



# ***BARCODE READER***

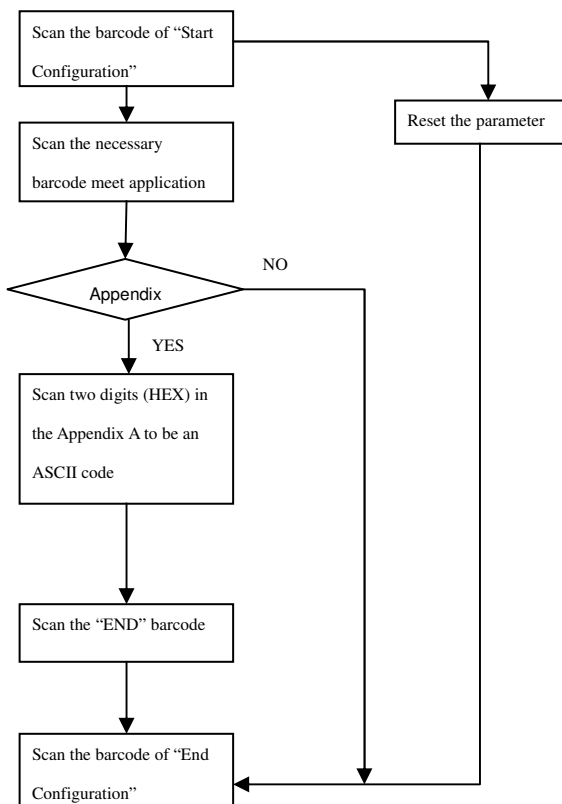
## ***BLASTER LINE***

**USER MANUAL**

V 4.0 EN BLASTER

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## Barcode Scanner Install Flow Chart



### Remark:

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

□: Systems Information

1.1 Default

1.2 Version Information□



Start Configuration



Set All Default



Version






End Configuration



Start Configuration

□: Systems Setting

2.1 Interfaces□

Interface Selection
 <b>(Keyboard)</b>
 RS-232
 USB









End configuration



Start Configuration

### 2.1.1 Keyboard Wedge Setting







Terminals Type
 <b>(IBM AT)</b>
 IBM XT
 IBM PS/2 30-80
 IBM 5550
 PS/2 25□30
 NEC 9801



End Configuration



Start Configuration





Languages
 (US)
 Italian
 Spanish
 French
 Germany
 Japan









End Configuration



Start Configuration

Keyboard Terminator

None

(CR)

Tab

ESC

Function Key Emulation	
	
(OFF)	ON
Keyboard Emulation	
	
(OFF)	ON
ALT mode	
	
(OFF)	ON



End Configuration





Start Configuration

Caps Lock	
(OFF)	ON
Num Lock	
(OFF)	ON
Inter-character delay	
00H□00-64H*1□ms□□	
Inter-Message Delay	
00H□00-0AH*100□ms□□	
Keyboard Speed	
00H□00-08H□	









End Configuration



Start Configuration

### 2.1.2 RS-232 Communication Parameters










Baud Rate
 1200
 2400
 4800
 <b>(9600)</b>
 19200
 38400



End Configuration



Start Configuration

Data Bits	
	
7	(8)
Data Stop	
	
1	2
Parity	
	
(None)	Even
	
Odd	Mark
	
Space	



End Configuration



Start Configuration








Inter-Character Delay	
<input type="checkbox"/> 00-64H*1(ms) <input type="checkbox"/>	
Inter-Message Delay	
<input type="checkbox"/> 00-0AH*100(ms) <input type="checkbox"/>	
Handshaking Delay	
<input type="checkbox"/> 00-0AH*100(ms) <input type="checkbox"/>	
Handshaking	
(None)	RTS/CTS
ACK/NAK	Xon/Xoff



End Configuration



Start Configuration

Character Parameter
 None
 (CR+LF)
 CR
 LF
 Tab
 STX/ETX
 EOT



End Configuration

## 2.2 Scan Mode

### Trigger Mode

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

### Continuous/Trigger OFF Mode

Press the trigger and start the continuous scan. This mode can scan the different barcode continuously and you just scan the same barcode for one time. Remove the light; you can re-scan the same barcode. Press 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 end 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 end. You can press the trigger to start the next scan









## . Timeout Set-Up

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

The Timeout Default is 0\*B4, about 3 minutes



Start Configuration

Scan Mode

Trigger On/Off

<b>(Trigger On/Good read off)</b>

Continuous/Trigger Off

Testing

Continuous/LED always On

Continuous/Timeout Off

Flash On

Continuous/No Trigger



End Configuration





Start Configuration

## 2.3 Beep Setting

Buzzer Frequency	
(00-0A-10H)	
Buzzer Beep Tone	
(00-05-10H)	
Power Up Tone	
(OFF)	ON
Good read Beep	
(OFF)	ON



End Configuration

## 2.4 Character Installation

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

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

The process for adding the first and last character 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 character.
3. Scan the barcode of ASCII in the Appendix.
4. Scan the “End Configuration”.

G1/G2 character Insertion: You can put 10 ASCII at most in front of the barcode data. When the installation is “0” that means you don’t need to add the first and last character.

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

The position of G1/G2 character insertion: To select a character insert to the barcode. You can’t insert any character while the installation is “0”

1. Scan the barcode of the “Start Configuration” and “G1 character insertion position”
2. Check the ASCII table to get the corresponding ASCII code of the insertion position.

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

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	
(00)	
Postamble Setting	
(00)	
Character Insertion	
G1(00)	G2(00)
Character Insertion Position	
G1(00)	G2(00)
Code ID Transmission	
ON	(OFF)









End Configuration



Start Configuration

## 2.5 Others Setting

Verify Scanning	
 <b>(Single)</b>	 Double
Bar Space Setting	
 <b>(Bar High)</b>	 Bar Low
Laser Data Scan Speed Up	
 ON	 OFF










End Configuration



Start Configuration

### 3.1 UPC-A

Reading	
	
OFF	(ON)
Code ID	
	
46H (20-7EH)	
UPC-A Convertor to EAN-13	
	
(OFF)	ON
Transmit Check Char.	
	
OFF	(ON)



End Configuration



Start Configuration

UPC-A

Truncate Leading Zero	
(OFF)	ON
Truncate Leading Digit	
00H (00-0DH)	
Truncate Last Digit	
00H (00-0DH)	
Select Insertion Code	
00H (00-02H)	
Add-on 2/5	
(None)	2
5	2/5












End Configuration



Start Configuration

### 3.2 UPC-E

Reading	
	
OFF	(ON)
Code ID	
	
47H (20-7EH)	
UPC-E Convertor to UPC-A	
	
(OFF)	ON
Transmit Check Char.	
	
OFF	(ON)
Truncate Leading Zero	
	
(OFF)	ON



End Configuration





Start Configuration

UPC-E

Truncate Leading Digit	
00H (00-08H)	
Truncate Last Digit	
00H (00-08H)	
Select Insertion Code	
00H (00-02H)	
Add-on 2/5	
(None)	2
5	2/5



End Configuration



Start Configuration

### 3.3 EAN-13

Reading	
OFF	(ON)
Code ID	
48H (20-7EH)	
Transmit Check Char.	
OFF	(ON)
Truncate Leading Digit	
00H (00-0DH)	
Truncate Last Digit	
00H (00-0DH)	



End Configuration



Start Configuration

EAN-13

Add-on 2/5	
(None)	2
5	2/5
ISBN/ISSN Convert	
(OFF)	ON
Select Insertion Code	
00H (00-02H)	



End Configuration



Start Configuration

### 3.4 EAN-8

Reading	
OFF	(ON)
Code ID	
49H (20-7EH)	
Transmit Check Char.	
OFF	(ON)
Truncate Leading Digit	
00H (00-08H)	



End Configuration



Start Configuration

EAN-8

Truncate Last Digit	
<b>00H (00-08H)</b>	
Add-on 2/5	
<b>(None)</b>	<b>2</b>
<b>5</b>	<b>2/5</b>
Select Insertion Code	
<b>00H (00-02H)</b>	










End Configuration



Start Configuration

### 3.5 Code 39

Reading	
	
OFF	(ON)
Code ID	
	
4AH (20-7EH)	
Verify Checksum	
	
(OFF)	ON
Transmit Check Char.	
	
OFF	(ON)



End Configuration



Start Configuration

Code 39

Min. Length	
00H (00-32H)	
Max. Length	
32H (00-32H)	
Format	
(Standard)	Full ASCII
Transmit Start/End Char.	
(OFF)	ON
Truncate Leading Digit	
00H (00-32H)	
Truncate Last Digit	
00H (00-32H)	
Select Insertion Code	
00H (00-02H)	










End Configuration



Start Configuration

### 3.6 Codabar

Reading	
	
OFF	(ON)
Code ID	
	
4BH (20-7EH)	
Verify Checksum	
	
OFF	(ON)
Transmit Check Character	
	
(OFF)	ON



End Configuration





Start Configuration

Codabar

Truncate Leading Digit	
00H (00-7EH)	
Truncate Last Digit	
00H (00-7EH)	
Transmit Start/End Character	
(ABCD/ABCD)	abcd/abcd
abcd/tn*e	
Transmit Start/End Character	
(OFF)	ON
Min. Length	
00H (00-3CH)	
Max. Length	
3CH (00-3CH)	
Select Insertion Code	
00H (00-02H)	








End Configuration



Start Configuration

### 3.7 Code 93

Reading	
	
OFF	(ON)
Code ID	
	
4CH (20-7EH)	
Verify Checksum	
	
OFF	(ON)



End Configuration



Start Configuration

Code 93

Transmit Check Character	
(OFF)	ON
Min. Length	
00H (00-50H)	
Max. Length	
50H (00-50H)	
Truncate Leading Digit	
00H (00-50H)	
Truncate Last Digit	
50H (00-50H)	
Select Insertion Code	
00H (00-02H)	



End Configuration



Start Configuration

### 3.8 Code 128

Reading	
OFF	(ON)
Code ID	
4DH (20-7EH)	
Verify Checksum	
OFF	(ON)
Transmit Check Character	
(OFF)	ON
Select Insertion Code	
00H (00-02H)	



End Configuration



Start Configuration

Code 128

FNC2	
(OFF)	ON
UCC/EAN128	
(OFF)	ON
FNC1	
(OFF)	ON
Truncate Leading Digit	
00H (00-7FH)	
Truncate Last Digit	
00H (00-7FH)	
Min. Length	
00H (00-7FH)	
Max. Length	
7FH (00-7FH)	










End Configuration



Start Configuration

### 3.9 Interleaved 2 of 5

Reading	
	
OFF	(ON)
Code ID	
	
4EH (20-7EH)	
Verify Checksum	
	
(OFF)	ON
Transmit Check Character	
	
OFF	(ON)



End Configuration



Start Configuration

Interleaved 2/5

Truncate Leading Digit
<b>00H</b> (00-7EH)
Truncate Last Digit
<b>00H</b> (00-7EH)
Min. Length
<b>00H</b> (00-50H)
Max. Length
<b>50H</b> (00-50H)
Select Insertion Code
<b>00H</b> (00-02H)








End Configuration



Start Configuration

### 3.10 Industrial 2 of 5

Reading	
	
(OFF)	ON
Code ID	
	
4FH (20-7EH)	
Min. Length	
	
00H (00-32H)	
Max. Length	
	
32H (00-32H)	



End Configuration





Start Configuration

Industrial 2 of 5

Truncate Leading Digit	
00H (00-32H)	
Truncate Last Digit	
00H (00-32H)	
Verify Checksum	
(OFF)	ON
Transmit Check Character	
(OFF)	ON
Select Insertion Code	
00H (00-02H)	



End Configuration



Start Configuration

### 3.11 Matrix 2 of 5

Reading	
(OFF)	ON
Code ID	
50H (20-7EH)	
Verify Checksum	
(OFF)	ON










End Configuration



Start Configuration

Matrix 2of 5

Transmit Check Character	
	
OFF	(ON)
Truncate Leading Digit	
	
00H (00-50H)	
Truncate Last Digit	
	
00H (00-50H)	
Min. Length	
	
00H (00-50H)	
Max. Length	
	
50H (00-50H)	
Select Insertion Code	
	
00H (00-02H)	



End Configuration



Start Configuration

### 3.12 China Post Code

Reading	
(OFF)	ON
Code ID	
00H 51(20-7EH)	
Verify Checksum	
(OFF)	ON
Transmit Check Character	
(OFF)	ON



End Configuration



Start Configuration

China Post Code

Truncate Leading Digit
<b>00H</b> (00-50H)
Truncate Last Digit
<b>00H</b> (00-50H)
Min. Length
<b>00H</b> (00-50H)
Max. Length
<b>50H</b> (00-50H)
Select Insertion Code
<b>00H</b> (00-02H)










End Configuration



Start Configuration

### 3.13 MSI/Plessey

Reading	
 (OFF)	 ON
Code ID	
 <b>52H</b> (20-7EH)	
Verify Checksum	
 (OFF)	 MOD 10
 MOD 10/10	 MOD 11/10










End Configuration



Start Configuration

MSI/Plessey

Transmit Check Character	
	
OFF	(ON)
Truncate Leading Digit	
	
00H (00-3CH)	
Truncate Last Digit	
	
00H (00-3CH)	
Min. length	
	
00H (00-3CH)	
Max. Length	
	
3CH (00-3CH)	
Select Insertion Code	
	
00H (00-02H)	










End Configuration



Start Configuration

### 3.14 Code 32

Reading	
 (OFF)	 ON
Code ID	
 <b>53H</b> (20-7EH)	
Verify Checksum	
 OFF	 (ON)
Transmit Check Character	
 OFF	 (ON)






End Configuration





Start Configuration

Code 32

Truncate Leading Digit

<b>00H</b> (00-0AH)
Truncate Last Digit

<b>00H</b> (00-0AH)
Select Insertion Code

<b>00H</b> (00-02H)








End Configuration



Start Configuration

### 3.15 Code 11

Reading	
	
(OFF)	ON
Code ID	
	
54H (20-7EH)	
Verify Checksum	
	
OFF	(ON)



End Configuration



Start Configuration

Code 11

Transmit Check Character	
(OFF)	ON
Truncate Leading Digit	
00H (00-50H)	
Truncate Last Digit	
00H (00-50H)	
Min length	
00H (00-50H)	
Max. length	
50H (00-50H)	
Select Insertion Code	
00H (00-02H)	



End Configuration

Appendix A



0



1



2



3



4



5



6



7



8



9

ASCII code



A



B



C



D



E



F



Y



N



Confirm



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 table

	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□

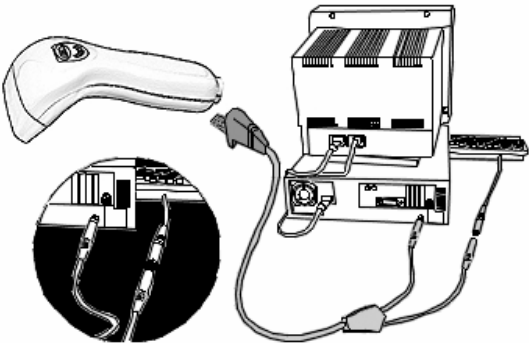
Before scanning barcode, please turn on Full ASCII CODE 39

 UP(\$A)	 F1(\$Q)
 DOWN(\$B)	 F2(\$R)
 LEFT(\$C)	 F3(\$S)
 RIGHT(\$D)	 F4(\$T)
 PAGE UP(\$E)	 F5(\$U)
 PAGE DOWN(\$F)	 F6(\$V)
	 F7(\$W)
 BS(\$H)	 F8(\$X)
 TAB(\$I)	 F9(\$Y)
	 F10(\$Z)

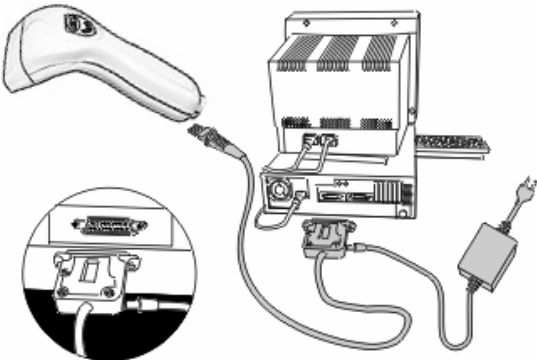
	
HOME(\$K)	ESC(%A)
	
END(\$L)	F11(%B)
	
ENTER(\$M)	F12(%C)
	
INSERT(\$N)	F13(%D)
	
DELETE(\$O)	F14(%E)



**INSTALLATION OF YOUR DEVICE**

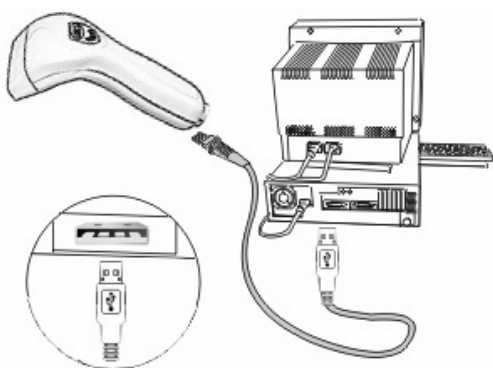


***PS-2 Connection***



***RS-232 Connection (need 5Volts power supply)***

## INSTALLATION OF YOUR DEVICE



### ***USB Connection***

<http://www.barcodeyes.com>