

BAR CODE

PROGRAMMING MENU

Programming Menu

V4.1

Notice

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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 to 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.

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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 reuse 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.

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Ch. 1 Description

1.1 General

Thank you for purchasing this linear imager barcode scanner. The user friendly functions make it easily to be operated to accommodate variety of environment. It also provides users with the most cost-effective solution in the market. The scanner is perfectly suitable and definitely the best choice for any retail and logistic environment.

1.2 Introduction

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

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

1.3 Codes Read

The scanner supports following barcode types:
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 Post, Code32/Italian Pharmacy, Code 26,
LCD 25, Telepen, GS1 Databar, and others
available upon request.

1.4 Installation

Unpacking -

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

Connecting the scanner -

Keyboard wedge/RS-232C/USB:

Connect the 10-pins RS-45 male connector to the bottom of scanner and you will hear a "click" when the connection is made.

Power supply for RS-232C scanner -

There are 3 ways to supply the power: external +5V power supply adaptor, optional power cable (KBDC) which taking the power from KB wedge or +5V power supplied from the pin 9 of host.

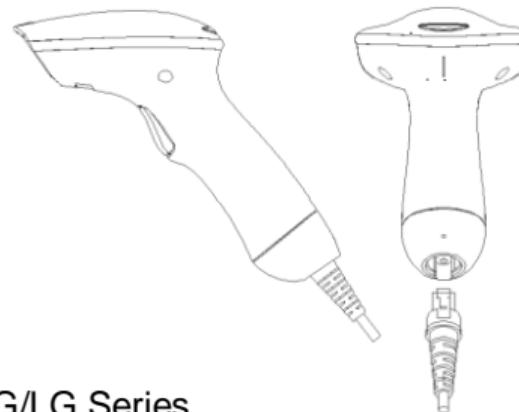
Installing the scanner to the Host System -

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.

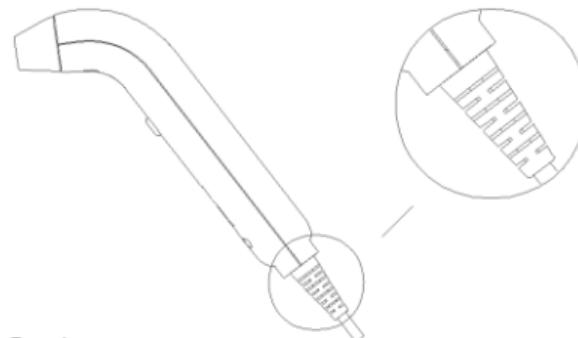
Switching cable -

Before removing the cable from the scanner, it is recommended to turn off power on the host system and disconnect the power supply 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. When hear a "click", gently move out the strain-relief of the cable and it will slide out of the scanner.



SG/LG Series



SD Series

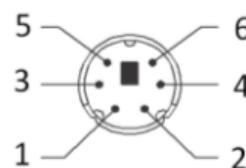
1.5 Pin Assignment

A.

Keyboard Output

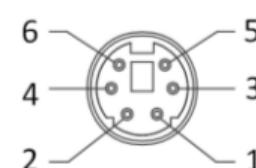
MiniDIN 6 MALE

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



MiniDIN 6 FEMALE

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



B.

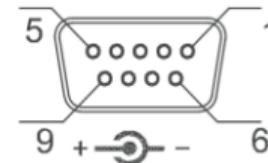
RS-232 Output

DB 9 Female

Pin No. Function

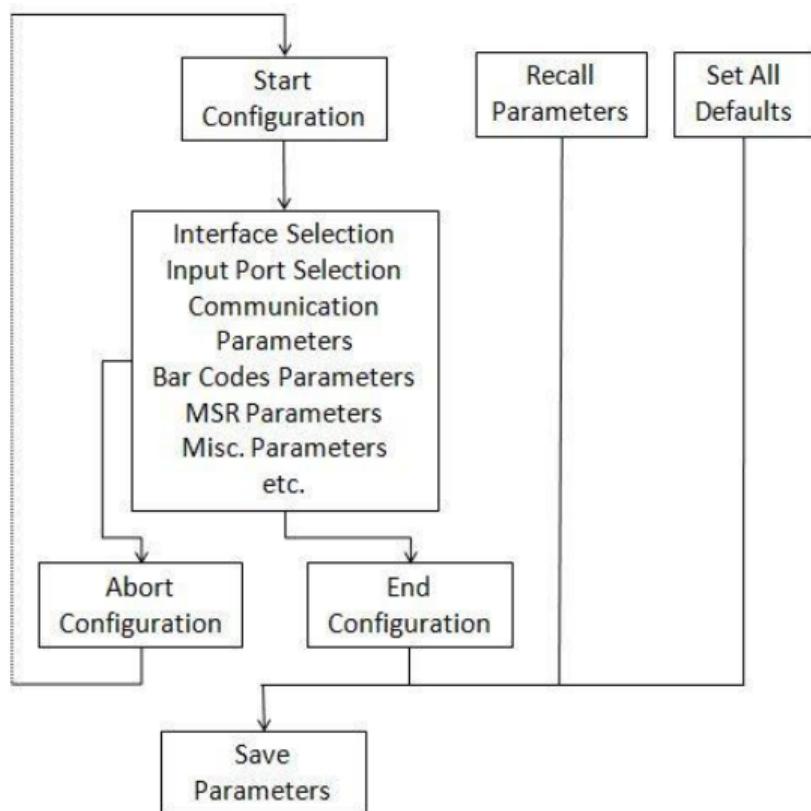
2	TXD
3	RXD
5	GND
7	CTS
8	RTS

Power Lead Vcc (+5V)



Ch. 2 Configuration

2.1 Flow Chart



2.2 Loop of Programming

The procedure of programming parameters is shown on the flow chart. Basically it is implemented by:

1. Scan “Start Configuration”.
2. Scan all necessary barcodes for parameters that meet applications.
3. Scan “End Configuration” to end the programming.
4. To permanently save the parameters, scan “Save Parameters”.
5. To go back to the default settings, scan “Set All Defaults”.

2.3 Factory Default Settings

The factory default settings are shown with <> and bold in the following sections. Make your own settings by following the procedures in this manual. To save the settings permanently, scan the barcode of “Save Parameters” on “Main Page of Configuration”. Otherwise the settings will be lost after the decoder power is off, and all settings will go back to previous saved settings.

By scanning “Set All Default” barcodes, 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 parameters will be saved permanently.

Recall Stored Parameters -

Replace the current parameters by the parameters saved last time.

Set All Defaults -

Set all the parameters to the factory default settings.

Abort Configuration -

Terminate the current programming procedure.

Version Information -

Display the decoder version and date code.

Ch. 3 Interface and Reading Mode

3.1 Interface Selection

Keyboard Mode



%00U0

RS232 Mode



%00U8

Virtual COM



%0088

<USB Mode>



%0X08

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

Ch. 4 Communication Parameters

4.1 RS232 Communication Parameters

A> Setup Baud Rate

1200



%0Y71

2400



%0Y72

4800



%0Y73

<9600>



%0Y77

19200



%0Y74

38400



%0Y75

B> Setup Data Bits

7 Data Bits



%0Y80

<8 Data Bits>



%0Y88

C> Setup Stop Bits

<1 Bit>



%0Y08

2 Bits



%0Y00

D> Setup Parity Check

<None>



%0YN7

Even



Odd



%0YN3

Mark



Space



%0YN0

%0YN1

E> Setup Handshaking

RTS/CTS Enable



%0188

<RTS/CTS Disable>



%0180

ACK/NAK Enable



%0144

<ACK/NAK Disable>



XON/XOFF Enable



%03K4

%0140

<XON/XOFF Disable>



%03K0

4.2 Keyboard Wedge Mode Parameters

A> Upper/Lower Case

<No Change>



%0330

Upper Case



%0331

Lower Case



%0332

B> Caps Lock Detection

Enable



%0 X88

<Disable>



%0 X80

C> Send Character by ALT Method

Enable



%0308

<Disable>



D> Select Numerical Pad

%0300

ON



%01 K4

<OFF>



%01 K0

4.3 Output Character 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

Ch. 5 Barcodes & Others

5.1 Symbology Selection

UPC-A <ON>



%0 A44

OFF



%0 A40

UPC-E <ON>



%0 BO8

OFF



%0 BO0

EAN-13/JAN-13/ISBN-13

<ON>



%0 A22

OFF



%0A20

EAN-8/JAN-8 <ON>



%0 A11

OFF



%0 A10

CODE 39 <ON>



%0 EO8

OFF



%0EO0

CODE 128 <ON>



%0 FO8

OFF



%0FO0

Codabar/NW7 <ON>



%0 J08

OFF



%0JO0

Interleaved 25 <ON>



%0GO8

OFF

CODE 93 ON



%0KO8

<OFF>

**MSI/Plessey
ON**



%0NO8

<OFF>

%0KO0

GS1 Databar-Omnidirectional ON



%0UO8

<OFF>



%0UO0

GS1 Databar-Limited ON



%0VO8

<OFF>



%0VO0

GS1 Databar-Expanded ON



%0WO8

<OFF>



%0WO0

Select All Barcodes



%1 A/+

5.2 UPC/EAN/JAN Parameters

A> Reading Type

UPCA=EAN13 ON



%0AK4

ISBN-10 Enable



%0B88

ISSN Enable



%0B44

Decode with Supplement



%0100

Expand UPC-E
Enable



%0BH1

EAN8=EAN13
Enable



%0AO8

GTIN Format
Enable



%0X44

UPCA=EAN13<OFF>



%0AK0

ISBN-13 <Enable>



%0B80

ISSN <Disable>



%0B40

<Auto discriminate
Supplemental>



%0108

Expand UPC-E
<Disable>



%0BH0

EAN8=EAN13
<Disable>



%0AO0

GTIN Format
<Disable>



%0 X40

B> Supplemental Setup

<Not Transmit>



%0B33

Transmit 5 Digits



%0B32

Transmit 2 Digits



%0B31

Transmit 2&5 Digits



%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

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

D> Decode Asterisk

Enable



%0E22

< Disable >



%0E20

E> Setup Code Length

To set the fixed length:

1. Scan “Begin” for the desired set.
2. Go to the Decimal Value Table in Appendix A. Scan barcode(s) that represents the length to be read.
3. Scan “Complete” for 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+

5.4 Code 128 Parameters

A> Reading Type

UCC/EAN-128

Enable



%0 F44

<UCC/EAN-128
Disable>



%0F40

Enable 'J1' Code Format



%0F22

<Disable 'J1' 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

Do Not Calculate Check Digit & Transmit



%0FN3

C> Append FNC2

ON



%0F88

<OFF>



%0F80

D> Setup Code Length

To set the fixed length:

1. Scan “Begin” for the desired set.
2. Go to the Decimal Value Table in Appendix A.
Scan barcode(s) that represents the length to be read.
3. Scan “Complete” for the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>



%4F1+

Fix Length (2 Sets Available)

1. 1st Set Begin
2. Decimal Value



%4F00

2. Decimal Value

(Appendix A)

3. 1st Set Complete



%4F01

1. 2nd Set Begin

2. Decimal Value
- (Appendix A)



%4F00

3. 2nd Set Complete



%4F02

Minimum Length

1. Begin



%2+- /

2. Decimal Value
- (Appendix A)

3. Complete



%2C1+

5.5 Interleaved 25 Parameters

A> Check Digit Transmission

<Do Not Calculate
Check Digit>



%0GN3

Calculate Check Digit
& Transmit



%0GN7

Calculate Check Digit
& Not Transmit



%0GN5

B> Setup Number of Character

<Even>



%0G 88

Odd



%0G 80

C> Brazilian Bank Code

<Disable>



%0G40

Enable



%0G44

D> Setup Code Length

To set the fixed length:

1. Scan “Begin” for the desired set.
2. Go to the Decimal Value Table in Appendix A.
Scan barcode(s) that represents the length to be read.
3. Scan “Complete” for the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>



%4G1+

Fix Length (2 Sets Available)

1. 1st Set Begin
2. Decimal Value
(Appendix A)
3. 1st Set Complete



%4G00



%4G01

1. 2nd Set Begin

2. Decimal Value
(Appendix A)



%4G00

3. 2nd Set Complete



%4G02

Minimum Length

1. Begin
2. Decimal Value
(Appendix A)



%2+- /

3. Complete



%2C2 +

5.6 Codabar/NW7 Parameters

A> Setup Start/Stop Characters Upon Transmission

ON



%CJH1

<OFF>



%0JH0

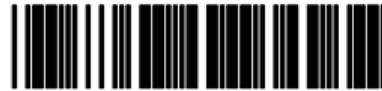
B> Check Digit Transmission

<Do Not Calculate Check Digit & Transmit>



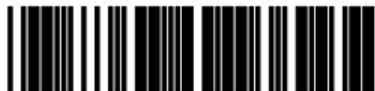
%0JM2

Calculate Check Digit & Transmit



%0JM6

Calculate Check Digit & Not Transmit



%0JM4

C> Transmission Type of Start/Stop

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



%04 VF

A Start



%04 V1

B Start



%04 V2

C Start



%04 V4

D Start



%04 V8

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



%04FF

A Stop



%04 F1

B Stop



%04 F2

C Stop



%04 F4

D Stop



%04F8

C> Setup Code Length

To set the fixed length:

1. Scan “Begin” for the desired set.
2. Go to the Decimal Value Table in Appendix A.
Scan barcode(s) that represents the length
to be read.
3. Scan “Complete” for the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>



%4J1+

Fix Length (2 Sets Available)

1. 1st Set Begin
2. Decimal Value
(Appendix A)



%4J00

3. 1st Set Complete



%4J01

1. 2nd Set Begin



%4J00

2. Decimal Value
(Appendix A)



%4J02

3. 2nd Set Complete

Minimum Length

1. Begin
2. Decimal Value
(Appendix A)



%2+- /

3. Complete



%2C5+

5.7 Code 93 Parameters

A> Check Digit Transmission

<Calculate 2 Check Digits
& Not Transmit>



%0KN4

Do Not Calculate
Check Digits



%0KN3

B> Setup Code Length

To set the fixed length:

1. Scan “Begin” for the desired set.
2. Go to the Decimal Value Table in Appendix A.
Scan barcode(s) that represents the length to be read.
3. Scan “Complete” for the desired set.

Repeat the steps 1 - 3 to set additional lengths.

<Variable>



%4 K1 +

Fix Length (2 Sets Available)

1. 1st Set Begin



%4 K0 0

2. Decimal Value
(Appendix A)

3. 1st Set Complete



%4 K0 1

1. 2nd Set Begin



%4 K0 0

2. Decimal Value
(Appendix A)

3. 2nd Set Complete



%4 K0 2

Minimum Length

1. Begin



%2+- /

2. Decimal Value
(Appendix A)

3. Complete



%2 C6 +

5.8 MSI/Plessey Parameters

A> Check Digit Transmission

Do Not Calculate
Check Digit



%0NN3

Calculate Check Digit
& Transmit



%0NN7

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



%0NN5

B> Setup Code Length

To set the fixed length:

1. Scan “Begin” for the desired set.
2. Go to the Decimal Value Table in Appendix A.
Scan barcode(s) that represents the length to be read.
3. Scan “Complete” for 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 +

5.9 GS1 Databar Parameters

A> GS1 Databar-Omnidirectional

<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

<Transmit Check Digit>



%0VN7

Don't Transmit
Check Digit



%0VN5

<Transmit Application ID>



%0V88

Don't Transmit
Application ID



%0V80

Transmit Symbology ID



%0V44

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



%0V40

C> GS1 Databar-Expanded

Transmit Symbology ID



%0W44

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



%0W40

Ch. 6 Miscellaneous Parameters

6.1 Language Selection

<US English>



%0ZV0

UK English



%0ZV1

Italian



%0ZV2

Spanish



%0ZV3

French



%0ZV4

German



%0ZV5

Swedish



%0ZV6

Swiss



%0ZV7

Hungarian



%0ZV8

Japanese



%0ZV9

Belgium



%0ZVA

Danish



%0ZVC

Portuguese



%0ZVB

Turkish



%0ZVE

Dutch



%0ZVD

Reserved2



%0ZVF

6.2 Barcode ID

ON



%00H1

<OFF>



%00H0

Default



%913+

With this function ON, a leading character, barcode ID, will be added to the output string while scanning barcodes.

Refer to the following table to check what type of barcode is scanned.

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

User Define Code ID

To set desired code ID:

1. Scan the symbology barcode.
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 with the same code ID.

UPC-A



%91A+

EAN-13/JAN-13



%91Y+

CODE 39



%91E+

Codabar/NW7



%91J+

CODE 93



%91K+

GS1 Databar-Limited



%91V+

GS1 Databar-Expanded



%91W+

UPC-E



%91B+

EAN-8/JAN-8



%91Z+

CODE 128



%91F+

Interleaved 25



%91G+

MSI/Plessey



%91N+

GS1 Databar-Omnidirectional



%91U+

Reserved 5



%91R+

6.3 Reading Level

Bar Equals High



%031 2

<Bar Equals Low>



%031 0

6.4 Accuracy

<1 Time>



%013 0

2 Times (V-1040/LG700)



%013 1

3 Times



%013 2

4 Times



%013 3

6.5 Buzzer Tone

<High>



%01J 3

Medium



%01J 2

Low



%01J 1

OFF



%01J 0

6.6 Power On Beep(Option)

<High>



%A4J3

Low

OFF



%A4J1



%A4J0

6.7 Sensitivity of Continuous Reading Mode

A> Same Code Delay Reading Interval

This is to configure the length of delay time prior to an identical barcode can be rescanned. The value is defined from 1-50 that represents 100ms - 5 seconds in 100ms interval. The default value is 3 (0.3 seconds).

This setting is only applicable to continuous and flash reading modes.

To setup same code delay reading interval:

1. Scan "Begin".
2. Go the Decimal Value Tables in Appendix A.
Scan barcode(s) that represents the delay reading interval. The range is from 1 to 50. An interval represents 0.1 second.
Therefore, the available range is from 0.1 to 5 seconds.
3. Scan "Complete".

1. Begin



%3000

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

3. Complete



%3001

6.8 Reverse Output Characters

<Disable>



%03H0

Enable



%03H1

6.9 Setup Deletion

Setup the deletion of output characters:

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

Repeat steps 1 - 6 to configure additional deletion set.

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> Symbology Selection

UPC-A



%81A+

EAN-13/JAN-13/ISBN-13



%81Y+

CODE 39



%81E+

Codabar/NW7



%81J+

CODE 93



%81K+

GS1 DataBar-
Omnidirectional



%81U+

UPC-E



%81B+

EAN-8/JAN-8



%81Z+

CODE 128



%81F+

Interleaved 25



%81G+

MSI/Plessey



%81N+

GS1 DataBar-Limited



%81V+

GS1 DataBar- Expanded



% 81W+

All Barcodes



None

%8 1S+



% 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+

6.10 Setup Insertion

Setup the insertion of output characters:

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

Repeat steps 1 - 6 to configure additional insertion set.

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> Symbology Selection

UPC-A



%51A+

EAN-13/JAN-13/ISBN-13



%51Y+

CODE 39



%51E+

Codabar/NW7



%51J+

CODE 93



%51K+

GS1 DataBar-
Omnidirectional



%51U+

UPC-E



%51B+

EAN-8/JAN-8



%51Z+

CODE 128



%51F+

Interleaved 25



%51G+

MSI/Plessey



%51N+

GS1 DataBar-Limited



%51V+

GS1 Databar- Expanded



%5 1 W +

All Barcodes



None

%5 1 S +



%5 1 4 +

C> Character Position to be Inserted

1. Decimal Value
(Appendix A)

2. Complete



%5 2 0 +

D> Characters to be Inserted

1. ASCII Table
(Appendix B)

2. Complete



%5 3 0 +

Appendix A Decimal Value Table

0



1



2



3



4



5



6



7



8



9



Appendix B ASCII Table

NULL



00

ETX



03

ACK



C6

HT



09

FF



0C

SI



0F

DC2



12

NAK



15

CAN



18

ESC



1B

RS



1E

STX



02

ENQ



05

BS



08

VT



0B

SO



0E

DC1



11

DC4



14

ETB



17

SUB



1A

GS



1D

SOH



01

EOT



04

BEL



07

LF



0A

CR



0D

DLE



10

DC3



13

SYN



16

EM



19

FS



1C

US



1F

@



40

C



43

F



46

I



49

L



4C

O



4F

R



52

U



55

X



58

[



5B

^



5E

B



42

E



45

H



48

K



4B

N



4E

Q



51

T



54

W



57

Z



5A

]



5D

A



41

D



44

G



47

J



4A

M



4D

P



50

S



53

V



56

Y



59

\



5C

_



5F



60

c



63

f



66

i



69

l



6C

o



6F

r



72

u



75

x



78

{



7B



7E



62



65



68



6B



6E



71



74



77



7A



7D

a



61

d



64

g



67

j



6A

m



6D

p



70

s



73

v



76

y



79

|



7C

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

ESC



D6

BS



D7

Tab



D8

Shift



D9

Ctrl



DA

Alt



DB

All the above programming materials are subject to change without prior notice.

Save Parameters



%\$+/0

Recall Stored
Parameters



%\$+/1

Set All Defaults



%\$+/2

Start Configuration



%\$+/3

End Configuration



%\$+/4

Abort Configuration



%\$+/6

Version Information



%\$+/5

FCC CE

