

**CD-3870**  
**Barcode Scanner**  
**User's Manual**

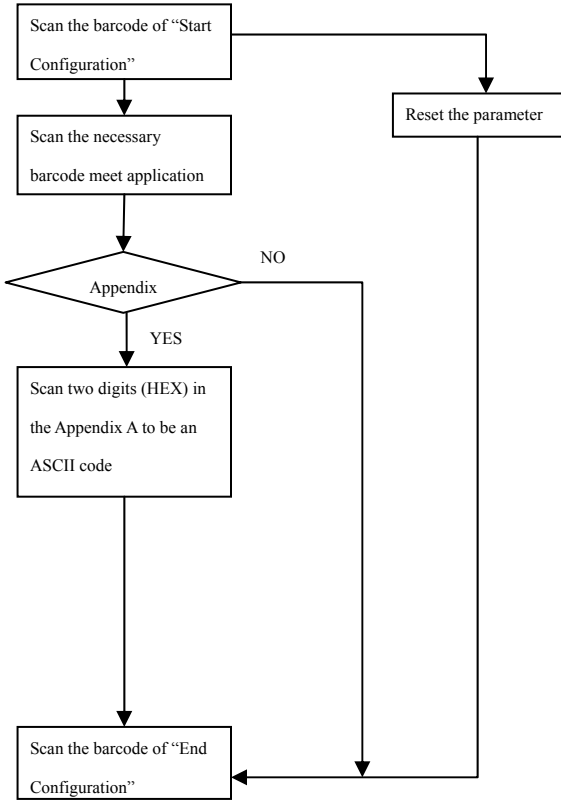


# Contents

<b>Flow Chart of the Barcode Scanner Installation ...</b>	<b>1</b>
<b>1 Systems Information .....</b>	<b>3</b>
1.1 Default.....	3
1.2 Version Information.....	3
<b>2 Systems Setting .....</b>	<b>5</b>
2.1 Interfaces.....	5
2.1.1 Keyboard Wedge Setting.....	6
2.1.2 RS-232 Communication Parameters .....	9
2.2 Scan Modes .....	12
2.3 Beep Setting.....	15
2.4 Character Installation .....	16
2.5 Others Settings .....	18
<b>3 Code ID Setup.....</b>	<b>19</b>
3.1 UPC-A.....	19
3.2 UPC-E .....	21
3.3 EAN-13 .....	23
3.4 EAN-8 .....	25
3.5 Code 39 .....	27
3.6 Codabar .....	29
3.7 Code 93 .....	31
3.8 Code 128/EAN-128.....	33
3.9 Interleaved 2 of 5 .....	35
3.10 Industrial 2 of 5 .....	37
3.11 Matrix 2 of 5.....	39
3.12 China Post Code.....	41

3.13 MSI/Plessey .....	43
3.14 Code 32.....	45
3.15 Code 11 .....	46
3.16 RSS Code (Optional) .....	48
<b>Appendix A ASCII Code .....</b>	<b>49</b>
<b>Appendix B Function Key Code .....</b>	<b>51</b>

## Flow Chart of the Barcode Scanner Installation



### Remark:

- ◆ Scan "Software Version" to get the software version number.
- ◆ Scan "Serial Number" to get the serial number.




# 1 Systems Information


## 1.1 Default



Start Configuration

Set All Default
 ((+M%4D))

## 1.2 Version Information

Version
 ((+M%4V))



End Configuration





## 2 Systems Setting



Start Configuration

### 2.1 Interfaces

Interface Selection
<b>(Keyboard) ((A1A))</b>
RS-232 ((A1B))
USB HID keyboard ((A1C))
USB Virtual COM ((A1D))



End configuration

## 2.1.1 Keyboard Wedge Setting



Start Configuration

### Languages



(US) ((B2A))



Italian ((B2B))



Spanish ((B2C))



French ((B2D))



Germany ((B2E))



Japan ((B2F))



Portugal ((B2G))



Hungary ((B2H))






Swedish ((B2I))







End Configuration



Start Configuration

Languages	
	Norwegian ((B2J))
	Denmark ((B2K))
	Netherlands ((B2L))
	Turkey ((B2M))
	UK ((B2N))
	Belgium ((B2O))
	Česko((B2P))












Function Key Emulation	
	
(OFF) ((B3A))	ON ((B3B))
Keyboard Emulation	
	
(OFF) ((B4A))	ON ((B4B))



End Configuration



Start Configuration

ALT Mode	
 <b>(OFF) ((BCB))</b>	 <b>ON ((BCA))</b>
Keyboard Terminator	
 <b>None ((B9A))</b>	
 <b>(CR) ((B9B))</b>	
 <b>Tab ((B9C))</b>	
 <b>ESC ((B9D))</b>	
Caps Lock	
 <b>(OFF) ((B5A))</b>	 <b>ON ((B5B))</b>
Num Lock	
 <b>(OFF) ((B6A))</b>	 <b>ON ((B6B))</b>
Inter-Character Delay	
 <b>00H (00-64H*1 (ms)) ((B7A))</b>	










End Configuration



Start Configuration

### 2.1.2 RS-232 Communication Parameters













Baud Rate
 2400 ((C8B))
 4800 ((C8C))
 <b>(9600) ((C8D))</b>
 19200 ((C8E))
 38400 ((C8F))
 57600 ((C8G))
 115200 ((C8H))



End Configuration



Start Configuration

Data Bits	
 7 ((C7B))	 (8) ((C7A))
Data Stop	
 (1) ((C6A))	 2 ((C6B))
Parity	
 (None) ((C5A))	 Even ((C5B))
 Odd ((C5C))	
Inter-Character Delay	
 (00-64H*1(ms)) ((C2A))	
Handshaking	
 (None) ((C1A))	 RTS/CTS ((C1B))
 ACK/NAK ((C1C))	 Xon/Xoff ((C1D))



End Configuration



Start Configuration

Character Parameter
 None ((C9A))
 <b>(CR+LF) ((C9B))</b>
 CR ((C9C))
 LF ((C9D))
 Tab ((C9E))
 STX/ETX ((C9F))
 EOT ((C9G))



End Configuration

## **2.2 Scan Modes**

### Trigger Mode

Press the trigger and start to scan. The scan will be ended once you loose the trigger or decode the barcode. Repeat the action to start the next decodes.

### Auto Power OFF Mode

Press the trigger and start to scan. The scan will be ended once the time is up or decode the barcode.

### Continuous/Trigger OFF Mode

Press the trigger and start the continuous scan. In this mode, you can scan different barcode continuously and you just scan the same barcode for one time. When removing the light, you can re-scan the same barcode; when pressing the trigger again, you can end the Continued Power On Mode.

### Test Mode

Press the trigger and start to test. Scan the barcode continuously and press the trigger to end the test.

### Continuous/LED ON Mode

Press the trigger and start the continuous scan. The light is always on and you can press the trigger to read it. This mode will be ended when you choose the other scan mode.

### Continuous/Timeout OFF Mode

The scanning method is the same as the Continuous/Trigger OFF mode but you have to scan it within the compulsory time; otherwise the mode will be ended. You can press the trigger to start the next scan.



## Timeout Setup

1. Scan the “Continuous/Timeout OFF Mode” barcode.
2. Scan 2 digits of the ASCII code of the Appendix A.
3. Scan the “End” barcode of the Appendix A.
4. Scan the End Configuration to end the procedure.
5. The settings unit is a second one; for example, 0\*40 stands for 1 minute.  
The Timeout Default is 0\*B4, about 3 minutes.



Start Configuration

Scan Mode



Trigger On/Off ((E1A))



**(Trigger On/Good Read Off) ((E1B))**



Continuous/Trigger Off ((E1C))



Testing ((E1D))



Continuous/LED Always On ((E1E))



Continuous/Timeout Off ((E1F))



Flash On ((E1G))



Continuous/No Trigger ((E1H))



Auto Scan ((+E1J))



End Configuration



Start Configuration

### 2.3 Beep Setting

Buzzer Frequency	
<b>09H(00-10H) ((E2A))</b>	
Buzzer Beep Tone	
<b>04H(00-10H) ((E3A))</b>	
Power Up Tone	
<b>(ON) ((EBA))</b>	<b>OFF ((EBB))</b>
Good Read Beep	
<b>(ON) ((ECA))</b>	<b>OFF ((ECB))</b>



End Configuration

## 2.4 Character Installation

The first and last characters:

You can put 10 ASCII at most in front of the barcode data. When the installation “0”, it means that you don’t need to add the first and last characters. Please find the format as below:

The First Character	Barcode	The Last Character
---------------------	---------	--------------------

The process for adding the first and last characters to the barcode:

1. Scan the barcode of “Start Configuration” and “The First Character Installation”.
2. Check the ASCII table to get the ASCII code of the first and last characters.
3. Scan the ASCII barcode in the Appendix.
4. Scan the “End Configuration” barcode.

G1/G2 character Insertion:

You can put 10 ASCII at most in front of the barcode data. When the installation is “0”, it means that you don’t need to add the first and last characters.

1. Scan the “Start Configuration” and “G1 Insert Character” barcodes.
2. Check the ASCII table to get the ASCII code of the first and last characters.
3. Scan the ASCII barcode in the Appendix.
4. Scan the “End Configuration” barcode.
5. Repeat the same process to the G2 insertion.
6. Scan the “End Configuration” barcode.

The position of G1/G2 character insertion:

Select a character insert to the barcode. You can’t insert any character while the installation is “0”.

Scan the “Start Configuration” and “G1 character insertion position” the barcodes.

1. Check the ASCII table to get the corresponding ASCII code of the insertion position.
2. Scan the “End Configuration” barcode.

3. Repeat the same process to the G2 character insertion position.
4. Scan the “End Configuration” barcode.

Code Transmission:

If your application needs to transmit the code (barcode type ID), you have to set “ON” for this feature and the format is ID + Barcode data.



Start Configuration

Preamble Setting	
<b>(00)((E4A))</b>	
Postamble Setting	
<b>(00)((E5A))</b>	
Character Insertion	
<b>G1(00) ((E6A))</b>	<b>G2(00) ((E7A))</b>
Character Insertion Position	
<b>G1(00) ((E8A))</b>	<b>G2(00) ((E9A))</b>
Code ID Transmission	
<b>ON ((EAA))</b>	<b>(OFF) ((EAB))</b>

## 2.5 Others Settings

Scanning Verification	
<b>(Single) ((EDA))</b>	<b>Double ((EDB))</b>
Bar Space Setting	
<b>(Bar High) ((EEA))</b>	<b>Bar Low ((EEB))</b>



End Configuration



Start Configuration

### 3 Code ID Setup

#### 3.1 UPC-A

Reading	
OFF ((F1A))	<b>(ON) ((F1B))</b>
Code ID	
<b>46H (20-7EH) ((F2A))</b>	
UPC-A Convertor to EAN-13	
<b>(OFF) ((F3A))</b>	ON ((F3A))
Check Char. Transmission	
OFF ((F4A))	<b>(ON) ((F4B))</b>
Leading Zero Truncation	
<b>(OFF)(F5A))</b>	ON((F5B))



End Configuration



Start Configuration

UPC-A

Leading Digit	
<b>00H</b> (00-0DH) ((F6A))	
Last Digit Truncation	
<b>00H</b> (00-0DH) ((F7A))	
Insertion Code Selection	
<b>00H</b> (00-02H) ((F9A))	
Add-on 2/5	
<b>(None)</b> ((F8A))	2 ((F8B))
5 ((F8C))	2/5 ((F8D))
Auto ((F8E))	



End Configuration





Start Configuration

### 3.2 UPC-E

Reading	
OFF ((G1A))	(ON) ((G1B))
Code ID	
47H (20-7EH) ((G2A))	
UPC-E Convertor to UPC-A	
(OFF) ((G3A))	ON ((G3B))
Check Char. Transmission	
OFF ((G4A))	(ON) ((G4B))
Leading Zero Truncation	
(OFF) ((G7A))	ON ((G7B))



End Configuration



Start Configuration

UPC-E

<b>Leading Digit Truncation</b>	
<b>00H (00-08H) ((G5A))</b>	
<b>Last Digit Truncation</b>	
<b>00H (00-08H) ((G6A))</b>	
<b>Insertion Code Selection</b>	
<b>00H (00-02H) ((G9A))</b>	
<b>Add-on 2/5</b>	
<b>(None) ((G8A))</b>	<b>2 ((G8B))</b>
<b>5 ((G8C))</b>	<b>2/5 ((G8D))</b>
<b>Auto ((G8E))</b>	



End Configuration



Start Configuration

### 3.3 EAN-13

Reading	
OFF ((H1A))	(ON) ((H1B))
Code ID	
48H (20-7EH) ((H2A))	
Check Char. Transmission	
OFF ((H3A))	(ON) ((H3B))
Leading Digit Truncation	
00H (00-0DH) ((H4A))	
Last Digit Truncation	
00H (00-0DH) ((H5A))	
Insertion Code Selection	
00H (00-02H) ((H8A))	










End Configuration



Start Configuration

EAN-13

Add-on 2/5	
 <b>(None) ((H6A))</b>	 2 <b>((H6B))</b>
 5 <b>((H6C))</b>	 2/5 <b>((H6D))</b>
 Auto <b>((H6E))</b>	
ISBN/ISSN Conversion	
 <b>(OFF) ((H7A))</b>	 ON <b>((H7B))</b>



End Configuration



Start Configuration

### 3.4 EAN-8

Reading	
OFF ((I1A))	(ON) ((I1B))
Code ID	
49H (20-7EH) ((I2A))	
Check Char. Transmission	
OFF ((I3A))	(ON) ((I3B))
Leading Digit Truncation	
00H (00-08H) ((I4A))	
Last Digit Truncation	
00H (00-08H) ((I5A))	
Insertion Code Selection	
00H (00-02H) ((I7A))	



End Configuration



Start Configuration

EAN-8

Add-on 2/5	
 <b>(None) ((I6A))</b>	 2 ((I6B))
 5 ((I6C))	 2/5 ((I6D))
 Auto ((I6E))	



End Configuration



Start Configuration

### 3.5 Code 39

Reading	
OFF ((J1A))	<b>(ON) ((J1B))</b>
Code ID	
4AH (20-7EH) ((J2A))	
Checksum Verification	
<b>(OFF) ((J3A))</b>	ON ((J3B))
Check Char. Transmission	
OFF ((J4A))	<b>(ON) ((J4B))</b>
Format	
<b>(Standard) ((J9A))</b>	Full ASCII ((J9B))
Start/End Char. Transmission	
<b>(OFF) ((JDA))</b>	ON ((JDB))










End Configuration



Start Configuration

Code 39

Min. Length	
	
<b>00H</b> (01-50H) ((J6A))	
Max. Length	
	
<b>50H</b> (01-50H) ((J7A))	
<b>Code 39 Concatenation</b>	
	
<b>ON</b> ((JFB))	<b>(OFF)</b> ((JFA))
Leading Digit Truncation	
	
<b>00H</b> (00-50H) ((JAA))	
Last Digit Truncation	
	
<b>00H</b> (00-50H) ((JBA))	
Insertion Code Selection	
	
<b>00H</b> (00-02H) ((JCA))	



End Configuration





Start Configuration

### 3.6 Codabar






Reading	
OFF ((K1A))	(ON) ((K1B))
Code ID	
4BH (20-7EH) ((K2A))	
Checksum Verification	
OFF ((K3A))	(ON) ((K3B))
Check Character Transmission	
(OFF) ((K4A))	ON ((K4B))
Start/End Character Transmission	
(ABCD/ABCD) ((K8A))	abcd/abcd ((K8B))
abcd/tn*e ((K8C))	
Start/End Character Transmission	
OFF ((K9A))	(ON) ((K9B))



End Configuration



Start Configuration  
Codabar

Leading Digit Truncation
 <b>00H</b> (01-50H) ((K6A))
Last Digit Truncation
 <b>00H</b> (01-50H) ((K7A))
Insertion Code Selection
 <b>00H</b> (00-02H) ((KCA))
Min. Length
 <b>06H</b> (01-50H) ((KAA))
Max. Length
 <b>50H</b> (01-50H) ((KBA))



End Configuration



Start Configuration

### 3.7 Code 93

Reading	
OFF ((L1A))	(ON) ((L1B))
Code ID	
4CH (20-7EH) ((L2A))	
Checksum Verification	
OFF ((L3A))	(ON) ((L3B))
Check Character Transmission	
(OFF) ((L4A))	ON ((L4B))
Min. Length	
03H (06-50H) ((L5A))	
Max. Length	
50H (06-50H) ((L6A))	






End Configuration



Start Configuration

Code 93

Leading Digit Truncation
 <b>00H (00-50H) ((L7A))</b>
Last Digit Truncation
 <b>00H (00-50H) ((L8A))</b>
Insertion Code Selection
 <b>00H (00-02H) ((L9A))</b>












End Configuration



Start Configuration

### 3.8 Code 128/EAN-128

Reading	
	
OFF ((M1A))	(ON) ((M1B))
Code ID	
	
<b>4DH</b> (20-7EH) ((M2A))	
Checksum Verification	
	
OFF ((M3A))	(ON) ((M3B))
Check Character Transmission	
	
(OFF) ((M4A))	ON ((M4B))
Min. Length	
	
<b>03H</b> (01-50H) ((MAA))	
Max. Length	
	
<b>50H</b> (01-50H) ((MBA))	



End Configuration



Start Configuration

Code 128

FNC2 Concatenation	
(OFF) ((M5A))	ON ((M5B))
UCC/EAN128	
(OFF) ((M6A))	ON ((M6B))
FNC1 Transmission	
(OFF) ((M7A))	ON ((M7B))
Leading Digit Truncation	
00H (00-50H) ((M8A))	
Last Digit Truncation	
00H (00-50H) ((M9A))	
Insertion Code Selection	
00H (00-02H) ((MCA))	



End Configuration



Start Configuration

### 3.9 Interleaved 2 of 5

Reading	
OFF ((N1A))	(ON) ((N1B))
Code ID	
4EH (20-7EH) ((N2A))	
Checksum Verification	
(OFF) ((N3A))	ON ((N3B))
Check Character Transmission	
OFF ((N4A))	(ON) ((N4B))
Min. Length	
06H (00-50H) ((N7A))	
Max. Length	
50H (00-50H) ((N8A))	






End Configuration



Start Configuration

Interleaved 2/5

Leading Digit Truncation
 <b>00H</b> (00-50H) ((N5A))
Last Digit Truncation
 <b>00H</b> (00-50H) ((N6A))
Insertion Code Selection
 <b>00H</b> (00-02H) ((N9A))












End Configuration





Start Configuration

### 3.10 Industrial 2 of 5

Reading	
 <b>(OFF) ((O1A))</b>	 <b>ON ((O1B))</b>
Code ID	
 <b>4FH (20-7EH) ((O2A))</b>	
Checksum Verification	
 <b>(OFF) ((O7A))</b>	 <b>ON ((O7B))</b>
Check Character Transmission	
 <b>(OFF) ((O8A))</b>	 <b>ON ((O8B))</b>
Min. Length	
 <b>06H (00-50H) ((O3A))</b>	
Max. Length	
 <b>50H (00-50H) ((O4A))</b>	






End Configuration



Start Configuration

Industrial 2 of 5

Leading Digit
 <b>00H</b> (00-50H) ((O5A))
Last Digit Truncation
 <b>00H</b> (00-50H) ((O6A))
Insertion Code Selection
 <b>00H</b> (00-02H) ((O9A))












End Configuration



Start Configuration

### 3.11 Matrix 2 of 5

Reading	
 <b>(OFF) ((P1A))</b>	 <b>ON ((P1B))</b>
Code ID	
 <b>50H (20-7EH) ((P2A))</b>	
Checksum Verification	
 <b>(OFF) ((P3A))</b>	 <b>ON ((P3B))</b>
Check Character Transmission	
 <b>OFF ((P4A))</b>	 <b>(ON) ((P4B))</b>
Min. Length	
 <b>06H (00-50H) ((P7A))</b>	
Max. Length	
 <b>50H (00-50H) ((P8A))</b>	






End Configuration



Start Configuration

Matrix 2of 5

Leading Digit
 <b>0H</b> (00-50H) ((P5A))
Last Digit Truncation
 <b>00H</b> (00-50H) ((P6A))
Insertion Code Selection
 <b>00H</b> (00-02H) ((P9A))



End Configuration



Start Configuration

### 3.12 China Post Code

Reading	
<b>(OFF) ((Q1A))</b>	<b>ON ((Q1B))</b>
Code ID	
<b>51H (20-7EH) ((Q2A))</b>	
Checksum Verification	
<b>(OFF) ((Q3A))</b>	<b>ON ((Q3B))</b>
Check Character Transmission	
<b>(OFF) ((Q4A))</b>	<b>ON ((Q4B))</b>
Min. Length	
<b>06H (00-50H) ((Q7A))</b>	
Max. Length	
<b>50H (00-50H) ((Q8A))</b>	






End Configuration



Start Configuration

China Post Code

Leading Digit Truncation
 <b>00H</b> (00-50H) ((Q5A))
Last Digit Truncation
 <b>00H</b> (00-50H) ((Q6A))
Insertion Code Selection
 <b>00H</b> (00-02H) ((Q9A))



End Configuration



Start Configuration

### 3.13 MSI/Plessey




Reading	
<b>(OFF) ((R1A))</b>	<b>ON ((R1B))</b>
Code ID	
<b>52H (20-7EH) ((R2A))</b>	
Checksum Verification	
<b>(OFF) ((R3A))</b>	<b>MOD 10 ((R3B))</b>
<b>MOD 10/10 ((R3C))</b>	<b>MOD 11/10 ((R3D))</b>
Check Character Transmission	
<b>OFF ((R4A))</b>	<b>(ON) ((R4B))</b>
Min. length	
<b>06H (00-50H) ((R7A))</b>	
Max. Length	
<b>50H (00-50H) ((R8A))</b>	



End Configuration



Start Configuration  
MSI/Plessey

Leading Digit Truncation
 <b>00H</b> (00-50H) ((R5A))
Last Digit Truncation
 <b>00H</b> (00-50H) ((R6A))
Insertion Code Selection
 <b>00H</b> (00-02H) ((R9A))



End Configuration





Start Configuration

### 3.14 Code 32

Reading	
<b>(OFF) ((S1A))</b>	<b>ON ((S1B))</b>
Code ID	
<b>53H (20-7EH) ((S2A))</b>	
Checksum Verification	
<b>OFF ((S3A))</b>	<b>(ON) ((S3B))</b>
Check Character Transmission	
<b>OFF ((S4A))</b>	<b>(ON) ((S4B))</b>
Leading Digit Truncation	
<b>00H (00-0AH) ((S5A))</b>	
Last Digit Truncation	
<b>00H (00-0AH) ((S6A))</b>	
Insertion Code Selection	
<b>00H (00-02H) ((S7A))</b>	



End Configuration



Start Configuration

### 3.15 Code 11

Reading	
<b>(OFF) ((T1A))</b>	<b>ON ((T1B))</b>
Code ID	
<b>54H (20-7EH) ((T2A))</b>	
Checksum Verification	
<b>OFF ((T3A))</b>	<b>(ON) ((T3B))</b>
Check Character Transmission	
<b>(OFF) ((T4A))</b>	<b>ON ((T4B))</b>
Min Length	
<b>06H (00-50H) ((T7A))</b>	
Max. Length	
<b>50H (00-50H) ((T8A))</b>	






End Configuration



Start Configuration

Code 11

Leading Digit Truncation
 <b>00H (00-50H) ((T5A))</b>
Last Digit Truncation
 <b>00H (00-50H) ((T6A))</b>
Insertion Code Selection
 <b>00H (00-02H) ((T9A))</b>



End Configuration



Start Configuration

### 3.16 RSS Code (Optional)

RSS-14	
<b>(OFF) ((U1B))</b>	<b>ON ((U1A))</b>
RSS-14 Limited	
<b>(OFF) ((U2B))</b>	<b>ON ((U2A))</b>
RSS-14 Expanded	
<b>(OFF) ((U3B))</b>	<b>ON ((U3A))</b>
RSS Code to UPC/EAN	
<b>(OFF) ((U4B))</b>	<b>ON ((U4A))</b>



End Configuration

**Appendix A ASCII Code**



0



1



2



3



4



5



6



7



8



9



A



B



C



D



E



F



Y



N



End Configuration

ASCII table





























	0	1	2	3	4	5	6	7
0	NUL	DLE	SP	0	@	P	`	p
1	SOH	DC1	!	1	A	Q	a	q
2	STX	DC2	“	2	B	R	b	r
3	ETX	DC3	#	3	C	S	c	s
4	EOT	DC4	\$	4	D	T	d	t
5	ENQ	NAK	%	5	E	U	e	u
6	ACK	SYN	&	6	F	V	f	v
7	BEL	ETB	‘	7	G	W	G	w
8	BS	CAN	(	8	H	X	h	x
9	HT	EM	)	9	I	Y	i	y
A	LF	SUM	*	:	J	Z	j	z
B	VT	ESC	+	;	K	[	k	{
C	FF	FS	,	<	L	\	l	
D	CR	GS	-	=	M	}	m	}
E	SO	RS	.	>	N	^	n	~
F	SI	US	/	?	O	_	o	DEL

## Appendix B Function Key Code

	0	1
0	NULL	
1	UP	F1
2	DOWN	F2
3	LEFT	F3
4	RIGHT	F4
5	PAGE UP	F5
6	PAGE DOWN	F6
7		F7
8	BS	F8
9	TAB	F9
A		F10
B	HOME	ESC
C	END	F11
D	ENTER	F12
E	INSERT	
F	DELETE	

### Function Key Code:

Before scanning barcode, please turn on Full ASCII CODE 39.

 UP(\$A)		 F1(\$Q)	 F10(\$Z)
 DOWN(\$B)		 F2(\$R)	 ESC(%A)
 LEFT(\$C)	 HOME(\$K)	 F3(\$S)	 F11(%B)
 RIGHT(\$D)	 END(\$L)	 F4(\$T)	 F12(%C)
 PAGE UP(\$E)	 ENTER(\$M)	 F5(\$U)	 F13(%D)
 PAGE DOWN(\$F)	 INSERT(\$N)	 F6(\$V)	 F14(%E)
	 DELETE(\$O)	 F7(\$W)	
 BS(\$H)		 F8(\$X)	
 TAB(\$I)		 F9(\$Y)	