NOTICE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interface, and (2) This device must accept any interface received, including Interface that may cause undesired operation.

This equipment has been tested and found comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interface when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interface to radio communications. Operation of this equipment in a residential area is likely to cause harmful interface in which case the user will be required to correct the interface at his own expense.

 ${f E}$ All brand and trademark are belonged to their respective owner.

E Specifications are subject changed without notice.

Version:2011-1D-02

Operation Manual

2

Index Default Setting Interleaved 2 of 5 (Odd S-code) «««««37 Code-11 <<<<<<<<<>> Code-11 < MSI/Plessey: MS

RSS14 Limited Communication Color RSS14 Stacked Communication Color RSS Expansion Communication Color RSS Expansion Stacked Communication Color RSS Expansion Stacked Communication Color RSS Expansion Stacked Communication Color RSS Expansion Colo

5 String Format:

Prefix/Suffix:

Prefix/Suffix:

6 Memory Scanner Setting:

7 Bluetooth Setting:

8 Wireless Setting:

9 Special Setting for Bluetooth-Memory

scanner communication of the scanner communic

Installation

- First of all, you must make sure that the power is disconnected from your equipment before connecting the scanner. Beside, you also have to check the cable connector of the scanner match your equipment interface correctly.
- 2) Boot up your computer after connecting the scanner with your equipment, the scanner will make a long music and light the LED, above scanner to indicate a successful power on. Trigger the button, the scan line in front of scanner will active. Now you can start to set programming optimal usage.

E If any of the above operation is not right, turn off the power immediately and check any improper connections. Go through all above steps again.

Recommened Steps

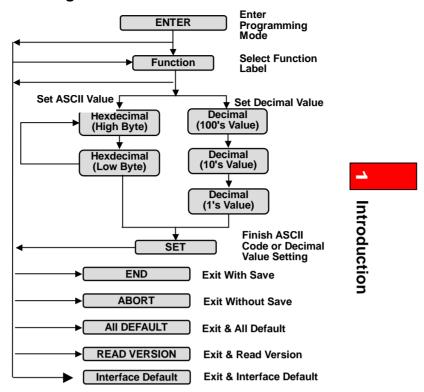
When the required settings have been configured, all settings are stored in non volatile memory of scanner after reading End label. There are recommended steps as follows.

- Set right host interface for your scanner at /10.
 (The scanner is in factory default as bold label)
- Set interface to optimize protocol of scanner with your host in Charter 2.
- Set system control of scanner, such as specific adjustments double confirm, power saving, indicator and scanning mode which you prefer usage in Chapter 3.
- 4) Set code option of scanner for your usage in Chapter 4. You must make sure to enable the symbology first, then Min./Max. code length, code ID checksum and truncate digits are also convered.
- Set string format of the scanner, such as preamble, postamble, prefix, suffix, code ID and code name transmission for your application in Chapter 5.

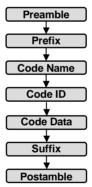
 ${f E}$ If any error step were processing, scanner will generate a 5 beeps as warnning. You have to take care this matter and set correctly again.

 ${f E}$ If it is still not work properly,please contact with dealer. Operation Manual ${f 4}$

Configuration Flowchart



String Output Flowchart



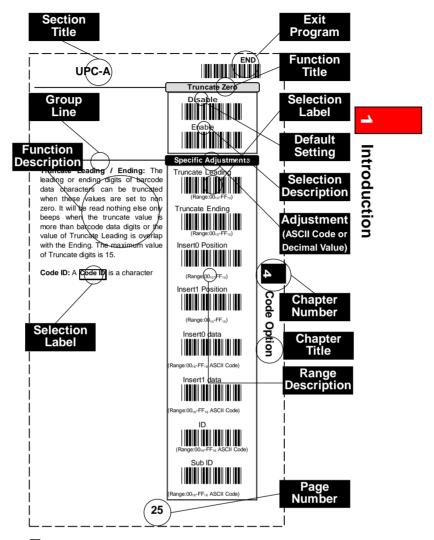
Default Setting						
Code	Read	Length		Truncate		Code
Туре	Enable	Min.	Max.	Leading	Ending	ID
UPC-A	P	-	-	0	0	Α
UPC-E	P	-	-	0	0	Ε
EAN-13	P	-	-	0	0	F
EAN-8	P	-	-	0	0	FF
Code-39	P	0	0	0	0	M
Interleaved 2 of 5		4	0	0	0	ı
Industrial 2 of 5		4	0	0	0	Н
Matrix 2 of 5		4	0	0	0	G
Codabar/NW7	P	0	0	0	0	N
Code-128	P	0	0	0	0	K
Code-93		0	0	0	0	L
Code-11		0	0	0	0	0
MSI/Plessey		0	0	0	0	Р
UK/Plessey		0	0	0	0	R
Telepen		0	0	0	0	S
RSS		0	0	0	0	Т
RSS Limit		0	0	0	0	U
RSS Stack		0	0	0	0	٧
RSS Expansion Li		0	0	0	0	W
RSS Expansion St	ack	0	0	0	0	Х

Adjustment	Value	Result
Beep Loudness	05	Level 5
Beep Tone	27	2.4 Hz
Beep Duration	10	10 mSec
Stand-by Time	05	1 Sec
Led Off Delay	20	100 mSec
Lamp Off Delay	05	1000 mSec
Good read Time	05	100 mSec
Double Confirm Times	02	Once
Tx Gap	00	1 mSec
Tx Delay	00	10 mSec
Timeout	03	1 Sec
Wait Addon Count	10	Once
Preamble Data	00 ₁₆	<null></null>
Postamble Data	00 ₁₆	<null></null>
Prefix Data (All Datas)	00 ₁₆	<null></null>
Suffix Data (All Datas)	0D ₁₆ 0A ₁₆	<cr><lf></lf></cr>

6

Manual Label Layout

The scanner must be set by reading the barcode labels in manual. The discription of label is as follows.



 ${\bf E}\,$ The factory default settings are indicated by bold symbols.

Frequent Question

Q: Why scanner block the keyboard operation?

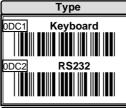
- A: Check the cable connection with your equipment, then turn power on again.
- Q: If the scanner dosen't need an Enter character addition after each barcode label transmission.
- A: Refer to postamble transmission at \(\square\$ 66, then set \(\subseteq \text{isable}. \)
- Q: If the scanner needs to read single digit code.
- A: Refer to Min. code length of code option use "01" in Chapter 4 for single code readable.
- Q: If the scanner can't discriminate an unknown label, but read manual very well.
- A: Refer to code name at \(\sum 20 \) to set Enable, read a barcode label, then you will know what symbology is read. Beside, it maybe need to verify checksum. Refer to verify checksum of code option in Chapter 4, and set Enable.
- Q: If the scanner transferred characters very slow or lost some characters when data be output to screen by keyboard interface
- A: You may set caps lock to be Alt+Keypad at ✓11. Otherwise, it maybe mis-match of transmission rate, therefore, you can adjust an appropriate Tx Gap to match your equipment. See ✓12.
- Q: If the scanner only sounds beep when read barcode but didn't send data to PC.
- A: It is the communication problem between scanner interface and PC. It may be cuased by cable damaged or wrong interface setting. Check your cable connection and set the interface setting again.
- Q: What does Tx , Tx Gap mean ?
- A: Tx means transmittion. Tx Gap means transmittion of Inter-character delay. See \checkmark 12.

 ${f E}$ Call to the dealer if scanner dose not work properly.

Operation Manual



Host Interface



If the interface cable you have is PS2 or USB HID, please set as Keyboard. If it is USB COM or RS232 type, please set as RS232...



All Default::All settings will be reset as bold label,but exclude interface setting.

Barcode Default:Restore to default barcode setting

Keyboard Default:Restore to keyboard interface default setting

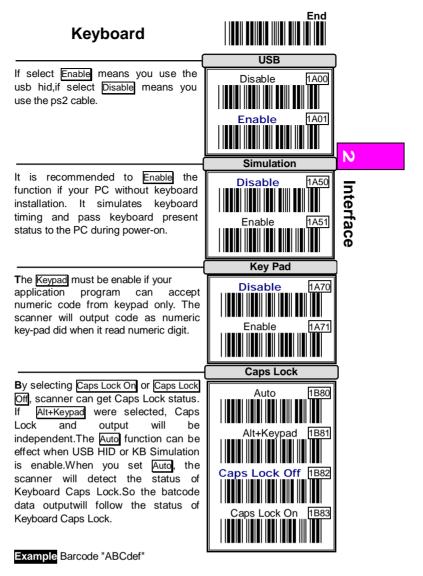
RS232 Default: Restore to RS232 interface default setting

Version: You can get the firmware version & date of decoder.

ABORT: To skip or give up current configuration, so all previous setting will be aborted before you set END to finish programming.

ISP: After enable ISP, the scanner will become COM interface and can be update firmware or configuration to scanner.

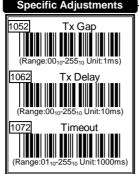
E End user please don't update firmware by yourself, unless you get correct instruction from your dealer. Because improper procedure may cuase damage on the scanner.



Status	Caps Lock	Caps Lock
Selection	On	Off
Caps Lock On	ABCdef	abcDEF
Caps Lock Off	abcDEF	ABCdef
Alt+Keynad	ARCdef	ABCdef



Keyboard



Tx Gap: It will delay the output timing of per digit. If the output speed is too high, the system may not receive all digits. If so, try out suitable delay time to make system work properly.

Tx Delay: It can be used while you will scan several continued short barcode or multi-filed barcode. This function will delay the timing after barcode.

It can delay the waiting time of serial scanner for the handshaking acknowledgment from the host PC. If scanner didn't get acknowledgment from host PC after timeout occur, the scanner will sound 5 beeps as warning. You may need to check the handhsanking mode or adjust to longer delay timer. The function is particular useful for some applications which the host PC will take longer respond time

* TX means : transmission

Example Barcode Data: "ABCD"

Tx Gap: 2ms
Tx Delay: 10ms

1) ENTER_
Entry Programming

2) Tx Gap_ 0_ 2_ SET_ 2ms Inter-char. Delay

02*1ms(Unit)=2ms

3) Tx Delay 0_ 1] SET_ 10ms Transmit Delay

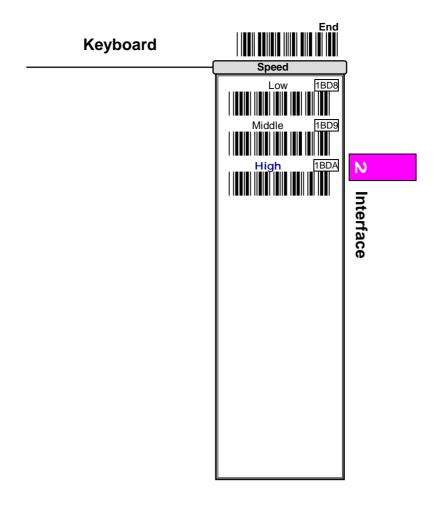
01*10ms(Unit)=10ms

4) END
Exit Programming

Output

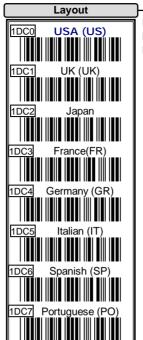
A 2ms B 2ms C 2ms D 2ms

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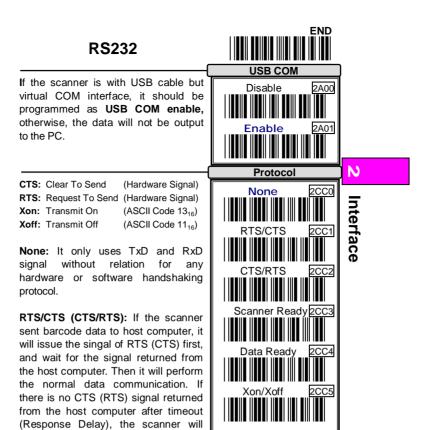




Keyboard



Here you can set up the scanner's language to match your computer keyboard layout.



Scanner Ready: The scanner will issue signal of RTS after power-on, then transmit data upon receiving active CTS signal.

sound 5 beeps as warning.

Data Ready: The scanner will issue signal of RTS to indicate a successful decoding and will transmit data upon receiving CTS signals.

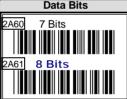
Xon/Xoff: When the host PC can't accept data, it will notice the scanner to suspend data transmission by sending an Xoff code, and Xon as to be continuded.

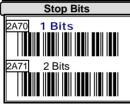
E Remark: If the interface is USB COM, it does not support Protocol setting.



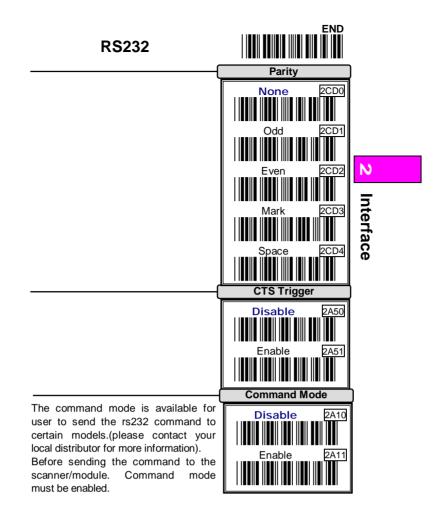
RS232





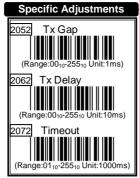


Operation Manual





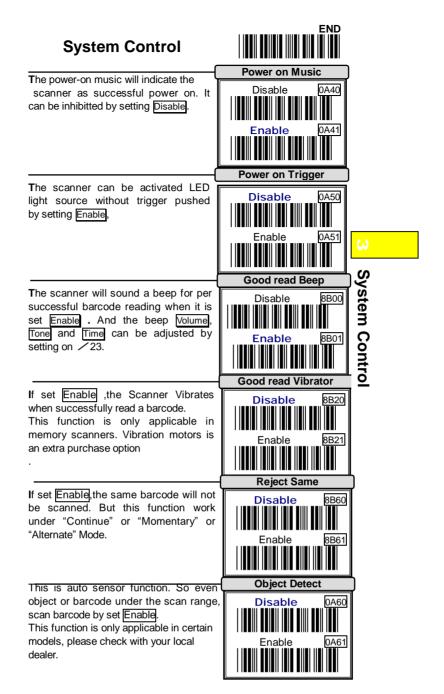
RS232



Tx Gap: It will delay the outout timing of per digit . It is same as $\boxed{\text{Tx Gap}}$ of keyboard wedge on \checkmark 12.

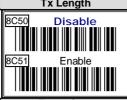
Tx Delay: It is a delay time after barcode. It is same as $\boxed{\text{Tx Delay}}$ of Keyboard wedge on \angle 12.

Timeout: It is same as Timeout of Keyboard wedge on \angle 12.



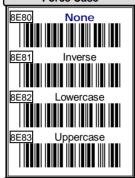


System Control



If your application need Barcode Length, you must set this function to be Enable.

Force Case



It will converse all output digits to be same printing-case, even one barcode may have two kinds of case.

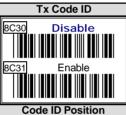
Example Barcode "BarCode",

Uppercase	BARCODE
Lowercase	barcode

Double Confirm



When barcode is easy misreading, try this function. Then scanner will output the data after same decoding by double times. For more times confirm, please refer Double Confirm Count on \(\sigma 24. \) But double confirm will delay the scan speed.

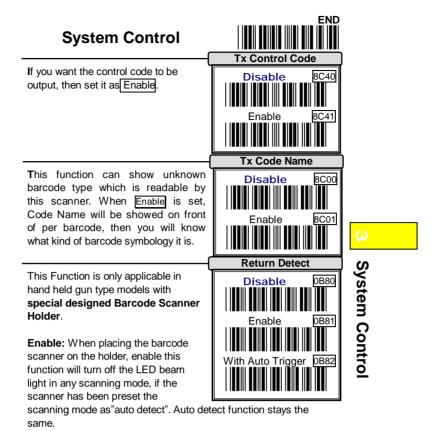


If your application need Code ID, you must set this function to be **Enable**.



Upon your usage, the output position of Code ID can be Before or After Code Data by setting.

Operation Manual

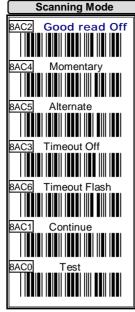


With auto Trigger: When "With Auto trigger" is activated, the scanner LED beam light will automatically turn on when taking off the scanner from the holder. The scanning mode can be implement with this function except "Momentary" mode.

Note: This function is only applicable in handheld gun type models with special designed barcode scanner holder. and these are optional extra purchase function and items.



System Control



Good read Off: The LED light source will be on when the tirgger is pushed and then be off when a barcode is read successfully. And you can refer Stand-by Time on ✓23.

Momentary: The trigger will act as a switch. When the trigger is pressed, it will scan barcode, when it is released it will stop to scan.

Alternate: The trigger will be act as a toggle switch. Press button to active or stop scanning.

Timeout Off: The scanner will scan barcode when trigger is pressed, and it will stop scanning when barcode is not decoded after stand-by time elapsed. Stand-by Time setting is on 23.

TimeOut Flash: The scanner will scan barcode when trigger is pressed, Light source turns flashing when barcode is not decoded after stand-by time elapsed. Stand-by Time setting is on \angle 23. This function is only applicable in certain models, please check with your local dealer.

Continue: No need to press the trigger then the scanner can read barcode when the LED light source is on.

Test: The scanner will always keep reading continuously and same barcode reading is allowed without double confirm. The feature can test the performance of scan speed and sensitive.

 ${f E}$ For saving power and keeping longer life of laser component, the laser beam and motor will be stopped when no code is decoded for all above scanning mode .

22

Beep Time of good reading upon your pavorite usage.

Stand-by Time: The timeout duration can be adjusted from 1 to 99 seconds. The Stand-by Time is only effective during Good-read Off & Timeout Off mode for CCD scanner. If no code to be read after Stand-by Time, on laser scanner,the laser beam and motor will be shutdown to keep the life time of laser diode.

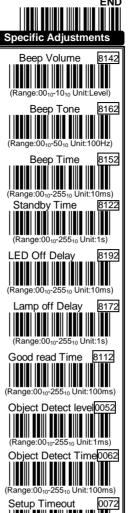
LED/Lamp Off Delay: There are two kinds LED light source durations for all scanning mode. The scanner light source will be flash when no code is read until Standby Time is timeout. The Led Off Delay is lighting duration and the Lamp Off Delay is blanking duration. The scanner can still read barcode during the light source is flashing and then be waked up automatically when read a barcode.

Object Detec Level : It is the function of auto detection. You can set up the level of detection sensitivity you want.

Object Detect Time: It can adjust the time for auto detection duration.

Setup Timeout : It is the timer

between scanner go into " Enter" and quit " End". So that means you need to finish whole setting before the setup timeout timing. Otherwise, the scanner will quit the setting mode as soon as the time is up.



System Control



System Control

B102 Double Confirm count Global Min. Length 31F2 Global Max. Length

Set Date & Time

Vibrator Off Delay: Sets the duration of vibration of scanner, Unit: 10 ms.

Wait Addon Count: This setting is used for WPC add-on code, such as EAN and UPC. The WPC code must be decoded first, then Add-on. Add-on may not be decoded with WPC at the same time. Therefore, you can set wait addon count to force the add-on code must be output with WPC code together.

If the Wait addon count is set as "0",the barcode data will only be output with add-on code.

Double Confirm Count: The more confirm times the less miss-reading will be happened. This feature should depend on the symbology and printing quality of barcodes. Selecting a higher value will reduce read-out speed.

Global Min. / Max. Length: When you

set min. length, barcode digits number which is under the min. length, it will not be decoded. If you set Max. length, the barcode digits which is over the value will not be decoded, neither. But the values setting will not effect in some fixed length symbobolgies (i.e. UPC and EAN is called WPC).

If Min. Length and Max Length are specified, and Min.length > Max. Length, the barcode data will only decoded by the length of two specified value of Min. Length and Max. Length.

Set Date & Time: Date and Time setting. The setting format will be (yy/mm/dd/hh/mm/). (Note: this function is only applicable in memory scanner models)

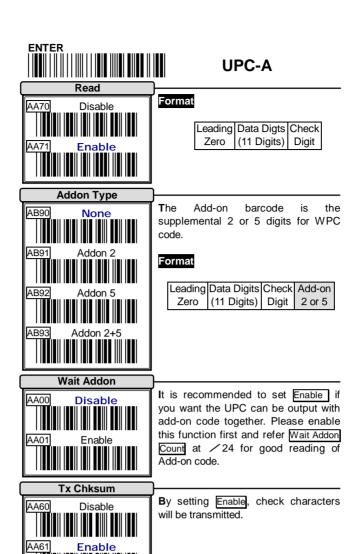
For the example, setting the scanner date and time as 2012, Aug, 30.13:30...

- 1) Scan "Enter" barcode
- 2) Scan "Set Date & time" barcode
- 3) Refer to ASCII table in page 82, and scan "1208301330" as (2012, Aug, 30, 13:30)
- Scan "SET" barcode
- 5) Scan "End" barcode

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System Control



UPC-A

The all leading "0" of barcode data will be truncated when this function is enabled.

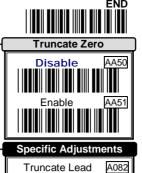
Example Barcode "00054321"

Output "54321"

Truncate Lead / End: The leading or ending character of barcode data will be truncated when these values are set to non zero. It will be output nothing except beeps if the truncate value is more than barcode data digits or overlap with the Ending. The maximum value of Truncate digits is 15.

ID: The □ is a character which is used to represent the symbobly while successful reading. It will be prefixed on the front or back barcode. There are some symbobolgies (i.e. UPC-E and EAN-8) include 2 Code ID. If your application need Code ID, please enable Code ID Transmission first. You can refer the setting at ∠20.

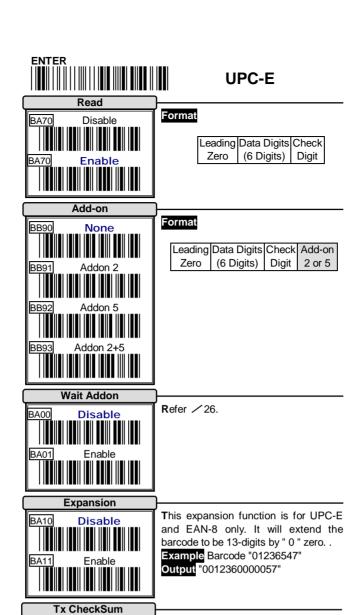
Insert Position & Data: This function can append one or two characters into the barcode data. But you need to make sure the value of insert position can not be greater than the length of barcode. Otherwise, your setting will be no effect. You can add an Insert Data 0 at Insert Position 0





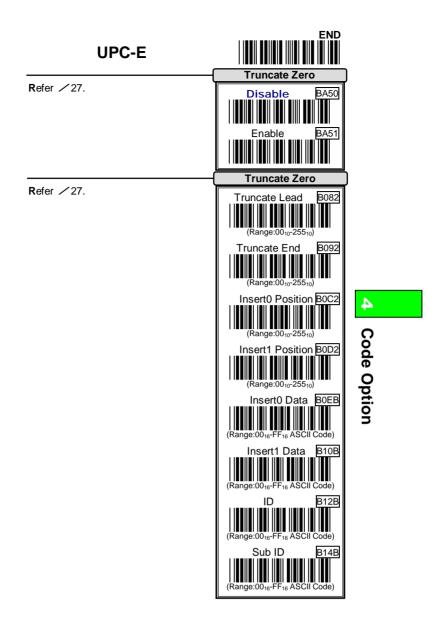
Code Option

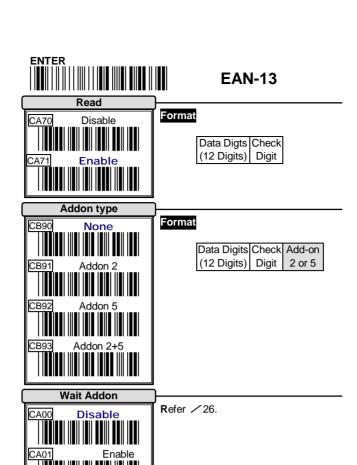
E If the insert position you set is 0, the character will be inserted in the front of the barcode. If the value is FF, the inserted position will be behind the barcode. If the value is 1, the character will be inserted behind the first barcode digit. If the value is 2, the character will be inserted behind the second digit.....and so forth.

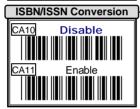


Disable

Refer / 26.



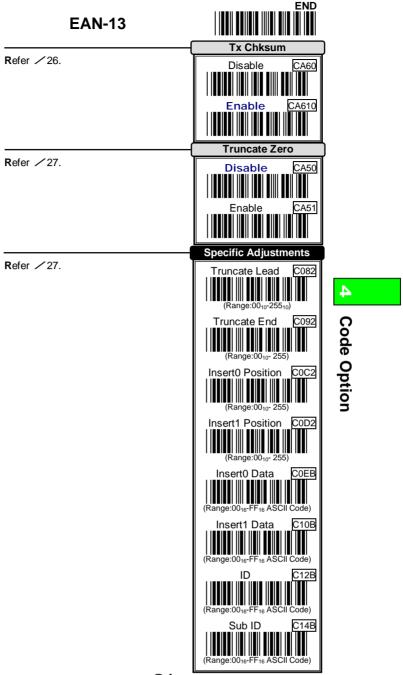


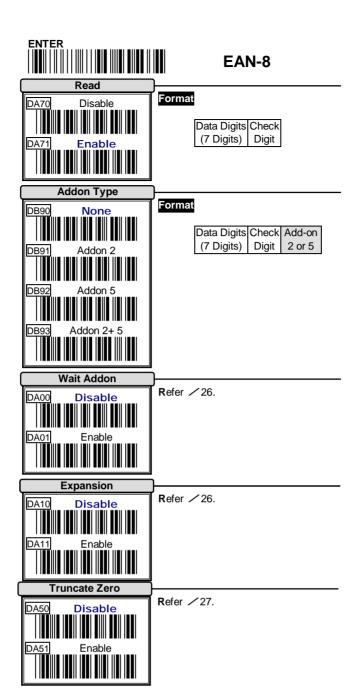


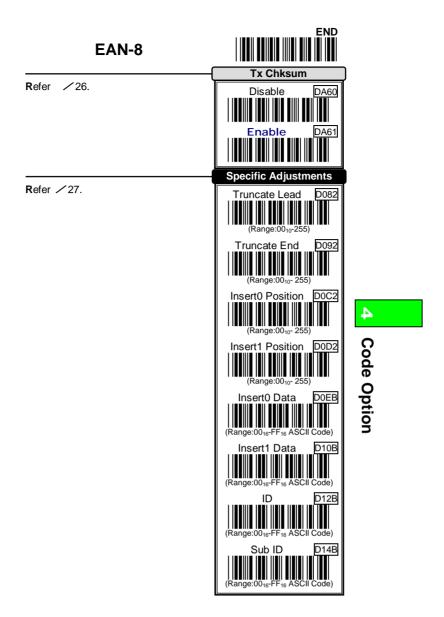
The ISBN (International Standard Book Number) and ISSN (International Standard Serial Number) are especial barcode for book and magazine. The ISBN is 10 digits with leading "978" and the ISSN is 8 digits with leading "977" of "EAN-13".

Example Barcode "9789572222720" **Output** "9572222724"

Example Barcode "9771019248004" **Output** "10192484"







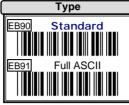


CODE-39

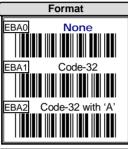


Format

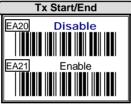
Start Data Digits Checksum End (Variable) (Optional) "*"



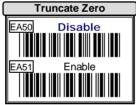
The Full ASCII function is an enhanced setting for Code-39 which is with toatal 128 digits to represent Full ASCII code. It must be combined by either one of +, %, \$ or / and one of alpha character (A to Z).



The Code-32 symbology (Italian Pharmaceutical) is another version of Code-39 which max. can be 10 digits and can be 0-9 digits. The leading A is an optional character and can be set to be transmitted or not.



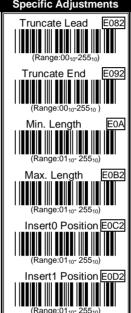
The Start and End character of Code-39 must be "ã". You can transmit all data digits including two "ã" by set Enable.



Refer / 27.

symbology has its own Min./Max. Code Length. They can be set to qualify data entry. If the Min./Max. Code Length is zero, the Public Min./Max. Code Length is zero, the Public Min./Max. Code Length will be changed. The length is defined by the actual barcode length transmitted. If the barcode length is over the value of min/max. length, it will not be output. Make sure the Minimum length value is not bigger than the Maximum length, otherwise, this barcode will not be output. In particular, you can set the same value for Minimum and Maximum length to have the fixed length barcode must be decoded.

Refer /27.



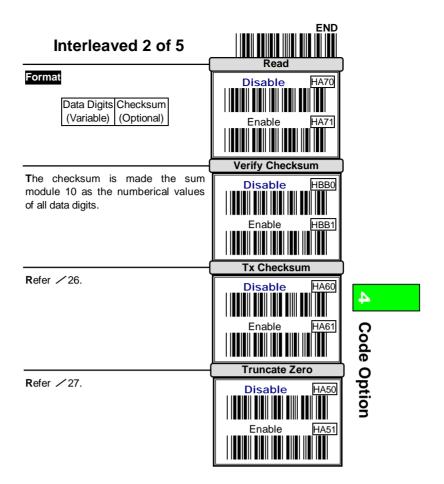
Code Option

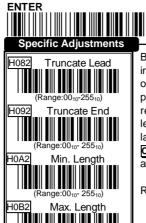


CODE-39

Refer / 27.







Insert0 Position

H0D2 Insert1 Positionh

H0EB Insert0 Data

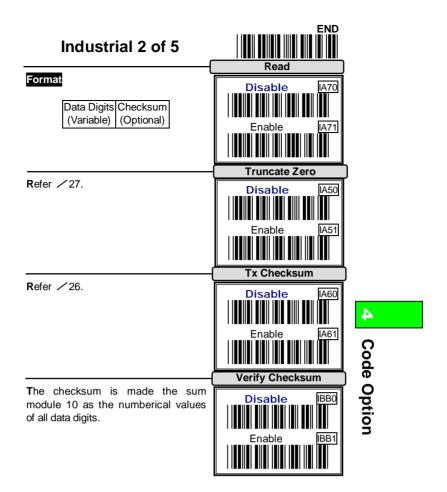
H10B Insert1 Data

Sub ID

H14B

Interleaved 2 of 5

Because, the start and end of interleaved 2 of 5 code is not olny one patten in symbol. In order to prevent partial reading, it is recommand to use the fixed code length for each 2 of 5 code barcode label. Setting the same Min./Max. Code Length, it is like a length filter, and only one length is accepted.

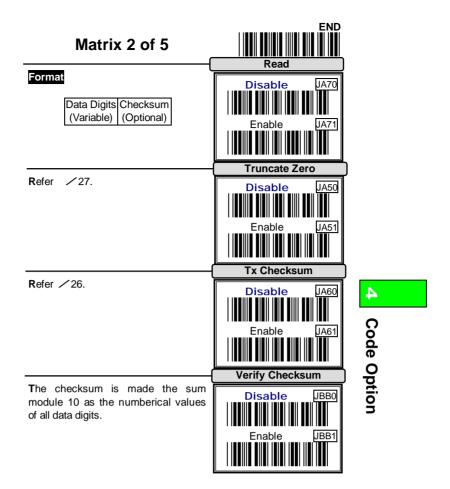




Industrial 2 of 5



Refer /27, /35.

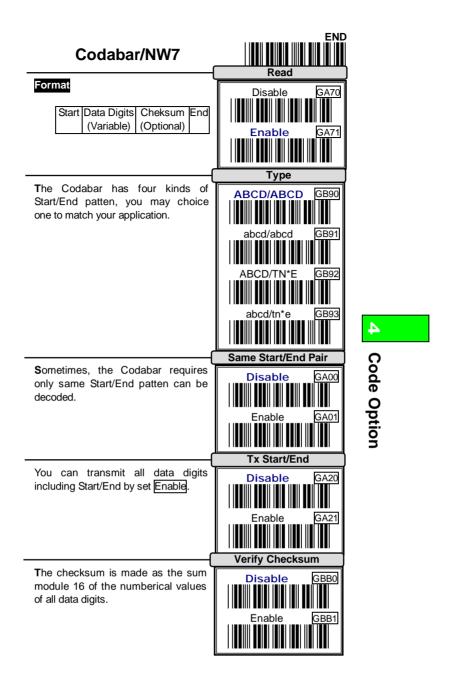


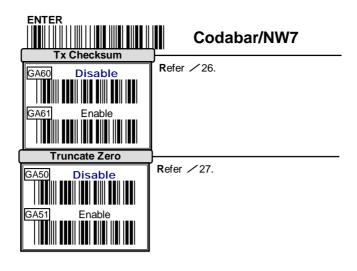


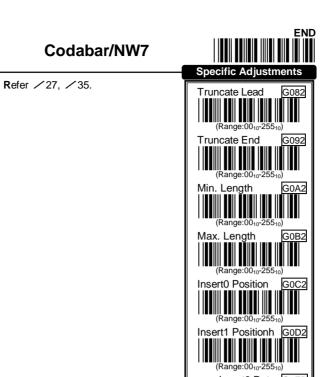
Matrix 2 of 5



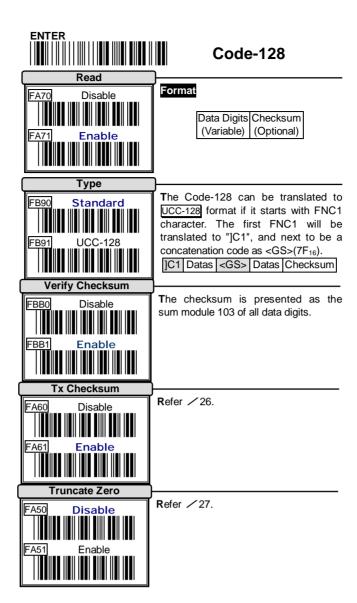


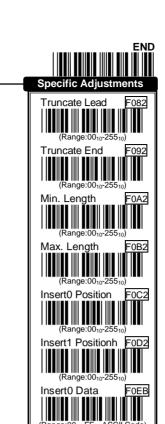












ID F12B

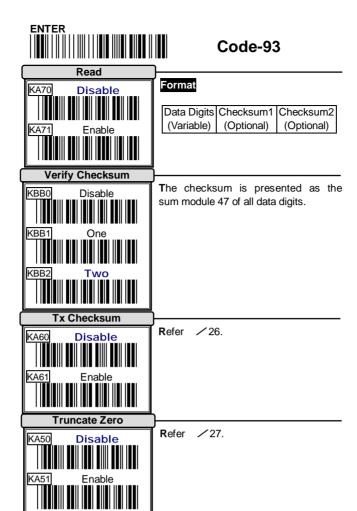
Range:00₁₆-FF₁₆ ASCII Code)

Sub ID F14B

Range:00₁₆-FF₁₆ ASCII Code)

Code-128

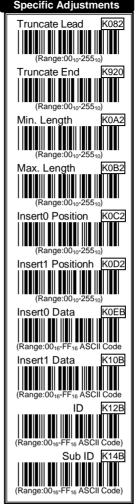
Refer /27, /35.



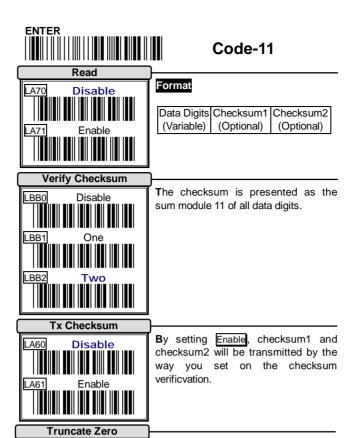




Refer /27, /35.



4

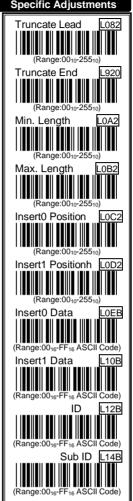


Refer /27.



END

Refer /27, /35.



4

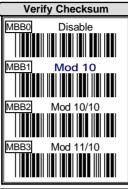


MSI/Plessey

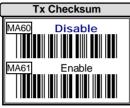


Format

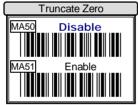
Data Digits	Checksum1	Checksum2
(Variable)	(Optional)	(Optional)



The MSI/Plessey has one or two optional checksum characters. The checksum is presented by 3 kinds of method as Mod 10, Mod 10/10 and Mod 11/10. The checksum1 and checksum2 will be calculated as the sum module 10 or 11 of the data digits.



Refer / 26.



Refer / 27.

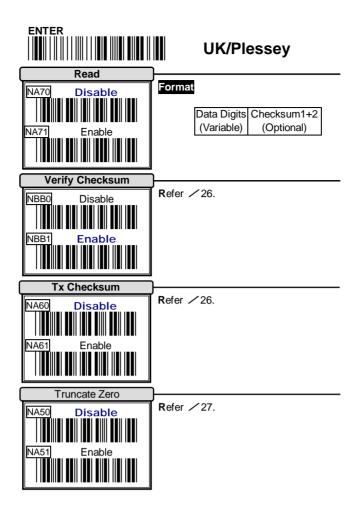


EN

Refer /27, /35.



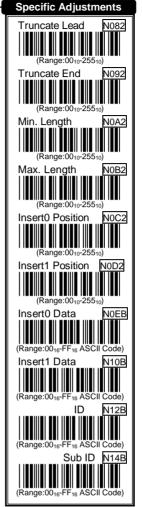
4



UK/Plessey

END

Refer /27, /35.



4

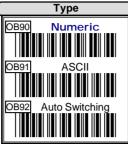


Telepen

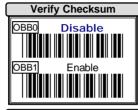


Format

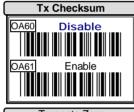
Data Digits Checksum (Variable) (Optional)



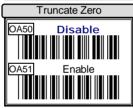
A Telepen can be transimtted by Numeric and ASCII format. Characters can be mixed the both format into the Telepen barcode. By setting Auto Switching, datas can be conversed between Numeric and Full ASCII by character <DLE>(7F₁₆) automatically.



Refer /26.



Refer / 26.

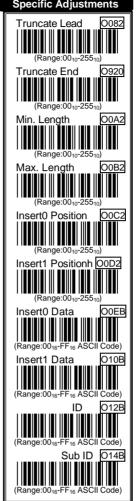


Refer / 27.

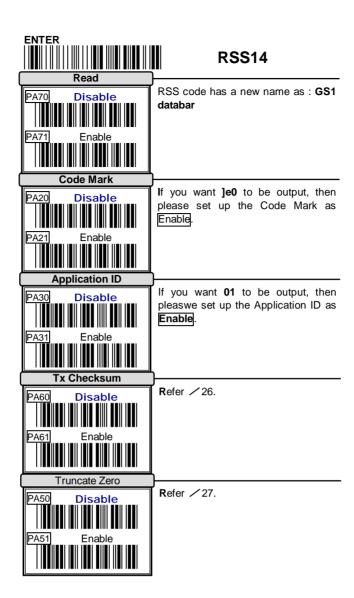


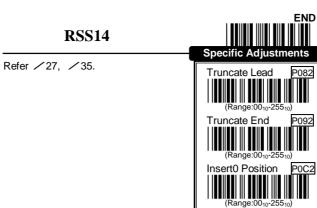


Refer /27, /35.









(Range:00₁₀-255₁₀)

Truncate End P092

(Range:00₁₀-255₁₀)

Insert0 Position P0C2

(Range:00₁₀-255₁₀)

Insert1 Positionh P0D2

(Range:00₁₀-255₁₀)

Insert1 Data P0EB

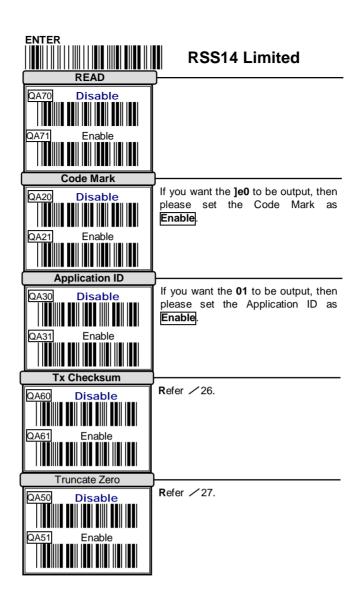
(Range:00₁₆-FF₁₆ ASCII Code)

ID P12B

(Range:00₁₆-FF₁₆ ASCII Code)

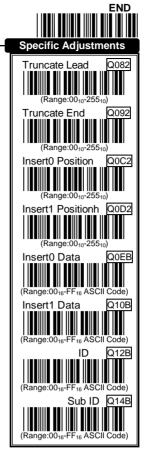
Sub ID P14B

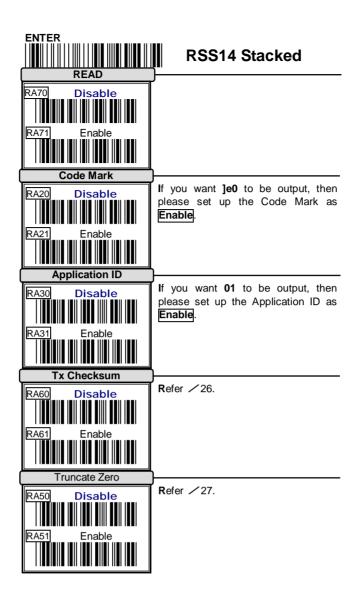
(Range:00₁₆-FF₁₆ ASCII Code)

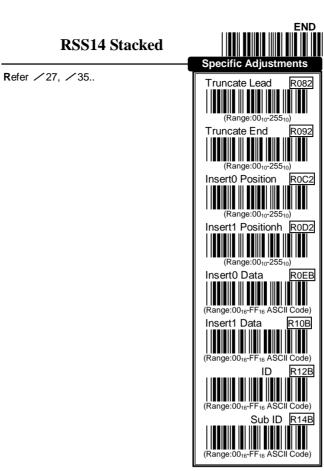




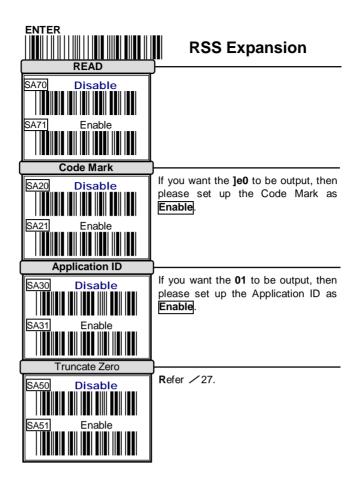
Refer /27, /35.

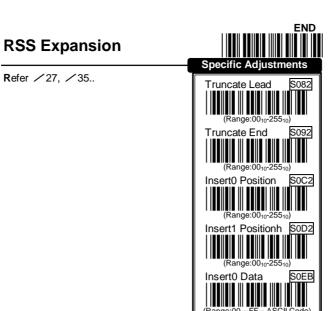


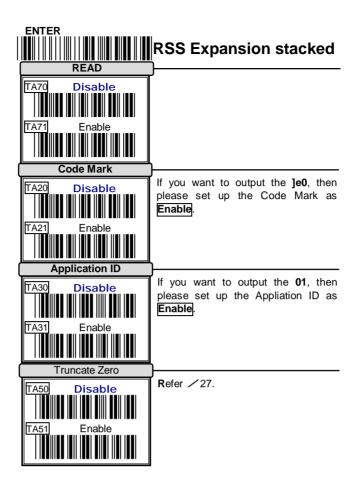


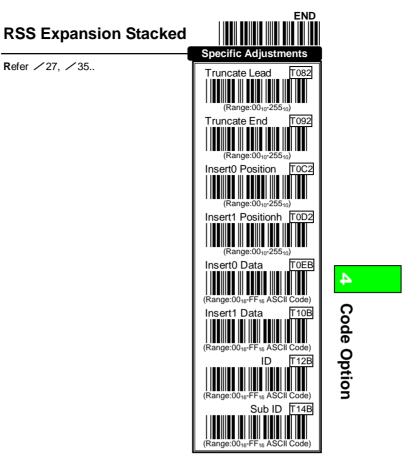






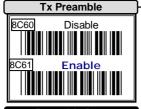








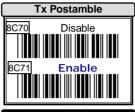
Preamble/Postamble



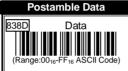
By setting Enable, Preamble will be appended in front of the barcode. Refer to String Output Flowchart on \(\sigma 5. \)



There is One control digit can be programmed as Preamble. It will be appended automatically when each barcode is decoded.



By setting Enable, Postamble will be appended after the barcode. Refer to String Output Flowchart on ✓ 5.

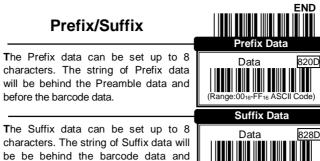


Generally, your application need to append a carriage return character to finish data transmission. Or you may set the Postamble to be Disable to have your application without any

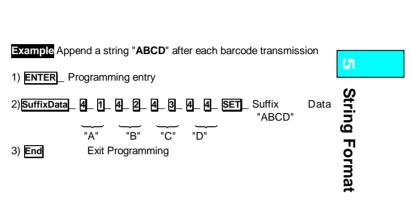
control characters apppended after data transmission. The factory default of Postamble Data is <CR>(0D₁₆) and <LF>(0A₁₆).

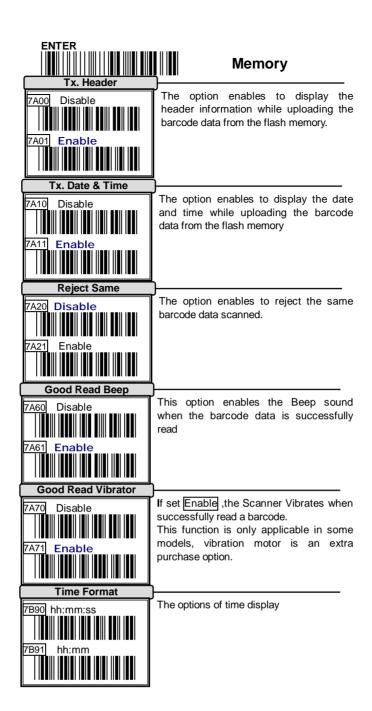
Example Append the code "@" after each barcode transimitted.

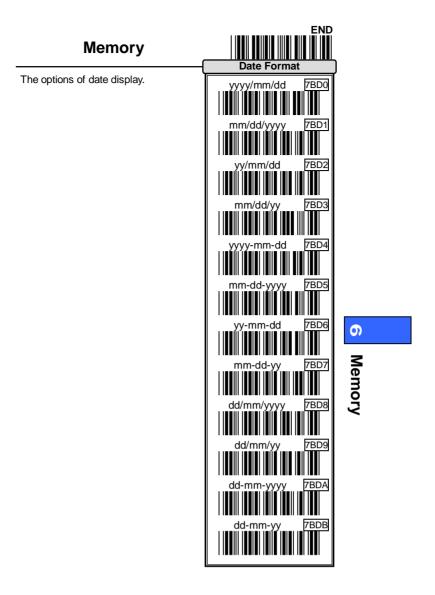
- 1) **ENTER** Entry Programming
- 2) Tx Postamble _ Enable Postamble Transmission
- 3) Postamble Data 4_0_ SET_ Postamble Data "@"
- 4) **END** Exit Programming



The Suffix data can be set up to 8 characters. The string of Suffix data will be be behind the barcode data and before the Postamble data. Refer String output Flowchart on page 5.









Memory

Range:0010-25510 Unit:1s) 707A Separator (Range:0016-FF16 ASCII Code)

Ext Tx Delay:

This option enables to add delay time in each barcode data upload to PC. **Default:0ms, Max:2550ms**.

This is only applicable in memory scanner models.

Lamp Off Delay: This enables to set the duration time of laser beam power on, the laser beam will automatically turn off if barcode label not scanned. This setting is only available when the trigger mode is set as" good read off" or "Timeout Off". Default: 5 Sec.

Standby Time: When the light source turns off, this function enables to set

the time to turn off the main power of the scanner. **Default: 0 sec**.

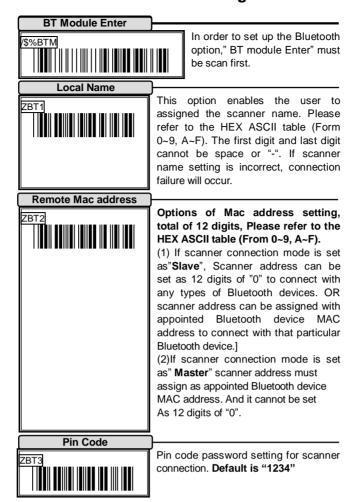
Separator: when uploading the barcode data from flash memory, the separator symbol between the data can be specified.

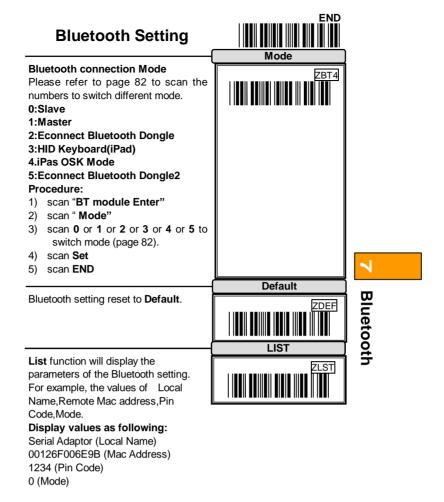
Memory



6 Memory

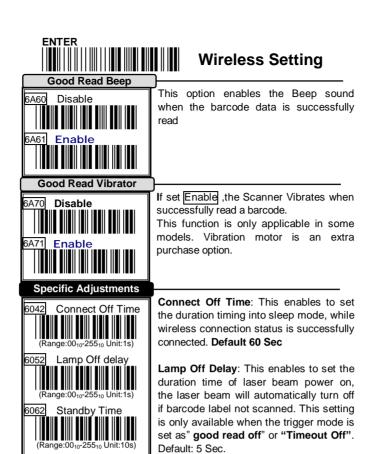
Bluetooth Setting





Note:

- When paring in progress, pressing the paring button again will cancel the current pairing progress.
- When resetting the connection of Slave/ Master mode, user must re-pairing with the bluetooth device for rest changes.
- When Blue LED flashing quickly, it means resetting the changes to the scanner.
- When Blue LED flashing slowly, it means pairing progress waiting.
- When Connection mode is set as "Slave", pairing process must be accomplish in 60 seconds. Otherwise, connection failure will occur.



scanner. Default: 0 sec.

Timeout

Timeout: the timeout setting for the handshaking acknowledgment from the host PC. If scanner did not receive acknowledgement from the host PC, the warning sound will be active. The function is particular useful for some application which the host PC will take longer response time. **Default: 10 Sec.**

Standby Time: When the light source turns off, this function enables to set the time to turn off the main power of the

Wireless Setting



8 Wireless

Special Setting For Bluetooth-Memory scanner

Special Setting For BI Send Barcode data | Sample | Samp

In Bluetooth mode or connecting with USB cable, scan this barcode will transmit the saved barcode data in the memory to PC

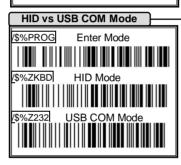
Under any operation mode, scan this barcode will erase all the barcode data saved in the memory.



For Bluetooth Three in one function model, you can scan this barcode to switch from Bluetooth mode to Memory mode without pressing the Scan key for mode switching.



For Bluetooth Three in one function model, you can scan this barcode to switch from Memory mode to Bluetooth mode without pressing the Scan key for mode switching.



For how to switch HID and USB COM mode, please refer to the following procedure.

- Insert the Bluetooth Dongle to computer, and wait for pairing processing between scanner and Dongle.
- Scan "Enter Mode" barode, and select HID or USB COM mode.

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Cable Type

IBM PC, XT, AT & PS/2			
Function	6p Mini Din(M)	6p Mini Din(F)	
Clock (Host)	5		
Data (Host)	1		
Clock (KBD.)		5	
Data (KBD.)		1	
Ground	3	3	
GND Shield	3	3	
VCC (+5V)	4	4	





5p Mini Din(M) 6p Mini Din(F)

RS-232				
Function	9p D-Sub(F)	DC Jack(M)		
TxD	2			
RxD	3			
RTS	8			
CTS	7			
Shorted	4,6			
Ground	5	2		
GND Shield	5	2		
VCC (+5V)	9	1		



9p D-Sub(F)

1----2

DC Jack(M)

Test Chart

UPC-A



EAN-13 (ISBN) with Add-on 5



978957221667<u>5</u> 00420 (ISBN: 957221667<u>8</u>)

Code-39 (Full ASCII Code)



* C O D E 3 9 T + E + S + T * (Full ASCII Code: *CODE39 Test*)

Interleaved 2 of 5



Code-93



Code-128 (C Type)



0123456789<u>e</u> (UCC/EAN-128:)C10123456789e)

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Test Chart





TELEPEN Test <u>+</u> (Numeric: 574249425342510557748889<u>16</u>) **RSS14**



RSS Expansion Stacked



(01) 0 0614141 00001 2

ASCII Code Table

Ľ	0 (*)	1 (*)	1 (*)	
0	Null		NUL	
1	Up	F1	SOH	DC1
2	Down	F2	STX	DC2
3	Left	F3	ETX	DC3
4	Right	F4	EOT	DC4
5	PgUp	F5	ENQ	NAK
6	PgDn	F6	ACK	SYN
7		F7	BEL	ETB
8	Bs	F8	BS	CAN
9	Tab	F9	HT	EM
Α		F10	LF	SUM
В	Home	Esc	VT	ESC
С	End	F11	FF	FS
D	Enter	F12	CR	GS
Е	Insert	Ctrl+	SO	RS
F	Delete	Alt+	SI	US

(*) For keyboard wedge only.

Тн						
<u>'</u> "	2	3	4	5	6	7
0	SP	0	@	Р	,	р
1	!	1	Α	Q	а	q
2	"	2	В	R	b	r
3	#	3	U	S	C	s
4	\$	4	D	Т	d	t
5	%	5	Е	U	е	u
6	&	6	F	٧	f	٧
7	6	7	G	W	g	w
8	(8	Н	Х	h	х
9)	9	ı	Υ	i	у
Α	*		7	Z	j	z
В	+	•,	K	[k	{
С	,	٧	٦	١	-	1
D	-	=	М]	m	}
Е		۸	N	۸	n	~
F	1	?	0		0	DEL

Operation Manual