

BAR CODE

SYMBOLGY PROGRAMMING
for POCKET SCANNERS

PROGRAMMING MENU



Programming Menu

V4.2

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.

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 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.

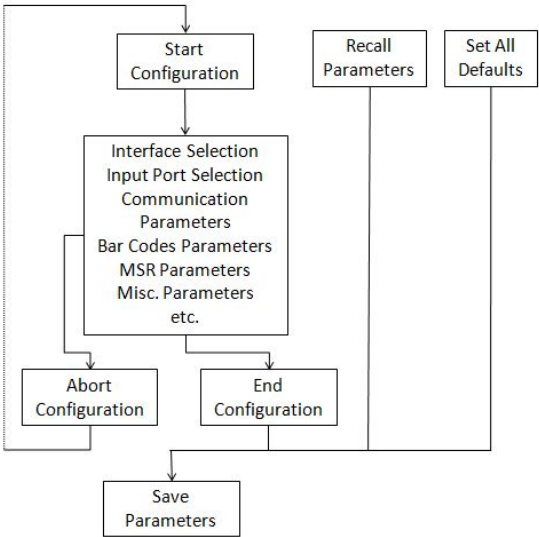
1.2 Introduction

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.

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



Recall Stored Parameters



Set All Defaults



Start Configuration



End Configuration



Abort Configuration



Version Information



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 Communication Parameters

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

Ch. 4 Barcodes & Others

4.1 Symbology Selection

UPC-A <ON>



%0A44

OFF



%0A40

UPC-E <ON>



%0B08

OFF



%0B00

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



%0A22

OFF



%0A20

EAN-8/JAN-8 <ON>



%0A11

OFF



%0A10

CODE 39 <ON>



%0E08

OFF



%0E00

CODE 128 <ON>



%0F08

OFF



%0F00

Codabar/NW7 <ON>



%0J08

OFF



%0J00

Interleaved 25 <ON>



%0GO8

OFF



%0GO0

Industrial 25 ON



%0HO8

<OFF>



%0HO0

Matrix 25 ON



%0IO8

<OFF>



%0IO0

CODE 93 ON



%0KO8

<OFF>



%0KO0

CODE 11 ON



%0LO8

<OFF>



%0LO0

China Post ON



%CMO8

<OFF>



%0MO0

MSI/Plessey ON



%CNO8

<OFF>



%0NO0

Code 2 of 6 ON



%0P08

<OFF>



%0P00

LCD 25 ON



%0Q08

<OFF>



%0Q00

Telepen ON



%0T08

<OFF>



%0T00

Reserved5 ON



%0R08

<OFF>



%0R00

Reserved6 ON



%0S08

<OFF>



%0S00

GS1 Databar-Omnidirectional ON



%0U08

<OFF>



%0U00

GS1 Databar-Limited ON



%0V08

<OFF>



%0V00

GS1 Databar-Expanded ON



%0W08

<OFF>



%0W00

Select All Barcodes



%1 A/+

4.2 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>



%0X40

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>



%0A12

OFF



%0A10

UPC-E Check Digit Transmission <ON>



%0B12

OFF



%0B10

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

4.3 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+

4.4 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>



%0G88

Odd



%0G80

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



%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



%4G02

Minimum Length

1. Begin



%2+- /

2. Decimal Value
(Appendix A)

3. Complete



%2C2 +

4.5 Industrial 25 Parameters

A> Reading Type

IATA25 Enable



%0H44

IATA25 <Disable>



%0H40

B> Check Digit Transmission

<Do Not Calculate
Check Digit>



%0HN3

Calculate Check Digit
& Transmit



%0HN7

Calculate Check Digit
& Not Transmit



%0HN5

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>



%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



%4 H00

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 +

4.6 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> 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>



Fix Length (2 Sets Available)

1. 1st Set Begin



2. Decimal Value
(Appendix A)

3. 1st Set Complete



1. 2nd Set Begin



2. Decimal Value
(Appendix A)

3. 2nd Set Complete



Minimum Length

1. Begin



2. Decimal Value
(Appendix A)

3. Complete



4.7 Codabar/NW7 Parameters

A> Setup Start/Stop Characters Upon Transmission

ON



B> Check Digit Transmission

<Do Not Calculate Check Digit & Transmit>



Calculate Check Digit & Transmit



Calculate Check Digit & Not Transmit



C> Transmission Type of Start/Stop

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



%04 V F

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



%04 FF

A Start



%04 V 1

A Stop



%04 F 1

B Start



%04 V 2

B Stop



%04 F 2

C Start



%04 V 4

C Stop



%04 F 4

D Start



%04 V 8

D Stop



%04 F 8

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



%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+

4.8 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 +

4.9 Code 11 Parameters

A> Check Digit Transmission

<Do Not Calculate
Check Digit>



%0LN3

Calculate 1 Check
Digit & Transmit



%0LN7

Calculate 1 Check Digit
& Not Transmit



%0LN5

Calculate 2 Check
Digits & Transmit



%0LN6

Calculate 2 Check Digits
& Not Transmit



%0LN4

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>



%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 +

4.10 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 N0 2

Minimum Length

1. Begin



%2 +- /

2. Decimal Value

(Appendix A)

3. Complete



%2 C9 +

4.11 Code 2 of 6 Parameters

A> Check Digit Transmission

<Do Not Calculate
Check Digit>



%0PN3

Calculate Check
Digit & Transmit



%0PN7

Calculate Check Digit
& Not Transmit



%0PN5

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 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 C B +

4.12 LCD 25 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 "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 Q 1 +

Fix Length (2 Sets Available)

1. 1st Set Begin



%4 Q 00

2. Decimal Value
(Appendix A)

3. 1st Set Complete



%4 Q 01

1. 2st Set Begin



%4 Q 00

2. Decimal Value
(Appendix A)

2. 2nt Set Complete



%4 Q 02

Minimum Length

1. Begin



%2 +- /

2. Decimal Value
(Appendix A)

3. Complete



%2 C C +

4.13 Telepen Parameters

A> Type of Code

<Full ASCII Mode>



%0T80

Compressed Numeric Mode



%0T88

B> Check Digit Transmission

Do Not Calculate

Check Digit



%0TN3

Calculate Check Digit & Transmit



%0TN7

<Calculate Check Digit & Not Transmit>



%0TN5

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>



%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+

4.14 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 Reading Level

Bar Equals High



%03I2

<Bar Equals Low>



%03I0

6.2 Accuracy

<1 Time>



%0130

2 Times



%0131

3 Times



%0132

4 Times



%0133

6.3 Buzzer Beep Tone

<High>



%01J3

Medium



%01J2

Low



%01J1

Off



%01J0

Appendix A Decimal Value Table

0



1



2



3



4



5



6



7



8



9



SPACE



20

#



23

&



26



29

,



2C



2F

2



32

5



35

8



38

.



3B

>



3E

“



22

%



25

(



28

+



2B

.



2E

1



31

4



34

7



37

.



3A

=



3D

!



21

\$



24

,



27

*



2A

-



2D

0



30

3



33

6



36

9



39

<



3C

?



3F

@



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

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5C

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5F



60

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63

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66

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69

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6C

o



6F

r



72

u



75

x



78

{



7B

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7E

b



62

e



65

h



68

k



6B

n



6E

q



71

t



74

w



77

z



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

Appendix D Numeric Keypad Table

0		1	
2		3	
4		5	
6		7	
8		9	
Enter			

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

Ver 4.2

