

CCDバーコードリーダー

BC-CPシリーズ

ユーザーズ・マニュアル

Programming Menu

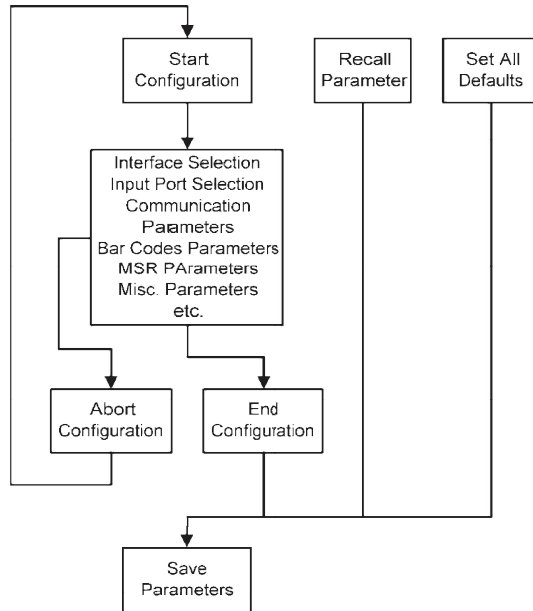
英語版V1.01

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Chapter 1 Configuration - General

1.1 Flow Chart



1.2 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.

1.3 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.

1.4 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 2 Interface and Reading Mode Selection

2.1 Interface Selection

USB Mode



2.2 Reading Mode Selection

<Good Read OFF>



Trigger ON/OFF



Continuous/Trigger OFF



Testing



Continuous/Auto Power On



Flash



Flash/Auto Power On



Ch.3 Communication Parameters

3.1 Keyboard Wedge Mode Parameters

A > Terminal Type

<IBM PC/AT, PS/2>



IBM PC/XT



IBM PS/2 25, 30



NEC 9800



Apple Desktop Bus(ADB)



IBM 5550



IBM 122 Key (1)



IBM 102 Key



IBM 122 Key (2)



B> Upper/Lower Case

<No Change>



Upper Case



Lower Case



C> Caps Lock Detection

Enable



<Disable>



D> Send Character by ALT Method

Enable



<Disable>



E> Select Numerical Pad

ON



<OFF>



3.2 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

3.3 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>



%0208

Output as Code 39
Full ASCII



%0200

Output as Original
Code Format



%0XK4

Ch.4 Bar Codes & Others

4.1 Symbolologies Selection

UPC-A <ON>



OFF



UPC-E <ON>



OFF



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



OFF



EAN-8/JAN-8 <ON>



OFF



CODE 39 <ON>



OFF



CODE 128 <ON>



OFF



CODABAR/NW7 <ON>



OFF



Interleave 25 <ON>



OFF



Industrial 25 ON



<OFF>



Matrix 25 ON



<OFF>



CODE 93 ON



<OFF>



CODE 11 ON



<OFF>



China Postage ON



<OFF>



MSI/PLESSEY ON



<OFF>



GS1 DataBar Omnidirectional ON



<OFF>



GS1 DataBar Limited ON



<OFF>



GS1 DataBar Expanded ON



<OFF>



Select All Bar Codes



4.2 UPC/EAN/JAN Parameters

A Reading Type

UPCA=EAN13 ON



%0AK4

ISBN-1C 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
Supplement>



%0108

Expand UPC-E
<Disable>



%0BH0

EAN8=EAN13
<Disable>



%0AO0

GTIN Format
<Disable>



%0X40

B> Supplemental Set Up

<Not Transmit>



%0B33

Transmit 5 Code



%0B32

Transmit 2 Code



%0B31

Transmit 2&5 Code



%0B30

C> Check Digit Transmission

UPC-A Check Digit
Transmission <ON>



%0A12

UPC-E Check Digit
Transmission <ON>



%0B12

EAN-8 Check Digit
Transmission <ON>



%0A88

EAN-13 Check Digit
Transmission <ON>



%0AH1

ISSN Check Digit
Transmission <ON>



%0BK4

OFF



%0A10

OFF



%0B10

OFF



%0A80

OFF



%0AH0

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> 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)



%4E01

3. 1st Set Complete

1. 2nd Set Begin



%4E00

2. Decimal Value
(Appendix A)



%4E02

3. 2nd Set Complete

Minimum Length

1. Begin



%2+- /

2. Decimal Value
(Appendix A)



%2C0+

4.4 Code 128 Parameters

A> Reading Type

UCC/EA1-128

Enable



%0F44

<UCC/EA1-128
Disable>



%0F40

<Enable'JC1'Code
Format>



%0F22

Disable'JC1'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+

4.5 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



%4G02

Minimum Length

1. Begin



%2+- /

2. Decimal Value
(Appendix A)

3. Complete



%2C2+

4.6 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>



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 Matrix 25 Parameters

A> Check Digit Transmission

<Do Not Calculate
Check Digit>



Calculate Check Digit
& Transmit



Calculate Check Digit
& Not Transmit



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>



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



4.8 CODABAR/NW7 Parameters

A> Set Up Start/Stop Characters Upon Transmission

ON



%C J H1

<OFF>



%O J H0

B> Transmission Type of Start/Stop

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



%O4 V F

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



%O4 F F

A Start



%O4 V 1

A Stop



%O4 F 1

B Start



%O4 V 2

B Stop



%O4 F 2

C Start



%O4 V 4

C Stop



%O4 F 4

D Start



%O4 V 8

D Stop



%O4 F 8

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>



%4 J 1+

Fix Length (2 Sets Available)

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



%4 J 00

3. 1st Set Complete



%4 J 01

1. 2nd Set Begin



%4 J 00

2. Decimal Value (Appendix A)

3. 2nd Set Complete



%4 J 02

Minimum Length

1. Begin
2. Decimal Value (Appendix A)



%2 +- /

3. Complete



%2 C 5+

4.9 Code 93 Parameters

A> Check Digit Transmission

<Calculate Check 2 Digits & Not Transmit>



%O K N 4

Do Not Calculate Check Digit



%O K N 3

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>



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



4.10 Code 11 Parameters

A> Check Digit Transmission

**<Do Not Calculate
Check Digit>**



Calculate Check 1
Digit & Transmit



Calculate Check 2 Digits
& Not Transmit



Calculate Check 2
Digits & Transmit



Calculate Check 2 Digits
& Not Transmit



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>



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



4.11 MSI/PLESSEY Code Parameters

A> Check Digit Transmission

Do Not Calculate
Check Digit



Calculate Check Digit
& Transmit



<Calculate Check Digit
& Not Transmit>



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>



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



4.12 GS1 Databar

A> GS1 DataBar Omnidirectional

<Transmit Check Digit>



Don't Transmit
Check Digit



<Transmit
Application ID>



Don't Transmit
Application ID



Transmit Symbology ID



<Don't Transmit
Symbology ID>



B> GS1 DataBar Limited Parameters

<Transmit Check Digit>



Don't Transmit
Check Digit



<Transmit Application ID>



%0V88

Don't Transmit
Application ID



%0V80

Transmit Symbology ID



%0V44

<Don't Transmit
Symbology ID>



%0V40

C> GS1 DataBar Expanded Parameters

Transmit Symbology ID



%0W44

<Don't Transmit
Symbology ID>



%0W40

Ch.5 Miscellaneous Parameters

5.1 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

5.2 Bar Code ID

ON



Default



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	U
GS1 DataBar Limited	V	Omnidirectional	
		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



UPC-E



EAN-13/JAN-13



EAN-8/JAN-8



CODE 39



CODE 128



CODABAR/NW7



Interleave 25



Industrial 25



Matrix 25



CODE 93



CODE 11



ChinaPostage



MSI/PLESSEY



Code 2 of 6



Telepen



LCD25



GS1 DataBar Omnidirectional ON



GS1 DataBar Limited ON



GS1 DataBar Expanded ON



Reserved5



Reserved6



5.3 Reading Level

Bar Equals High



<Bar Equals Low>



5.4 Accuracy

<1 Time>



2 Times (V-1040/LG700)



3 Times



4 Times



5.5 Buzzer Beep Tone

<High>



Medium



Low



Off



5.6 Sensitivity of Continuous Reading Mode

A> Quick Setting:

<Fast>



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 in 100ms 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 from 1-50. One step is represented 0.1 second. 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)



%3001

3. Complete



5.7 Reverse Output Characters

<Disable>



%03H0

Enable



%03H1

5.8 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> Symbolologies Selection

UPC-A



%8 1 A+

UPC-E



%8 1 B+

EAN-13/JAN-13/ISBN-13



%8 1 Y+

EAN-8/JAN-8



%8 1 Z+

CODE 39



%8 1 E+

CODE 128



%8 1 F+

CODABAR/N97



%8 1 J+

Interleave 25



%8 1 G+

Industrial 25



%8 1 H+

Matrix 25



%8 1 I+

CODE 93



%8 1 K+

CODE 11



%8 1 L+

China Postage



%8 1 M+

MSI/PLESSEY



%8 1 N+

Code 2 of 6



% 81 P+

Telepen



%81 T+

GS1 DataBar Omnidirectional



%81 U+

GS1 DataBar Expanded



% 81 W+

None



% 814+

LCD25



%81 Q+

GS1 DataBar Limited



%8 1 V+

All Codes



%8 1 S+

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+

5.9 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



%5 00+

2. 2nd Set



%5 01+

3. 3rd Set



%5 02+

4. 4th Set



%5 03+

5. 5th Set



%5 04+

6. 6th Set



%5 05+

B> Symbolologies 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+

Telepen



%51T+

GS1 DataBar
Omnidirectional



%51U+

GS1 DataBar
Expanded



%51W+

None



%514+

Code 2 of 6



%51P+

LCD255



%51Q+

GS1 DataBar
Limited



%51V+

All Codes



%51S+

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+

Appendix A Decimal Value Table

0



1



2



3



4



5



6



7



8



9



Appendix B ASCII Table

NULL  00	STX  02	SOH  01
ETX  03	ENQ  05	EOT  04
ACK  06	BS  08	BEL  07
HT  09	VT  0B	LF  0A
FF  0C	SO  0E	CR  0D
SI  0F	DC1  11	DLE  10
DC2  12	DC4  14	DC3  13
NAK  15	ETB  17	SYN  16
CAN  18	SUB  1A	EM  19
ESC  1B	GS  1D	FS  1C
RS  1E		US  1F

SPACE  20	"  22	!  21
#  23	%  25	\$  24
&  26	( 28	'  27
)  29	+  2B	*  2A
,  2C	=  2E	-  2D
/  2F	1  31	0  30
2  32	4  34	3  33
5  35	7  37	6  36
8  38	:  3A	9  39
;  3B	=  3D	<  3C
>  3E		?  3F

@  40	B  42	A  41
C  43	E  45	D  44
F  46	H  48	G  47
I  49	K  4B	J  4A
L  4C	N  4E	M  4D
O  4F	Q  51	P  50
R  52	T  54	S  53
U  55	W  57	V  56
X  58	Z  5A	Y  59
[ 5B	]  5D	\  5C
^  5E		_  5F



Notice

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