

||||||||||||||||||||
%0AK4

UPCA=EAN13<OFF>

||||||||||||||||||||
%0AK0

ISBN-1C Enable

||||||||||||||||||||
%0B88

ISBN-13 **<Enable>**

||||||||||||||||||||
%0B80

ISSN Enable

||||||||||||||||||||
%0B44

ISSN **<Disable>**

||||||||||||||||||||
%0B40

Decode with Supplement

||||||||||||||||||||
%01O0

<Auto discriminate Supplement>

||||||||||||||||||||
%01O8

Expand UPC-E Enable

||||||||||||||||||||
%0BH1

Expand UPC-E **<Disable>**

||||||||||||||||||||
%0BH0

EAN8=EAN13 Enable

||||||||||||||||||||
%0AO8

EAN8=EAN13 **<Disable>**

||||||||||||||||||||
%0AO0

GTIN Format Enable

||||||||||||||||||||
%0X44

GTIN Format **<Disable>**

||||||||||||||||||||
%0X40

24

B> Supplemental Set Up

<Not Transmit>

||||||||||||||||||||||||||||||
%0B33

Transmit 2 Code

||||||||||||||||||||||||||||||
%0B31

Transmit 5 Code

||||||||||||||||||||||||||||||
%0B32

Transmit 2&5 Code

||||||||||||||||||||||||||||||
%0B30

C> Check Digit Transmission

UPC-A Check Digit
Transmission **<ON>**

||||||||||||||||||||||||||||||
%0AI2

OFF

||||||||||||||||||||||||||||||
%0AI0

UPC-E Check Digit
Transmission **<ON>**

||||||||||||||||||||||||||||||
%0BI2

OFF

||||||||||||||||||||||||||||||
%0BI0

EAN-8 Check Digit
Transmission **<ON>**

||||||||||||||||||||||||||||||
%0A88

OFF

||||||||||||||||||||||||||||||
%0A80

EAN-13 Check Digit
Transmission **<ON>**

||||||||||||||||||||||||||||||
%0AH1

OFF

||||||||||||||||||||||||||||||
%0AH0

ISSN Check Digit
Transmission **<ON>**

||||||||||||||||||||||||||||||
%0BK4

OFF

||||||||||||||||||||||||||||||
%0BK0

25

5.3 Code 39 Parameters

A> Type of Code

<Standard>

%0EH1

Full ASCII

%0EH0

Italian Pharmacy/Code 32
<OFF>

%0E80

Italian Pharmacy/
Code 32 ON

%0E88

B> Check Digit Transmission

**<Do Not Calculate
Check Digit>**

%0EM2

Calculate Check Digit
& Transmit

%0EM6

Calculate Check Digit
& Not Transmit

%0EM4

C> Output Start/Stop Character

Enable

%0E44

<Disable>

%0E40

26

D> Decode Asterisk

Enable

```
%0E22
```

< Disable>

```
%0E20
```

E> Set Up Code Length

To set the fixed length:
1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.
Repeat the steps 1 - 3 to set additional lengths.

<Variable>

```
%4E1+
```

Fix Length (2 Sets Available)
1. 1st Set Begin

```
%4E00
```

2. Decimal Value
   (Appendix A)

3. 1st Set Complete

```
%4E01
```

1. 2nd Set Begin

```
%4E00
```

2. Decimal Value
   (Appendix A)

3. 2nd Set Complete

```
%4E02
```

Minimum Length
1. Begin

```
%2+-/
```

2. Decimal Value
   (Appendix A)
3. Complete

```
%2C0+
```

27

5.4 Code 128 Parameters

A> Reading Type

UCC/EA1-128
Enable

```
%0F44
```

<UCC/EA1-128
Disable>

```
%0F40
```

<Enable']C1'Code
Format>

```
%0F22
```

Disable']C1'Code
Format

```
%0F20
```

<Enable Code128
Group Separators(GS)>

```
%0F11
```

Disable Code128
Group Separators(GS)

```
%0F10
```

B> Check Digit Transmission

Do Not Calculate
Check Digit

```
%0FN1
```

Calculate Check
Digit & Transmit

```
%0FN7
```

<Calculate Check
Digit& Not Transmit>

```
%0FN5
```

C> Append FNC2

ON

```
%0F88
```

<OFF>

```
%0F80
```

D> Set Up Code Length

To set the fixed length
1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

```
%4E1+
```

Fix Length (2 Sets Available)

1. 1st Set Begin

```
%4F00
```

2. Decimal Value
   (Appendix A)

   3. 1st Set Complete

```
%4F01
```

1. 2nd Set Begin

```
%4F00
```

2. Decimal Value
   (Appendix A)

   3. 2nd Set Complete

```
%4F02
```

Minimum Length

1. Begin

```
%2+-/
```

2. Decimal Value
   (Appendix A)

   3. Complete

```
%2C1+
```

5.5 Interleave 25 Parameters

A> Check Digit Transmission

<Do Not Calculate Check Digit>

```
%0GN3
```

Calculate Check Digit & Transmit

```
%0GN7
```

Calculate Check Digit & Not Transmit

```
%0GN5
```

B Set Up Number of Character

<Even>

```
%0G88
```

Odd

```
%0G80
```

C Brazilian Banking Code

<Disable>

```
%0G40
```

Enable

```
%0G44
```

D> Set 8p Code Length

To set the fixed length:
1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4G1+

Fix Length (2 Sets Available>

1.1st Set Beg

%4G00

2. Decimal Value
   (Appendix A)

3. 1st Set Complete

%4G01

1.2nd Set Begin

%4G00

2. Decimal Value
   (Appendix A)

3. 2nd Set Complete

%4G0 2

Minimum Length

1. Begin

%2+- /

2. Decimal Value
   (Appendix A)

3. Complete

%2C2+

5.6 Industrial 25 Parameters

A> Reading type

IATA25 Enable

%0H44

<Disable>

%0H40

B   Check Digit Transmission

**<Do Not Calculate
Check Digit>**

%0HN3

Calculate Check Digit
& Transmit

%0HN7

Calculate Check Digit
& Not Transmit

%0HN5

C> Set Up Code Length

To set the fixed length
1. Scan the "Begin" label of the desired set.
2. Go the Decimal Value Tables in Appendix A,
   scan label(s) that represents the length to be
   read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4 H1+

Fix Length (2 Sets Available>

1. 1st Set Begin

%4 H00

2. Decimal Value
   (Appendix A)

3. 1st Set Complete

%4 H01

1. 2nd Set Begin

%4H00

2. Decimal Value
   (Appendix A)

3. 2nd Set Complete

%4 H02

Minimum Length
1. Begin

%2 + - /

2. Decimal Value
   (Appendix A)

3. Complete

%2 C3 +

33

5.7 Matrix 25 Parameters

A> Check Digit Transmission

<Do Not Calculate Check Digit>

||||||| || ||||||| ||||| ||| |||| ||||
%0IN3

Calculate Check Digit & Transmit

||||||| || |||||| ||||| ||| |||| ||||
%0IN7

Calculate Check Digit & Not Transmit

||||||| || |||||| ||||| ||| |||| ||||
%0IN5

B> Set Up Code Length

To set the fixed length:
1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

||||||||||||||||||||||||||
%4 I1 +

Fix Length (2 Sets Available)

1. 1st Set Begin

||||||||||||||||||||||||||
%4 I0 0

2. Decimal Value
   (Appendix A)

3. 1st Set Complete

||||||||||||||||||||||||||
%4 I0 0

1. 2nd Set Begin

||||||||||||||||||||||||||
%4 I0 0

2. Decimal Value
   (Appendix A)

3. 2nd Set Complete

||||||||||||||||||||||||||
%4 I0 2

Minimum Length

1. Begin

||||||||||||||||||||||||||
%2 + - /

2. Decimal Value
   (Appendix A)

3. Complete

||||||||||||||||||||||||||
%2 C4 +

35

5.8 CODABAR/NW7 Parameters

A> Set Up Start/Stop Characters Upon Transmission

ON

%C J H1

<OFF>

%0J H0

B> Transmission Type of Start/Stop

<A/B/C/D> <Start>

%04 V F

A Start

%04 V1

B Start

%04 V2

C Start

%0 4V4

D Start

%0 4 V 8

<A/B/C/D> <Stop>

%04 FF

A Stop

%04 F1

B Stop

%04 F 2

C Stop

%04 F 4

D Stop

%04F8

36

C> Set Up Code Length

To set the fixed length:
1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4J1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4J00

2. Decimal Value
   (Appendix A)

3. 1st Set Complete

%4J01

1. 2nd Set Begin

%4J00

2. Decimal Value
   (Appendix A)

3. 2nd Set Complete

%4J02

Minimum Length

1. Begin

%2+-/

2. Decimal Value
   (Appendix A)

3. Complete

%2C5+

5.9 Code 93 Parameters

A> Check Digit Transmission

**<Calculate Check 2 Digits
& Not Transmit>**

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%0KN4

Do Not Calculate
Check Digit

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%0KN3

B> Set Up Code Length

To set the fixed length:
1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A,
   scan label(s) that represents the length to be
   read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

```
%4K1+
```

Fix Length (2 Sets Available)

1. 1st Set Begin

```
%4K00
```

2. Decimal Value
   (Appendix A)

3. 1st Set Complete

```
%4K01
```

1. 2nd Set Begin

```
%4K00
```

2. Decimal Value
   (Appendix A)

3. 2nd Set Complete

```
%4K02
```

Minimum Length

1. Begin

```
%2+-/
```

2. Decimal Value
   (Appendix A)

3. Complete

```
%2C6+
```

39

5.10 Code 11 Parameters

A> Check Digit Transmission

<Do Not Calculate Check Digit>

%0LN3

Calculate Check 1 Digit & Transmit

%0LN7

Calculate Check 2 Digits & Not Transmit

%0LN5

Calculate Check 2 Digits & Transmit

%0LN6

Calculate Check 2 Digits & Not Transmit

%0LN4

B> Set Up Code Length

To set the fixed length:
1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

```
%4L1+
```

Fix Length (2 Sets Available)

1. 1st Set Begin

```
%4L00
```

2. Decimal Value
   (Appendix A)

3. 1st Set Complete

```
%4L01
```

1. 2nd Set Begin

```
%4L00
```

2. Decimal Value
   (Appendix A)

3. 2nd Set Complete

```
%4L02
```

Minimum Length
1. Begin

```
%2+-/
```

2. Decimal Value
   (Appendix A)

3. Complete

```
%2C7+
```

5.11 MSI/PLESSEY Code Parameters

A> Check Digit Transmission

Do Not Calculate
Check Digit

%0NN3

Calculate Check Digit
& Transmit

%0NN7

**<Calculate Check Digit
& Not Transmit>**

%0NN5

B> Set Up Code Length

To set the fixed length:
1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4 N1 +

Fix Length (2 Sets Available)

1. 1st Set Begin

%4 N0 0

2. Decimal Value
   (Appendix A)

3. 1st Set Complete

%4 N0 1

1. 2nd Set Begin

%4 N0 0

2. Decimal Value
   (Appendix A)

3. 2nd Set Complete

%4 N02

Minimum Length

1. Begin

%2 + - /

2. Decimal Value
   (Appendix A)

3. Complete

%2 C9 +

43

5.12 Code 2 of 6 Parameters

A> Check Digit Transmission

<Do Not Calculate Check Digit>

%0 PN3

Calculate Check Digit & Transmit

%0PN7

Calculate Check Digit & Not Transmit

%0PN5

B> Set Up Code Length

To set the fixed length:
1. San the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

%4 P1+

Fix Length (2 Sets Available)

1. 1st Set Begin

%4 P00

2. Decimal Value
(Appendix A)

3. 1st Set Complete

%4 P01

1. 2nd Set Begin

%4 P00

2. Decimal Value
(Appendix A)

3. 2nd Set Complete

%4 P02

Minimum Length

1. Begin

%2 + - /

2. Decimal Value
(Appendix A)

3. Complete

%2 CB+

45

5.13 LCD25 Parameters

A> Check Digit Transmission

<Do Not Calculate Check Digit>

%0QN3

Calculate Check Digit & Transmit

%0QN7

Calculate Check Digit & Not Transmit

%0QN5

B> Setup Code length

To set the fixed length:
1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

barcode
%4 Q1 +

Fix Length (2 Sets Available)

1. 1st Set Begin

barcode
%4Q00

2. Decimal Value
   (Appendix A)

3. 1st Set Complete

barcode
%4Q01

1. 2st Set Begin

barcode
%4Q00

2. Decimal Value
   (Appendix A)

2. 2nt Set Complete

barcode
%4Q02

Minimum Length
1. Begin

barcode
%2 + - /

2. Decimal Value
   (Appendix A)

3. Complete

barcode
%2CC+

5.14 Telepen Parameters

A> Type of Code

\<Full ASCII Mode\>

%0 T80

Compressed Numeric
Mode

%0 T88

B> Check Digit Transmission

Do Not Calculate
Check Digit

%0 TN3

Calculate Check
Digit & Transmit

%0 TN7

\<Calculate Check Digit
& Not Transmit\>

%0 TN5

C> Set Up Code Length

To set the fixed length:
1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>

||||||||||||||||||||||||||||||
%4T1+

Fix Length (2 Sets Available)

1. 1st Set Begin

||||||||||||||||||||||||||||||
%4T00

2. Decimal Value
   (Appendix A)

3. 1st Set Complete

||||||||||||||||||||||||||||||
%4T01

1. 2nd Set Begin

||||||||||||||||||||||||||||||
%4T00

2. Decimal Value
   (Appendix A)

3. 2nd Set Complete

||||||||||||||||||||||||||||||
%4T02

Minimum Length
1. Begin

||||||||||||||||||||||||||||||
%2%+-/

2. Decimal Value
   (Appendix A)

3. Complete

||||||||||||||||||||||||||||||
%2CF+

5.15 GS1 Databar

A> GS1 DataBar Omnidirectionl

<Transmit Check Digit>

%0UN7

Don't Transmit
Check Digit

%0UN5

**<Transmit
Application ID>**

%0U88

Don't Transmit
Application ID

%0U80

Transmit Symbology ID

%0U44

**<Don't Transmit
Symbology ID>**

%0U40

B> GS1 DataBar Limited Parameters

<Transmit Check Digit>

%0VN7

Don't Transmit
Check Digit

%0VN5

\<Transmit Application ID\>

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%0 V88

Don't Transmit
Application ID

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%0V80

Transmit Symbology ID

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%0 V4 4

**\<Don't Transmit
Symbology ID\>**

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%0 V4 0

C\> GS1 DataBar Expanded Parameters

Transmit Symbology ID

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%0 W4 4

**\<Don't Transmit
Symbology ID\>**

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%0W4 0

51

Ch.6 Miscellaneous Parameters

6.1 Language Selection

<US English>

```
%0ZV0
```

UK English
```
%0ZV1
```

Italian
```
%0ZV2
```

Spanish
```
%0ZV3
```

French
```
%0ZV4
```

German
```
%0ZV5
```

Swedish
```
%0ZV6
```

Switzerland
```
%0ZV7
```

Hungarian
```
%0ZV8
```

Japanese
```
%0ZV9
```

Belgium

%0ZVA

Portuguese

%0ZVB

Denmark

%0ZVC

Netherlands

%0ZVD

Turkey

%0ZVE

Reserved2

%0ZVF

6.2 Bar Code ID

ON

%0 0 H1

<OFF>

%0 0 H0

Default

%0 1 3 +

With this function ON, a leading character will be added to the output string while scanning code, user may refer to the following table to know what kind of bar code is being scanned.

Please refer to the table below for matching code ID of codes read in.

Code Type	ID	Code Type	ID
UPC-A	A	UPC-E	B
EAN-8	C	EAN-13	D
CODE 39	E	CODE 128	F
Interleave 25	G	Industrial 25	H
Matrix 25	I	Codabar/NW7	J
CODE 93	K	CODE 11	L
China Postage	M	MSI/PLESSEY	N
Code 2 of 6	P	LCD25	Q
Telepen	T	GS1 DataBar Omnidirectional	U
GS1 DataBar Limited	V	GS1 DataBar Expanded	W

User Define Code ID

To set the code ID:
1. Scan the symbologies label.
2. Go to the ASCII Tables in Appendix B, scan label that represents the desired code ID.

Note:
User define code ID will override default value. Program will not check the conflict. It is possible to have more than two symbologies which have same code ID.

UPC-A

```
||||| ||| || ||| || |||| || ||||
%91A+
```

UPC-E

```
||||| ||| || ||| || |||| || ||||
%91B+
```

EAN-13/JAN-13

```
||||| ||| || ||| || |||| || ||||
%91Y+
```

EAN-8/JAN-8

```
||||| ||| || ||| || |||| || ||||
%91Z+
```

CODE 39

```
||||| ||| || ||| || |||| || ||||
%91E+
```

CODE 128

```
||||| ||| || ||| || |||| || ||||
%91F+
```

CODABAR/NW7

```
||||| ||| || ||| || |||| || ||||
%91J+
```

Interleave 25

```
||||| ||| || ||| || |||| || ||||
%91G+
```

Industrial 25

```
||||| ||| || ||| || |||| || ||||
%91H+
```

Matrix 25

```
||||| ||| || ||| || |||| || ||||
%91I+
```

CODE 93

```
||||| ||| || ||| || |||| || ||||
%91K+
```

CODE 11

```
||||| ||| || ||| || |||| || ||||
%91L+
```

ChinaPostage

```
||||| ||| || ||| || |||| || ||||
%91M+
```

MSI/PLESSEY

```
||||| ||| || ||| || |||| || ||||
%91N+
```

Code 2 of 6

||||||||||||||||||||||||||||
%91P+

Telepen

||||||||||||||||||||||||||||
%91T+

LCD25

||||||||||||||||||||||||||||
%91Q+

GS1 DataBar
Omnidirectional ON

||||||||||||||||||||||||||||
%91U+

GS1 DataBar
Limited ON

||||||||||||||||||||||||||||
%91V+

GS1 DataBar
Expanded ON

||||||||||||||||||||||||||||
%91W+

Reserved5

||||||||||||||||||||||||||||
%91R+

Reserved6

||||||||||||||||||||||||||||
%91S+

6.3 Reading Level

Bar Equals High

%03I2

<Bar Equals Low>

%03I0

6.4 Accuracy

<1 Time>

%0130

2 Times (V-1040/LG700)

%0131

3 Times

%0132

4 Times

%0133

6.5 Buzzer Beep Tone

<High>

%01J3

Medium

%01J2

Low

%01J1

Off

%01J0

6.6 Sensitivity of Continuous Reading Mode

A> Quick Setting:
<Fast>

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%0388

Slow

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%0380

B> Same Code Delay Reading Interval

Following code sequences represent the length of time before a barcode can be rescanned at continuous and flash reading mode. The value can be defined from 1-50 and they represent 100ms to 5 seconds in100ms interval. Default value is 3 (0.3 seconds).

To setup same code delay reading interval:

1.Scan the "Begin" label
2.Go the Decimal Value Tables in Appendix A, Scan label(s),that represents the same code delay reading interval. They are ranged form 1-50.One step is represented 0.1second.So the interval is from 0.1 to 5 seconds.
3.Scan the "Complete" label

Repeat the steps 1-3 to set time out of same symbol

1.Begin

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%3000

2.Decimal Value
(1-50) (Appendix A)

3.Complete

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%3001

6.7 Reverse Output Characters

<Disable>

||||||||||||||||||||||||||||||||
%03H0

Enable

||||||||||||||||||||||||||||||||
%03H1

6.8 Setup Deletion

To setup the deletion of output characters:

1. Scan the label of the desired set below.
2. Scan the label of the desired symbology.
3. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the desired position to be deleted.
4. Scan the "Complete" label of "Character Position to be Deleted".
5. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the number of characters to be deleted.
6. Scan the "Complete" label of "Number of Characters to be Deleted".

Repeat the steps 1 – 6 to set additional deletion.

A> Select Deletion Set Number

1. 1st Set

||||||||||||||||||||||||||||||||
%800+

2. 2nd Set

||||||||||||||||||||||||||||||||
%801+

3. 3rd Set

||||||||||||||||||||||||||||||||
%802+

4. 4th Set

||||||||||||||||||||||||||||||||
%803+

5. 5th Set

||||||||||||||||||||||||||||||||
%804+

6. 6th Set

||||||||||||||||||||||||||||||||
%805+

B> Symbologies Selection

UPC-A

||||||||||||||||||||||||||||||||
%81A+

UPC-E

||||||||||||||||||||||||||||||||
%81B+

EAN-13/JAN-13/ISBN-13

||||||||||||||||||||||||||||||||
%81Y+

EAN-8/JAN-8

||||||||||||||||||||||||||||||||
%81Z+

CODE 39

||||||||||||||||||||||||||||||||
%81E+

CODE 128

||||||||||||||||||||||||||||||||
%81F+

CODABAR/N97

||||||||||||||||||||||||||||||||
%81J+

Interleave 25

||||||||||||||||||||||||||||||||
%81G+

Industrial 25

||||||||||||||||||||||||||||||||
%81H+

Matrix 25

||||||||||||||||||||||||||||||||
%81I+

CODE 93

||||||||||||||||||||||||||||||||
%81K+

CODE 11

||||||||||||||||||||||||||||||||
%81L+

China Postage

||||||||||||||||||||||||||||||||
%81M+

MSI/PLESSEY

||||||||||||||||||||||||||||||||
%81N+

Code 2 of 6

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
% 81P+

Telepen

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%81T+

LCD25

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%81Q+

GS1 DataBar
Omnidirectional

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%81U+

GS1 DataBar
Limited

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%8 1 V+

GS1 DataBar
Expanded

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
% 81W+

All Codes

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%8 1 S+

None

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
% 814+

C> Character Position to be Deleted

1. Decimal Value
   (Appendix A)   2. Complete

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%8 20+

D> Number of Characters to be Deleted

1. Decimal Value
   (Appendix A)   2. Complete

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
%8 30+

6.9 Setup Insertion

To setup the insertion of output characters

1. Scan the label of the desired set.
2. Scan the label of the desired symbology.
3. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the desired position to be inserted.
4. Scan the "Complete" label of "Character Position to be Inserted".
5. Go to the ASCII Tables in Appendix B or Function Key Tables in Appendix C, scan label(s) that represents the desired characters to be inserted.
6. Scan the "Complete" label of "Characters to be inserted".

Repeat the steps 1 - 6 to set additional insertion.

A> Select Insertion Set Number

1. 1st Set

%500+

2. 2nd Set

%501+

3. 3rd Set

%502+

4. 4th Set

%503+

5. 5th Set

%504+

6. 6th Set

%505+

B> Symbologies Selection

UPC-A

```
%51A+
```

UPC-E

```
%51B+
```

EAN-13/JAN-13/ISBN-13

```
%51Y+
```

EAN-8/JAN-8

```
%51Z+
```

CODE 39

```
%51E+
```

CODE 128

```
%51F+
```

CODABAR/NW7

```
%51J+
```

Interleave 25

```
%51G+
```

Industrial 25

```
%51H+
```

Matrix 25

```
%51I+
```

CODE 93

```
%51K+
```

CODE 11

```
%51L+
```

China Postage

```
%51M+
```

MSI/PLESSEY

```
%51N+
```

Code 2 of 6

||||||||||||||||||||||||||||
%51P+

Telepen

||||||||||||||||||||||||||||
%51T+

LCD255

||||||||||||||||||||||||||||
%51Q+

GS1 DataBar
Omnidirectional

||||||||||||||||||||||||||||
%51U+

GS1 DataBar
Limited

||||||||||||||||||||||||||||
%51V+

GS1 DataBar
Expanded

||||||||||||||||||||||||||||
%51W+

All Codes

||||||||||||||||||||||||||||
%51S+

None

||||||||||||||||||||||||||||
%514+

C> Character Position to be Inserted

1. Decimal Value
   (Appendix A)

2. Complete

||||||||||||||||||||||||||||
%520+

D> Characters to be Inserted

1. ASCII Table
   (Appendix B)

2. Complete

||||||||||||||||||||||||||||
%530+

64

6.10 Scanning Line Selection for Multi Parallel lines modes

**\<Double Click to Interchange
Multi Parallel / Single line\>**

Multiple Parallel Lines Only

Single Line Only

Ch7. Bluetooth Configuration

BT Parameter Set Default

||||||||||||||||||||||||||||||||||

7.1 Scanner Mode

A>Setup SPP Master Mode

<SPP Master Mode>

||||||||||||||||||||||||||||||||||

Please follow the steps to setup the communication between the scanner and cradle.
1) The scanner must scan "SPP Master Mode" barcode to set the scanner in master mode.
2) Scan the Bluetooth MAC address code located on the bottom of the cradle.
3) When the Bluetooth MAC address code was successfully scanned, scanner will sound 3 short beeps with green LED flash once.
4) Wait approximately five seconds for completing the connection process with up-tone.
5) If successful, blue LED of scanner will slow flash and the cradle will be continued on.

B>Setup SPP Slave Mode

SPP Slave Mode

||||||||||||||||||||||||||||||||||

Please follow the below steps to setup the communication between the scanner and Bluetooth application device.
1) The scanner must scan "SPP Slave Mode" barcode, to set the scanner in slave mode.
2) When control the Bluetooth device to search the scanner, enter pin code (default 00:00:00) to setup comport.
3) When scanner is successful connected, the scanner blue LED will also blink with up-tone. Blue LED will slowly flash to finish the setup.

HID Slave Mode

To setup the communication between the scanner and Bluetooth HID profile application device, follow the steps.

1) The scanner must scan "HID Slave Mode" barcode to set the scanner in HID slave mode.
2) When control the Bluetooth device to search the scanner, enter pin code to setup pairing. You can scan number barcode on Appendix D, "Decimal Value Table II" number 0~9, to setup.
3) When scanner is successful connected, scanner blue LED will also blink with up-tone. Blue LED will slowly flash to finish the setup.

7.2 Out of Range

When "Out of Range" function is enabled, and the scanner is working at out of transmission range, the scanned data will be stored to out-of-range memory. Memory size is approximately 25,000 sets of EAN13 barcode type. The all stored data will be transmitted to device when the link is reconnected, and the all data stored in out-of-range memory will be cleared.

<Out of Range Enable>

Out of Range Disable

7.3 Sleep Mode

The scanner is equipped with sleep mode function to save battery energy when the scanner is not used for 1 minute or 10 minutes. During sleep mode, all the functions and connection will be halted until pressing the trigger button. The communication with cradle or Bluetooth device will be reconnected.

Sleep Mode 1 min. ON

```
||||||||||||||||||||||||||||||
```

Sleep Mode10 min. ON

```
||||||||||||||||||||||||||||||
```

<Sleep Mode OFF>

```
||||||||||||||||||||||||||||||
```

7.4 Batch Mode

"***" means "Quick Setting Label". The function can be executed directly by scanning barcode instead of doing the general programming process.

Batch Mode On

```
||||||||||||||||||||||||||||||
```

< Batch Mode Off>

```
||||||||||||||||||||||||||||||
```

*** Batch Data Read

```
||||||||||||||||||||||||||||||
```

*** Batch Data Clear

```
||||||||||||||||||||||||||||||
```
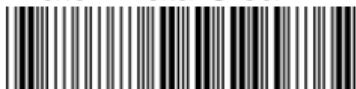
***Delete Last Data

```
||||||||||||||||||||||||||||||
```

7.5 Firmware Version

Display the firmware version of the scanner, please scan below barcode.

Scanner Firmware Version

Cradle Firmware Version

Scanner MAC Address

Cradle MAC Address

Appendix A Decimal Value Table

0

1

2

3

4

5

6

7

8

9

Appendix B ASCII Table

NULL
00

SOH
01

STX
02

ETX
03

EOT
04

ENQ
05

ACK
06

BEL
07

HT
09

BS
08

LF
0A

FF
0C

VT
0B

CR
0D

SI
0F

SO
0E

DLE
10

DC2
12

DC1
11

DC3
13

NAK
15

DC4
14

SYN
16

CAN
18

ETB
17

EM
19

ESC
1B

SUB
1A

FS
1C

RS
1E

GS
1D

US
1F

SPACE

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20

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21

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23

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22

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24

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26

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27

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2C

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2B

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2D

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2F

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2E

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32

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31

3

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33

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35

4

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34

6

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36

8

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38

7

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37

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39

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3B

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3A

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3C

>

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3E

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3D

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B

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42

C

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D

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44

E

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45

F

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46

G

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47

H

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48

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49

J

||||||||||||||||||
4A

K

||||||||||||||||||
4B

L

||||||||||||||||||
4C

M

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4D

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4E

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P

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Q

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V

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56

W

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X

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58

Y

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59

Z

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a

61

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62

d

64

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66

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67

i

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68

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6A

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6C

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6B

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6D

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6F

n

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p

7C

r

72

q

71

s

73

u

75

t

74

v

76

x

78

w

77

y

79

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7B

z

7A

l

7C

~

7E

}

7D

DEL

7F

Appendix C Function Key Table

F1
C0

F2
C1

F3
C2

F4
C3

F5
C4

F6
C5

F7
C6

F8
C7

F9
C8

F10
C9

F11
CA

F12
CB

Insert
CC

Delete
CD

Home
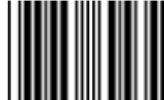CE

Page Up
CF

Page Down
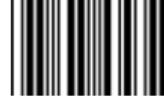D0

End
D1

Left
D2

Right
D3

Up
D4

Down
D5

Appendix D   Decimal Value Table II

0		**1**	
2		**3**	
4		**5**	
6		**7**	
8		**9**	
Enter			

All above programming are subject to change without notice.

Save Parameters

%$+/0

Recall Stored
Parameters

%$+/1

Set All Defaults

%$+/2

Start Configuration

%$+/3

End Configuration

%$+/4

Abort Configuration

%$+/6

Version Information

%$+/5

Ver3.9
0145-85E00I1

FC (€ ⌧