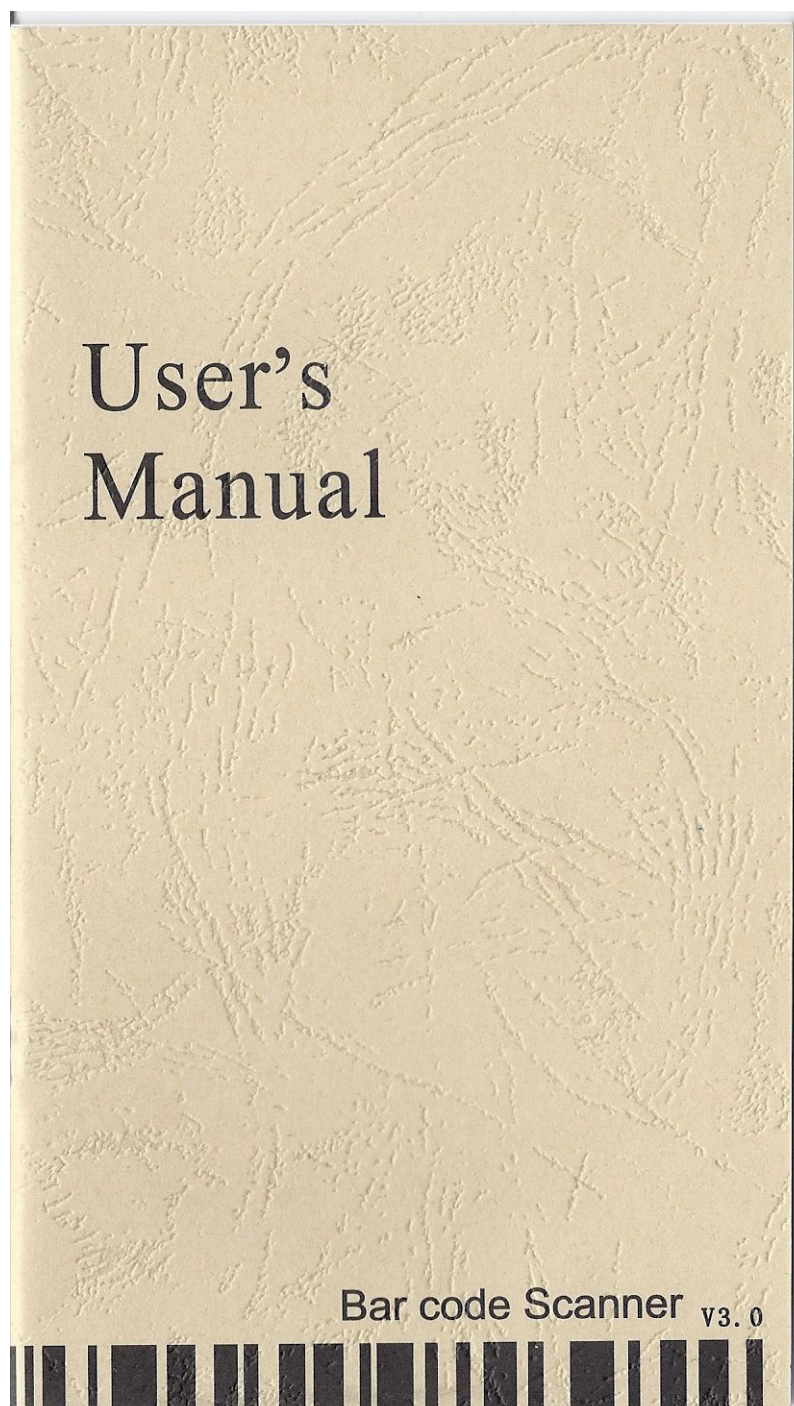


INSTRUKCJA OBSŁUGI CZYTNIKA KODÓW KRESKOWYCH XL 6800.



Introduction

Bar Code devices provide an accurate, easy, and fast method of data entry and data storage for computerized information systems.

The products we offer have another technology of infrared automatic sensor. User only need to put the bar code into the sensing area which in front of window, 650nm laser will be automatic activater. Then aimed at the bar code which need to scan, the scanner scan automatically, the information will transmit to the host compute system.

There are two mode for this produce: handheld and automatic sening laser barcode scanner. That means user can use it by handheld mode or can use as the fixation with the bracket-held.

The products we are offering now can be integrated into any host computer system by the following ways:

Keyboard
Wand
RS-232
Dual RS-232
USB
OTHERS

All the operating parameters are programmed by bar code programming menu and stored in non-volatile RAM which can retain the settings after power is turned off.

For the functions which are not listed in this menu, please consult your supplier for more details.

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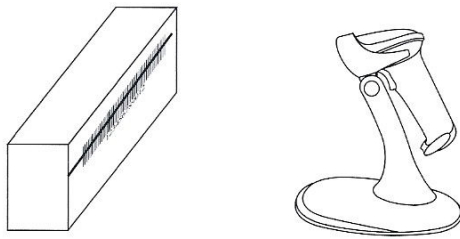
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Auto-induction Barcode Scanner Operating Instructions :

1. The auto-induction barcode scanner default the auto-induction patter when it electrify. When the object near the induction zone, the infrared can auto-induce the object, then starting the laser to read the barcode, longest reading barcode time is 2 seconds, when the object leave the induction zone, then near the induction again to carry on reading barcode second time! (Figure1)



(Figure1)

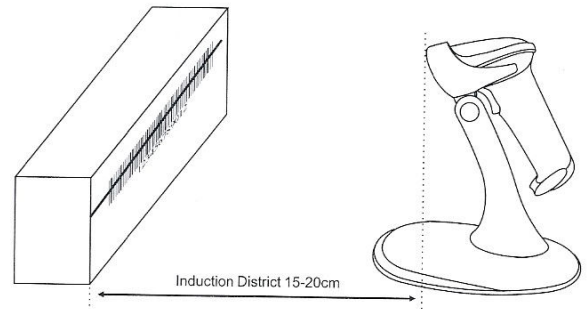
2. If you want the scanner to stop reading code function, only needs to press the button for 8 seconds, then loosen the button, will stop the reading code function, if you press the button for 8 seconds again, will comeback Auto-induction reading code function (figure2)



(Figure 2)

4

3. Between the scanner and the object's distance is 15-20CM (figure 3)



(figure 3)

4. Make sure there is no baulk on the induction zone in front of the window of scanner when using, the scanner will be startup when the barcode near the window of scanner. If reading successful or can not reading in certain time, the scanner will auto-off the laser!

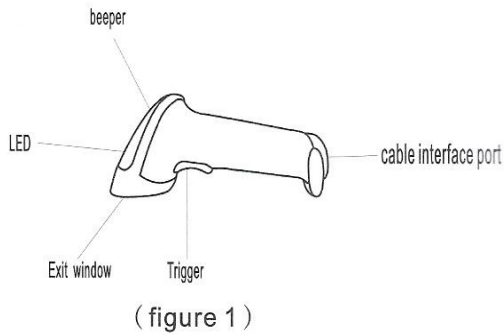
5. when the laser close., the object need to move from the induction zone in order to scan next time

Page 4-5 just for the Auto-induction Barcode Scanner

5

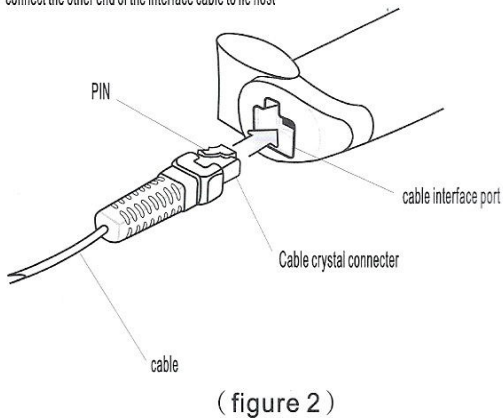
Barcode scanner appearance installing and removing:

appearance:



installing the interface cable:

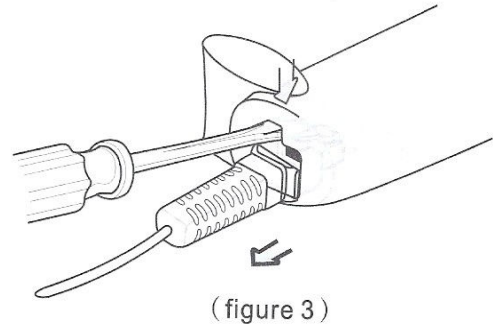
1. plug the interface cable modular connector into the cable interface port on the bottom of the scanner handle (see figure 2)
2. Gently tug the cable to ensure the connector is properly secured
3. connect the other end of the interface cable to the host



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Removing the Interface Cable:

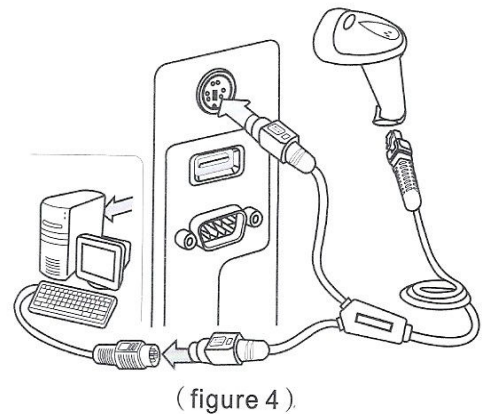
1. Unplug the installed cable's modular connector by depressing the connector clip with the tip of a screwdriver
2. Carefully slide out the cable
3. Follow the steps for Installing the Interface Cable on page 7-9 to connect a new cable.



Cable Connection

Keyboard Wedge Connection with Y-cable

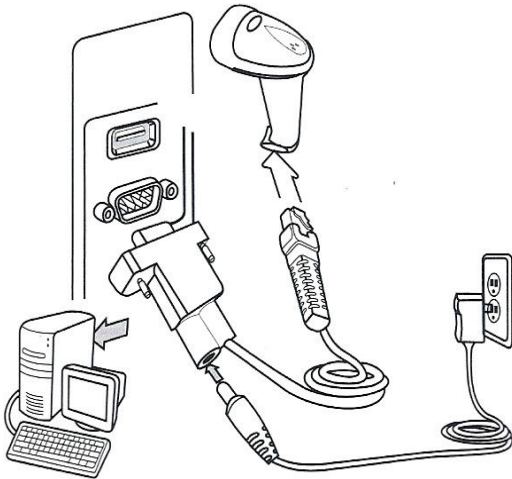
1. Switch off the host and unplug the keyboard connector
2. Connect the host female DIN keyboard connector of the Y-cable to the keyboard
3. Connect the round male DIN host connector of the Y-cable to the keyboard port on the host device.
4. Switch on your host system. The buzzer and LED of scanner will have the remind signal if all connections are secure.



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RS-232 Direct Connection:

1. Switch off the host
2. Connect the RS-232 interface cable to the bottom of the scanner
3. Connect the other end of the interface cable to the serial port on the host
4. If the equipment haven't power supply, use the 5V power supply to the cable.
5. Switch on your host system. The buzzer and LED of scanner will have the remind signal if all connections are secure.

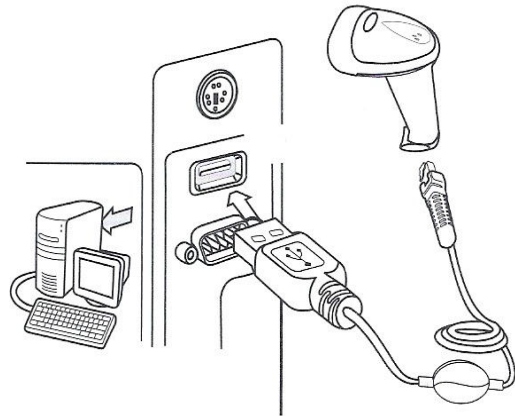


(Figure 5)

USB Connection

Scanner connects with USB cable hosts

1. Connect the USB interface cable to the bottom of the scanner
2. Connect the other end of the interface cable to the host
3. The buzzer and LED of scanner will have the remind signal if all connections are secure
4. Windows will check the USB equipment automatically.



(Figure 6)



COME BACK MANUFACTURER SETTING

NOTE: ALL THE PARAMETER WILL COMEBACK THE
MANUFACTURER SETTING



DISPLAY THE EDITION INFORMATION



KBW MODE



SERIAL MODE

10

Multiscan Function-1

ADD BARCODE ID



BEFOR OPEN BARCODE
TO ADD ID



SEBEFORE CLOSE BARCODE
TO ADD ID



AFTER OPER BARCODE
TO ADD ID



AFTER CLOSE BARCODE
TO ADD ID

SCANNING MODE



LASER/CCD MODE-RESET



LASER/CCD MODE-SINGLE
SCAN NO TRIGGER



LASER/CCD MODE-MULTISCAN



LASER/CCD MODE-MULTISCAN
NO TRIGGER



LASER/CCD MODE-AUTOMATIC
CONTINUOUS SCAN



LASER/CCD MODE-AUTONATIC
TWINKLE

BUZZER



MUTE



TURN ON

11

Interface-KBW

Interface-Serial-1

PC INPUT MODE



WEDGE MODE-AUTODETECT



WEDGE MODE-SCAN SET 2
PASS THRU

TRANSMIT SPEED



TRANSMIT SPEED-0



TRANSMIT SPEED-25

KBW LANGUAGE



KEYBOARD COUNTRY-USA



KEYBOARD COUNTRY
-GERMAN



KEYBOARD COUNTRY
-FRANCE



KEYBOARD COUNTRY
-RESET

BAUD RATE



SERIAL BAUD RATE-2400



SERIAL BAUD RATE-4800



SERIAL BAUD RATE-9600
(DEFAULT)



SERIAL BAUD RATE-19200

HAND SHAKE PROTOCD



SERIAL HANDSHAKE-NONE



SERIAL HANDSHAKE-XON/XOFF



SERIAL HANDSHAKE-RTS/CTS



SERIAL HANDSHAKE-ACK/NAK



SERIAL HANDSHAKE TIMEOUT
-2 SECONDS



SERIAL HANDSHAKE TIMEOUT
-5 SECONDS

INTERFACE-SERIAL-2

Barcode On/off-1

DATA BIT



SERIAL DATABITS-7



SERIAL DATABITS-8 (DEFAULT)



ON CODE11



OFF CODE11

END BIT



SERIAL DAD BITS-1



SERIAL DAD BITS-2



ON CODE39



OFF CODE39

PARITY CHECK



SERIADL PARITY-NONE



SERIADL PARITY-ODD



ON CODE93



OFF CODE93



SERIADL PARITY-EVEN



SERIADL PARITY-MARK



ON CODE128



OFF CODE128



SERIADL PARITY-SPACE



SERIADL PARITY-RESET



ON CODEMSI



OFF CODEMSI

MSI/PLESSEY



ON INTERLEAVED 2 OF 5



OFF INTERLEAVED 2 OF 5

INTERLEAVED 2 OF 5

Barcode On/off-2

Barcode Symbol Set Up-1



INDUTRIAL 2 OF 5



OFF INDUSTRIAL 2 OF 5



CODABAR



OFF CODABAR



UPC/EAN



OFF UPC-A



ON UPC-E



OFF EAN-E



ON EAN-13



OFF EAN-13



ON EAN-8



OFF EAN-8



CODE11



CODE 11 ID
CHARACTER- 'Z'



ON CODE 11 LASER/CCD
REDUNDANCY



OFF CODE 11 LASER/CCD
REDUNDANCY



CODE 39 SS CHAR-NONE



CODE 39 SS CHAR-NONE '+'



ON CODE 39 START/END
CHARS



OFF CODE 39 START/END
CHARS



CODE 39 ID CHARA-
CTER 'A'



CODE 39 ID CHARA-
CTER 'Z'



ON CODE 39 LASER/CCD
REDUNDANCY



OFF CODE 39 LASER/CCD
REDUNDANCY

Barcode Symbol Set Up-2

CODE 93



CODE 93 ID CHARACTER- 'H'



CODE 93 ID CHARACTER- 'Z'



ON CODE 93 LASER/
CCD REDUNDANCY



OFF CODE 93 LASER/
CCD REDUNDANCY

CODE 128



CODE 128 ID CHARACTER- 'G'



CODE 128 ID CHARACTER- 'Z'



ON CODE 128 LASER/
CCD REDUNDANCY



OFF CODE 128 LASER/
CCD REDUNDANCY

MSI/PLESSEY



CODE MSIISBW ID
CHARACTER- 'F'



CODE MSIISBW ID
CHARACTER- 'Z'



ON CODE MSI LASER/
CCD REDUNDANCY



OFF CODE MSI LASER/
CCD REDUNDANCY

Barcode Symbol Set Up-3

INTERLEAVED 2 OF 5



2 OF 5 ID CHARACTER- 'I'



2 OF 5 ID CHARACTER- 'Z'



ON 2 OF 5 LASER/CCD
REDUNDANCY



OFF 2 OF 5 LASER/CCD
REDUNDANCY

INDUSTRIAL 2 OF 5



INDUSTRIAL 2 OF 5 ID
CHARACTER- 'J'



INDUSTRIAL 2 OF 5 ID
CHARACTER- 'Z'



ON INDUSTRIAL 2 OF 5 LASER
/CCD REDUNDANCY



OFF INDUSTRIAL 2 OF 5 LASER
/CCD REDUNDANCY

CODABAR



ON STAND/END TRANSMISSION



OFF STAND/END TRANSMISSION

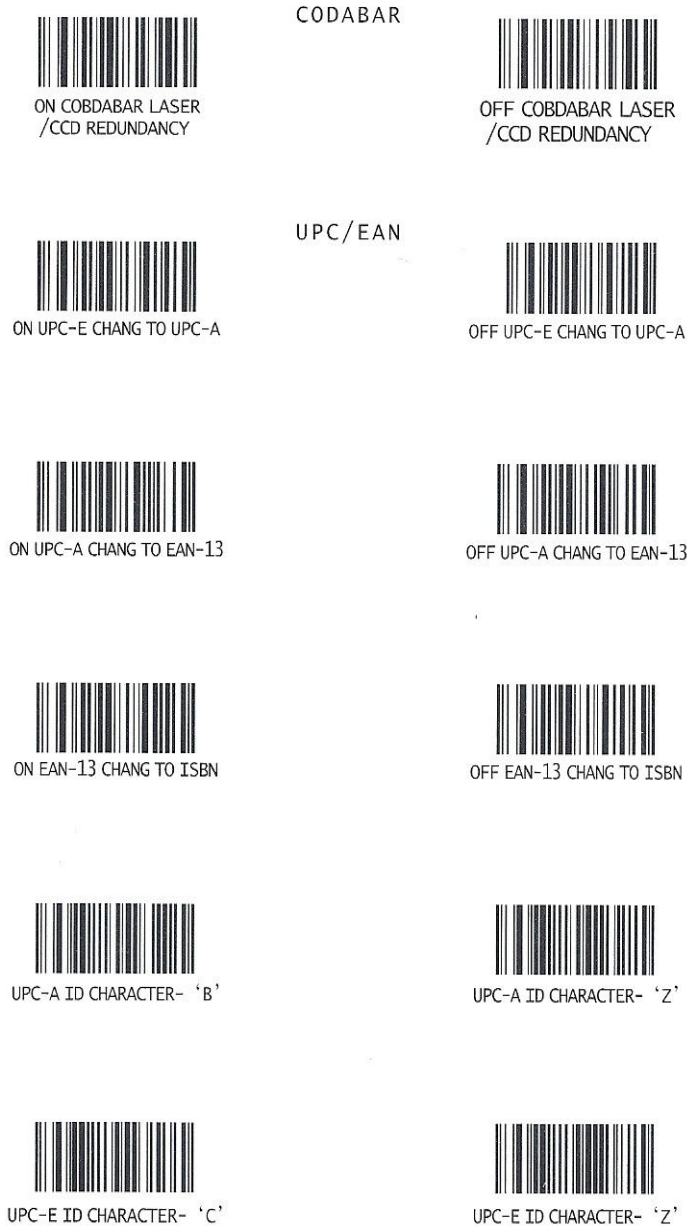


CODE ID CHARACTER- 'K'



CODABAR ID CHARACTER- 'Z'

Barcode Symbol Set Up-4



20

Barcode Symbol Set Up-5



21

Editant Set Up Barcodes



EDIT#1-STRIP 1 LEADING
CHARACTER ON ALL BARCODES
THAT START WITH '12345'



RENEW



EDIT#2-STRIP THE LAST
CHARACTER BARCODER



RENEW



EDIT#1-FILTER LEADING
SPACES



RENEW



EDIT#1-FILTER TRAILING
SPACES



RENEW



EDIT-FILTER ALL '-'
CHARACTERS



RENEW



EDIT-INSERT LEADING ZERO



RENEW

22

MACRO/SPECIAL KEYS SERUP BAR CODES



MACRO#1-FIND '1' AND
REPLACE WITH ONE



MACRO#1-DISABLED



MACRO#1-FIND '2' AND REPLACE
WITH TWO FOR CODE 39 ONLY



MACRO#2-DISABLED



MACRO-FIND '0' AND REPLACE
WITH 'A'



MACRO-FIND '0' AND REPLACE
WITH 'A' -DISABLE



SPECIAL KEY-MAP F3 TO '0'



SPECIAL KEY-DISABLE F3 KEY
MAPPING



SPECIAL KEY-MAP DEYPAD
ENTER TO 2



SPECIAL KEY-DISABLE KEYPAD
ENTER MAPING

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TERMINATION STRING SETUP BAR CODES



STRING #1-TERMINATION CHAR-CR



STRING #1-TERMINATION-LF



STRING #1-TERMINATION-CR+LF



STRING #1-DISABLED



STRING #2-CODE 128
TERMINATION-CR



STRING #2-CODE 128
TERMINATION-LF



STRING #2-CODE 128 TERMINATION
-CR+LF



STRING #2-CODE 128 TERMINATION
-REMOVED



STRING-CODE 39 TERMINATION
CHAR-TAB



STRING-CODE 39 TERMINATION
CHAR-TAB-REMOVED



STRING-ALL CODES PREAMBLE-STX



STRING-ALL CODES POSTAMBLE-ETX

Using the Advanced Setting Mode to setup the barcode scanner.

First, connect the scanner to the computer, then start WORDPAD and scan the barcode shown below (labeled "Advanced Setting Mode"). Once it has been scanned, the setting can be configured using the keyboard.

Once the Advanced Setting Mode barcode has been scanned, the following will be displayed in WORDPAD:

:F1-F0=Options, Use ARROW KEYS to Toggle/Move, ESC=EXIT



Advanced Setting Mode

If you want to entre the advanced setting mode, please scan the above barcode.

Attention: This page is only for the KBW interface scanner.

Setup Category

Key	Category	Options
F1	Interface	Transmit Speed CTRL/Special Char Delay Wedge Interface Send Numerics As Keyboard Country Output Mode Serial Baud Rate Serial Data Bits Stop Bits Serial Parity Serial Duplex Serial Data Format Inverted Serial Output Serial Intercharacter Delay Serial Caps Lock Serial Num Lock Wand Emulation Append Mode Wand Emulation Max Segment Size Wand Emulation Segment Output Delay Setup Mode Lockout
F2	Decoders/Scanner	Decoders On/Off Code 39 UPC/EAN/JAN/Supplements Code 128 Interleaved 2 of 5 Industrial 2 of 5 Codabar Code 93 MSI/Plessey Code 11 Laser/CCD Other
F3	Editing	Edit#1 - Edit#10
F4	Macros/Special Keys	Macro#1-Macro #10 keys
F5	Strings	String#1 - String#10
F6	Reserved	
F7	Buzzer/LED	Power Up Beep Good Read BeepTone Beep Duration No Read LED Delay LED Power Save Mode
F8	Status/Diagnostics	Firmware Version and Release Date Laser/CCD Scanner Testing Keyboard Information Show Scan Codes
F9	Cloning	Lockout Cloned Reader Setup Mode Press ENTER To Begin Cloning
F10	Reset All Defaults?	Reset All Defaults?

26

Editing Keys

For those categories which have more than one option, the UP and DOWN arrow and ENTER keys are used to move from one option to the next. In addition to the UP and DOWN arrow keys, the CTRL UP and CTRL DOWN arrow keys are used to move to the bottom and the top of the list. The following is a list of all special editing keys and a description of their function:

Key	Description
Left Arrow, Right Arrow	Toggles through the settings for the current option.
Up & Down Arrow	Moves from one option to the previous or next within the category or group.
CTRL UP & Down Arrow	Moves to the top or bottom of the category or group.
Home & End	Moves to the beginning or end of an input field.
ALT Backspace	Toggles the output mode during configuration, between destructive backspace and non-destructive backspace. Defaults to non-destructive backspace.
CTRL + Keypad	Increases transmit speed during setup.
CTRL - Keypad	Decreases transmit speed during setup.
CTRL F7	Test the current Beep Tone and Beep Duration
CTRL F10	Resets the current option to the default setting.
SHIFT F10	If you are in a category with groups (F2-F5), SHIFT F10 resets the current group. If you are in a category without groups (F1, F7-F10), SHIFT F10 resets the entire category.
ALT F10	Resets all options in current category to default settings.
CTRL Escape	Exit configuration - saving changes (Permanent).
SHIFT Escape	Exit configuration, saving changes (Temporary)
ALT Escape	Exit configuration - without saving changes.

Note: If you experience some character loss during setup, you may press the CTRL-(Keypad Minus) key to slow character transmission. To speed up character transmission, press the CTRL+(Keypad Plus) key.

Note: After 5 minutes of inactivity (no key presses the decoder will exit setup mode and save all changes.

The following sections document all of the setup mode categories and the groups and individual options within each category. Next to the option name is the default setting for the option. In addition to the default setting, the keys that are used for editing are listed to the right of the option name. The meaning of each of the key icons is as follows:

Key Icon	Meaning
← →	The left and right arrow keys scroll through available settings for the option.
ALT	An ALT keypad sequence may be used to enter characters for the setting.
A S C I I	All ASCII data is valid for the option. All characters are available for entry into the field.
GROUP	Used to indicate that the option represents a group of sub-options. The left and right arrows scroll through the list of option groups. After selecting the option group, up and down arrows are used to configure the sub-options.
OPERATION	Used to indicate that the option represents an edit operation and that all of the options listed below it are specific to that operation until the next operation is defined.
STRING TYPE	Used to indicate that the option represents a string type and that all of the options listed below it are specific to that type of string until the next string type is defined.

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OPTION NUMBERS AND DESCRIPTIONS

; F1-INTERFACE OPTIONS

OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
000	KEYBOARD WEDGE TRANSMIT SPEED	BYTE	0	99	0-FASTEST
001	SPECIAL CHAR TRANSMIT DELAY	BYTE	0	255	50- (MSECS)
002	KEYBOARD WEDGE MODE	4BIT	0	6	0- (AUTODETECT)
003	AUTO-DETECT CAPS LOCK	BIT	0	1	0- (AUTODETECT)
004	NUMERIC KEY OUTPUT MODE	BIT	0	1	0- (MAIN KBD KEYS
005	KEYBOARD COUNTRY	BYIE	0	25	0- (USA)
006	DECODER OUTPUT MODE	4BIT	0	2	0- (KEYBRD WEDGE)
007	SERIAL BAUD RATE	4BIT	0	7	5- (9600)
008	SERIAL DATA BITS	BIT	0	1	1-8BITS
009	SERIAL STOP BITS	BIT	0	1	0-1 STO PBIT
010	SERIAL PARITY	4BIT	0	4	0-NONE
011	SERIAL INTERCHARACTER DELAY	BYIE	0	50	0- (MSECS)
012	SERIAL HANDSHAKE MODE	4BIT	0	3	0-NONE
013	SERIAL HANDSHAKE TIMEOUT	BYIE	0	100	20- (1 SECONDS)
014	CODE 128 WAND EMULATION	4BIT	0	1	0- (DISABLED)
015	WAND EMULATION OUTPUT SPEED	4BIT	0	3	2- (SLOW)
016	WAND EMULATION BAR MODE	BIT	0	1	1- (BAR=1)
017	RESERVED				
018	RESERVED				
019	RESERVED				
020	RESERVED				
021	PROGRAM MODE LOCKOUT	BIT	0	1	0-DISABLED

; F2-Code39 OPTIONS

OPTION

OPTION	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
022	Code39 DECODER	BIT	0	1	1-ENABLED
023	FULL ASCII	BIT	0	1	0-DISABLED
024	MODULO 43 CHECK DIGIT	BIT	0	1	0-DISABLED
025	SEND CHECK DIGIT	BIT	0	1	0-DISABLED
026	APPEND MODE	BIT	0	1	0-DISABLED
027	SECONDARY START/STOP CHARS	4BIT	0	1	0-NONE
028	SEND START/STOP CHARS	BIT	0	1	0-DISABLED
029	MAXIMUM LENGTH	BYTE	0	49	49
030	MINIMUM LENGTH	BYTE	0	49	0
031	ID CHARACTER	CHAR	1	1	'a'
032	CONTROL CHARACTER OVERRIDE	BIT	0	1	0
033	LASER/CCD REDUNDANCY	BIT	0	1	0

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; F2-UPC/EAN OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
034	UPC-A DECODER	BIT	0	1	1-ENABLED
035	UPC-E DECODER	BIT	0	1	1-ENABLED
036	EAN/JAN-13 DECODER	BIT	0	1	1-ENABLED
037	EAN/JAN-8 DECODER	BIT	0	1	1-ENABLED
038	EXPAND UPC-E TO UPC-A	BIT	0	1	1-ENABLED
039	EXPAND UPC-A TO EAN-13	BIT	0	1	1-ENABLED
040	SEND UPC-A NUMBER SYSTEM CHAR	BIT	0	1	1-ENABLED
041	SEND UPC-E NUMBER SYSTEM CHAR	BIT	0	1	1-ENABLED
042	SEND UPC-A CHECK DIGIT	BIT	0	1	1-ENABLED
043	SEND UPC-E CHECK DIGIT	BIT	0	1	1-ENABLED
044	SEND EAN-13 COUNTRY CODE	BIT	0	1	1-ENABLED
045	SEND EAN-8 COUNTRY CODE	BIT	0	1	1-ENABLED
046	SEND EAN-13 CHECK DIGIT	BIT	0	1	1-ENABLED
047	SEND EAN-8 CHECK DIGIT	BIT	0	1	1-ENABLED
048	CONVERT EAN-13 TO ISBN	BIT	1	1	0-DISABLED
049	UPC-AID CHARACTER	CHAR	1	1	'b'
050	UPC-EID CHARACTER	CHAR	1	1	'c'
051	EAN-13ID CHARACTER	CHAR	1	1	'e'
052	EAN-8ID CHARACTER	CHAR	1	1	'd'
053	ISBN ID CHARACTER	CHAR	1	1	'f'
054	LASER/CCD REDUNDANCY	BIT	0	1	0-DISABLED

; F2-UPC/EAN SUPPLEMENTS OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
055	UPC/EAN SUPPLEMENTS DECODER	2BIT	0	3	0-DISABLED
056	UPC-A SUPPLEMENTS	2BIT	0	2	1-OPTIONAL
057	UPC-E SUPPLEMENTS	2BIT	0	2	1-OPTIONAL
058	EAN-13 SUPPLEMENTS	2BIT	0	2	1-OPTIONAL
059	EAN-8 SUPPLEMENTS	2BIT	0	2	1-OPTIONAL
060	ISBN SUPPLEMENTS	2BIT	0	2	1-OPTIONAL
061	SUPPLEMENTS SEPARATOR	STRING	0	9	NONE

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FARIMEX
POLSKA

: F2-CODE-93 OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
062	Code 93 DECODER	BIT	0	1	1-ENABLED
063	APPEND MODE	BIT	0	1	0-DISABLED
064	MAXIMUM LENGTH	BYTE	0	81	81
065	MINIMUM LENGTH	BYTE	0	81	0
066	ID CHARACTER	CHAR	1	1	'h'
067	CONTROL CHARACTER OVERRIDE	BIT	0	1	0-DISABLED
068	LASER/CCD REDUNDANCY	BIT	0	1	0-DISABLED

: F2-CODE 128 OPTIONS

OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
069	CODE128 DECODER	BIT	0	1	1-ENABLED
070	ISBT DECODER	BIT	0	1	0-DISABLED
071	ISBT CONCATENATION PAIRS	STRING	0	4	NONE
072	ISBT PAIR #1	STRING	0	4	NONE
073	ISBT PAIR #2	STRING	0	4	NONE
074	ISBT PAIR #3	STRING	0	4	NONE
075	ISBT PAIR #4	STRING	0	4	NONE
076	ISBT PAIR #5	STRING	0	4	NONE
077	ISBT PAIR #6	STRING	0	4	NONE
078	FIELD SEPARATOR CHARACTER	CHAR	1	1	01DH (ASCH 'GS')
079	MAXIMUM LENGTH	BYIE	0	164	164
080	MINIMUM LENGTH	BYIE	0	164	0
081	ID CHARACTER	CHAR	1	1	'g'
082	UCC/EAN OUTPUT PREFIX	SRTING	0	3	NONE
083	CONTROL CHARACTER OVERRIDE	BIT	0	1	0-DISABLED
084	LASER/CCD REDUNDANCY	BIT	0	1	0-DISABLED

: F2-CODABAR OPTIONS

OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
085	CODABAR DECODER	BYTE	0	1	1-ENABLED
086	SEND START/STOP CHARACTERS	2BIT	0	3	0-DISABLED
087	CHECK DIGIT	2BIT	0	2	0-DISABLED
088	SEND CHECK DIGIT	BIT	0	1	0-DISABLED
089	CLS1 FORMATTING	BIT	0	1	0-DISABLED
090	WIDE INTERCHARACTER GAPS	BIT	0	1	0-DISABLED
091	ABC CONCATENATION	BIT	0	1	0-DISABLED
092	MAXIMUM LENGTH	BYTE	1	62	62
093	MINIMUM LENGTH	BYTE	1	62	1
094	ID CHARACTER	CHAR	1	1	'k'
095	LASER/CCD REDUNDANCY	BIT	0	1	0-DISABLED

: F2-INTERLEAVED 2 OF 5 OPTIONS

OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
096	12 of 5 DECODER	BIT	0	1	1-ENABLED
097	CHECK DIGIT	BIT	0	2	0-DISABLED
098	SEND CHECK DIGIT	BIT	0	1	0-DISABLED
099	MAXIMUM LENGTH	BYTE	0	100	100
100	MINIMUM LENGTH	BYTE	0	100	0
101	FIXED LENGTH	BIT	0	1	0-DISABLED
102	FIXED LENGTH SIZE #1	BYTE	2	100	6
103	FIXED LENGTH SIZE #2	BYTE	2	100	14
104	ID CHARACTER	CHAR	1	1	'i'
105	LASER/CCD REDUNDANCY	BIT	0	1	1-ENABLED

: F2-INDUSTRIAL 2 OF 5 OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
106	INDUSTRIAL 2 OF 5 DECODER	BIT	0	1	1-ENABLED
107	START/STOP CHARACTERS	BIT	0	1	0-3 BAR START/STOP
108	MAXIMUM LENGTH	BYTE	2	49	49
109	MINIMUM LENGTH	BYTE	2	49	2
110	FIXED LENGTH	BIT	0	1	0-DISABLED
111	FIXED LENGTH SIZE #1	BYTE	2	49	6
112	FIXED LENGTH SIZE #2	BYTE	2	49	10
113	ID CHARACTER	CHAR	1	1	'i'
114	LASER/CCD REDUNDANCY	BIT	0	1	1-ENABLED

: F2-MSI OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
115	MSI DECODER	BIT	0	1	1-ENABLED
116	CHECK DIGITS	2BIT	0	2	0-MOD 10
117	SEND CHECK DIGIT	2BIT	0	2	0-DISABLED
118	ISBN DECODER	BIT	0	1	0-DISABLED
119	MAXIMUM LENGTH	BYTE	3	63	63
120	MINIMUM LENGTH	BYTE	3	63	3
121	FIXED LENGTH	BIT	0	3	0-DISABLED
122	FIXED LENGTH SIZE #1	BYTE	3	63	6
123	FIXED LENGTH SIZE #2	BYTE	3	63	14
124	ID CHARACTER	CHAR	1	1	'i'
053	ISBN ID CHARACTER	(USES SAME ID AS ISBN IN UPC/EAN)			
125	LASER/CCD REDUNDANCY	BIT	0	1	1-ENABLED

; F2-CODE 11 OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
126	CODE 11 DECODER	BIT	0	1	1-ENABLED
127	CHECK DIGIT	BIT	0	1	0-MOD 11
128	SEND CHECK DIGITS	2BIT	0	2	0-DISABLED
129	MAXIMUM LENGTH	BYTE	2	83	83
130	MINIMUM LENGTH	BYTE	2	83	2
131	ID CHARACTER	CHAR	1	1	'M'
132	LASER/CCD REDUNDANCY	BIT	0	1	0-DISABLED

; F2-LASER/CCD OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
133	OPERATING MODE	4BIT	0	5	0-SINGLE SCAN
134	TIMEOUT	BYTE	1	12	2- (2 SECONDS)
135	PULSE RATE	4BIT	2	7	3
136	PULSE TO CONTINUOUS THRESHOLD	BYTE	0	255	0-OFF
137	DUPLICATE READ DELAY	BYTE	0	127	5- (5 SECONDS)

; F2-OTHER DECODING OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
138	QUIET ZONES (MARGINS)	BIT	0	1	1-LARGE
139	REVERSE IMAGE DECODING	BIT	0	1	0-DISABLED
140	SEND BAR CODE TYPE ID	BIT	0	1	0-DISABLED

; F7-DEFINE THE BUZZER AND LED OPTIONS

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
141	POWER UP BEEP	BIT	0	1	1-ENABLED
142	GOOD READ BEEP TONE 4BIT	4BIT	0	5	2-MEDIUM
143	GOOD READ BEEP DURATION	BYTE	0	2	2-MEDIUM
144	NO READ LED DELAY	BYTE	0	65	20-(2.0 SECONDS)
145	LED POWER SAVE MODEBIT	BIT	0	1	0-DISABLED

; F4-DEFINE THE MACRO KEY MAPPING OPTIONS - MAP THE KEY TO A CHARACTER THAT CAN BE PRODUCED IN A BAR CODE SO THAT WHEN THE BAR CODE IS SCANNED - THE SPECIAL KEY IS OUTPUT.

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
160	F1 MACRO	BYTE	0	255	255-OFF
161	F2 MACRO	BYTE	0	255	255-OFF
162	F3 MACRO	BYTE	0	255	255-OFF
163	F4 MACRO	BYTE	0	255	255-OFF
164	F5 MACRO	BYTE	0	255	255-OFF
165	F6 MACRO	BYTE	0	255	255-OFF
166	F7 MACRO	BYTE	0	255	255-OFF
167	F8 MACRO	BYTE	0	255	255-OFF
168	F9 MACRO	BYTE	0	255	255-OFF
169	F10 MACRO	BYTE	0	255	255-OFF
170	F11 MACRO	BYTE	0	255	255-OFF
171	F12 MACRO	BYTE	0	255	255-OFF
172	INSERT KEY MACRO	BYTE	0	255	255-OFF
173	DELETEQ KEY MACRO	BYTE	0	255	255-OFF
174	HOME KEY MACRO	BYTE	0	255	255-OFF
175	END KEY MACRO	BYTE	0	255	255-OFF
176	PAGE UP KEY MACRO	BYTE	0	255	255-OFF
177	PAGE DOWN KEY MACRO	BYTE	0	255	255-OFF
178	LEFT ARROW KEY MACRO	BYTE	0	255	255-OFF
179	RIGHT ARROW KEY MACRO	BYTE	0	255	255-OFF
180	UP ARROW KEY MACRO	BYTE	0	255	255-OFF
181	DOWN ARROW KEY MACRO	BYTE	0	255	255-OFF
182	KEY PAD ENTER KEY MACRO	BYTE	0	255	255-OFF
183	ALT KEY MAKE MACRO	BYTE	0	255	255-OFF
184	ALT KEY BREAK MACRO	BYTE	0	255	255-OFF
185	CTRL KEY MAKE MACRO BYTE	BYTE	0	255	255-OFF
186	CTRL KEY BREAK MACRO	BYTE	0	255	255-OFF
187	SHIFT KEY MAKE MACRO	BYTE	0	255	255-OFF
188	SHIFT KEY BREAK MACRO	BYTE	0	255	255-OFF

;F3- EDIT SETUP BAR CODE

OPTION					
NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
200	MACRO OPTION	SEE BELOW			DISABLED
MACRO BAR CODE DATA FORMAT:					
2 DIGIT MACRO # (00-10)					
00— WILL AUTOMATICALLY SELECT THE FIRST AVAILABLE EDIT#					
2 DIGIT ACTIVE FOR TYPE (1-9)					
00—OFF					
01—STRIP LEADING CHARACTERS					
02—STRIP TRAILING CHARACTERS					
03—FILTER LEADING CHARACTERS					
04—FILTER TRAILING CHARACTERS					
05—FILTER CHARACTERS					
06—INSERT LEADING CHARACTERS					
07—INSERT TRAILING CHARACTERS					
08—CONVERT TO UPPERCASE					
09—CONVERT TO LOWERCASE					
2 DIGIT ACTIVE FOR TYPE (00-14)					
00—ALL BAR CODE TYPES					
01—ALL BAR CODE TYPES ALWAYS					
02—CODE 39					
03—UPC-A					
04—UPC-E					
05—EAN-13					
06—EAN-8					
07—ISBN					
08—CODE 128					
09—I 20F5					
10—CODABAR					
11—CODE 93					
12—MSI					
13—CODE 11					
14—INDUSTRIAL 2 OF 5					
2 DIGIT ACTIVE FOR SIZE (00-99)					
3 DIGIT BYTE 1 VALUE					
3 DIGIT BYTE 2 VALUE					
3 DIGIT BYTE 3 VALUE					
3 DIGIT CONTAINS OFFSET					
000=START CHARACTER+0 000-255					
255=END CHARACTER-0					
5 CHARACTER CONTAINS STRING -UP TO 5 CHARS					

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;F4- MACRO SETUP BAR CODE

OPTION					
NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
201	MACRO OPTION	SEE BELOW			
MACRO BAR CODE DATA FORMAT:					
2 DIGIT MACRO # (00-10)					
00—WILL AUTOMATICALLY SELECT THE FIRST AVAILABLE MACRO#					
2 DIGIT ACTIVE FOR TYPE (00-15)					
00—NONE					
01—ALL BAR CODE TYPES					
02—ALL BAR CODE TYPES ALWAYS					
03—CODE 39					
04—UPC-A					
05—UPC-E					
06—EAN-13					
07—EAN-8					
08—ISBN					
09—CODE 128					
10—I20F5					
11—CODABAR					
12—CODE-93					
13—MSI					
14—CODE 11					
15—INDUSTRIAL 2 OF 5					

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;F5-STRING SETUP BAR CODE

OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
202	STRING OPTION				\$OD(CR)
	STRING BAR CODE DATA FORMAT:				
	2 DIGIT STRING# (00-10)				
		00-WILL AUTOMATICALLY SELECT THE FIRST AVAILABLE STRING#			
	1 DIGIT STRING TYPE (0-3)				
		0-OFF			
		1-TERMINATION			
		2-PREAMBLE			
		3-POSTAMBLE			
	2 DIGIT ACTIVE FOR TYPE (00-14)				
		00-ALL BAR CODE TYPES			
		01-ALL BAR CODE TYPES ALWAYS			
		02-CODE 39			
		03-UPC-A			
		04-UPC-E			
		05-EAN-13			
		06-EAN-8			
		07-ISBN			
		08-CODE 128			
		09-I2OF5			
		10-CODABAR			
		11-CODE 93			
		12-MSI			
		13-CODE 11			
		14-INDUSTRIAL 2 OF 5			
	1 DIGIT SCAN DIRECTION (0-2)				
		0-ANY DIRECTION			
		1-FORWARD SCAN			
		2-REVERSE SCAN			
	30 CHARACTER STRING TEXT - UP TO 30 CHARACTERS				

Appendix-A Special Characters

Special Characters Table

The Special Characters Table is a list of all of the characters that can be entered with the \$ special character designator. The \$ special character can be used in any of the string inputs in the decoder. Locate the key that you want to embed and enter the value in the Hex column of the table.

Hex	Dec	Description	Hex	Dec	Description	Hex	Dec	Description
\$00	0	NUL(CTRL @)	\$81	129	F2	\$A3	163	5 Keypad
\$01	1	SOH(CTRL A)	\$82	130	F3	\$A4	164	6 Keypad
\$02	2	STX(CTRL B)	\$83	131	F4	\$A5	165	7 Keypad
\$03	3	ETX(CTRL C)	\$84	132	F5	\$A6	166	8 Keypad
\$04	4	EOT(CTRL D)	\$85	133	F6	\$A7	167	9 Keypad
\$05	5	ENQ(CTRL E)	\$86	134	F7	\$A8	168	Insert Keypad
\$06	6	ACK(CTRL F)	\$87	135	F8	\$A9	169	Delete Keypad
\$07	7	BEL(CTRL G)	\$88	136	F9	\$AA	170	Home Keypad
\$08	8	BS(Backspace)	\$89	137	F10	\$AB	171	End Keypad
\$09	9	HT(Tab)	\$8A	138	F11	\$AC	172	Page Up Keypad
\$0A	10	LF(CTRL J)	\$8B	139	F12	\$AD	173	Page Down Keypad
\$0B	11	VT(CTRL K)	\$8C	140	Left Shift Make	\$AE	174	Up Arrow Keypad
\$0C	12	FF(CTRL L)	\$8D	141	Left Shift Break	\$AF	175	Down Arrow Keypad
\$0D	13	CR(Enter)	\$8E	142	Right Shift Make	\$B0	176	Left Arrow Keypad
\$0E	14	SO(CTRL N)	\$8F	143	Right Shift Break	\$B1	177	Right Arrow Keypad
\$0F	15	SI(CTRL O)	\$90	144	Left ALT Make	\$B2	178	Center Keypad
\$10	16	DLE(CTRL P)	\$91	145	Left ALT Break	\$B3	179	Insert
\$11	17	DC1(CTRL Q)	\$92	146	Right ALT Make	\$B4	180	Delete
\$12	18	DC2(CTRL R)	\$93	147	Right ALT Break	\$B5	181	Home
\$13	19	DC3(CTRL S)	\$94	148	Left Control Make	\$B6	182	End
\$14	20	DC4(CTRL T)	\$95	149	Left Control Break	\$B7	183	Page Up
\$15	21	NAK(CTRL U)	\$96	150	Right Control Make	\$B8	184	Page Down
\$16	22	SYN(CTRL V)	\$97	151	Right Control Break	\$B9	185	Up Arrow
\$17	23	ETB(CTRL W)	\$98	152	/ Keypad	\$BA	186	Down Arrow
\$18	24	CAN(CTRL X)	\$99	153	* Keypad	\$BB	187	Left Arrow
\$19	25	EM(CTRL Y)	\$9A	154	- Keypad	\$BC	188	Right Arrow
\$1A	26	SUB(CTRL Z)	\$9B	155	+ Keypad	\$BD	189	
\$1B	27	ESC(ESC)	\$9C	156	- Keypad	\$BE	190	Num Lock
\$1C	28	FS(CTRL I)	\$9D	157	Enter Keypad	\$BF	191	Caps Lock
\$1D	29	GS(CTRL J)	\$9E	158	0 Keypad	\$C0	192	Scroll Lock
\$1E	30	RS(CTRL *)	\$9F	159	1 Keypad	\$C1	193	Print Screen
\$1F	31	US(CTRL _)	\$A0	160	2 Keypad	\$C2	194	Pause
\$7F	127	DEL(CTRL BkSpc)	\$A1	161	3 Keypad			
\$80	128	F1	\$A2	162	4 Keypad			

ALT Keypad Table

The # designator is used to output any character value between 1 and 255. The following table shows the keypad sequence sent to the computer for the # sequence entered. The actual character displayed will depend upon on the software running and the country setting of your computer. In some cases, no actual character is displayed.

Hex	Keypad	Hex	Keypad	Hex	Keypad	Hex	Keypad	Hex	Keypad	Hex	Keypad	Hex	Keypad
#01	ALT 001	#26	ALT 038	#4B	ALT 075	#70	ALT 112	#95	ALT 149	#BA	ALT 186	#DF	ALT 223
#02	ALT 002	#27	ALT 039	#4C	ALT 076	#71	ALT 113	#96	ALT 150	#BB	ALT 187	#E0	ALT 224
#03	ALT 003	#28	ALT 040	#4D	ALT 077	#72	ALT 114	#97	ALT 151	#BC	ALT 188	#E1	ALT 225
#04	ALT 004	#29	ALT 041	#4E	ALT 078	#73	ALT 115	#98	ALT 152	#BD	ALT 189	#E2	ALT 226
#05	ALT 005	#2A	ALT 042	#4F	ALT 079	#74	ALT 116	#99	ALT 153	#BE	ALT 190	#E3	ALT 227
#06	ALT 006	#2B	ALT 043	#50	ALT 080	#75	ALT 117	#9A	ALT 154	#BF	ALT 191	#E4	ALT 228
#07	ALT 007	#2C	ALT 044	#51	ALT 081	#76	ALT 118	#9B	ALT 155	#C0	ALT 192	#E5	ALT 229
#08	ALT 008	#2D	ALT 045	#52	ALT 082	#77	ALT 119	#9C	ALT 156	#C1	ALT 193	#E6	ALT 230
#09	ALT 009	#2E	ALT 046	#53	ALT 083	#78	ALT 120	#9D	ALT 157	#C2	ALT 194	#E7	ALT 231
#0A	ALT 010	#2F	ALT 047	#54	ALT 084	#79	ALT 121	#9E	ALT 158	#C3	ALT 195	#E8	ALT 232
#0B	ALT 011	#30	ALT 048	#55	ALT 085	#7A	ALT 122	#9F	ALT 159	#C4	ALT 196	#E9	ALT 233
#0C	ALT 012	#31	ALT 049	#56	ALT 086	#7B	ALT 123	#A0	ALT 160	#C5	ALT 197	#EA	ALT 234
#0D	ALT 013	#32	ALT 050	#57	ALT 087	#7C	ALT 124	#A1	ALT 161	#C6	ALT 198	#EB	ALT 235
#0E	ALT 014	#33	ALT 051	#58	ALT 088	#7D	ALT 125	#A2	ALT 162	#C7	ALT 199	#EC	ALT 236
#0F	ALT 015	#34	ALT 052	#59	ALT 089	#7E	ALT 126	#A3	ALT 163	#C8	ALT 200	#ED	ALT 237
#10	ALT 016	#35	ALT 053	#5A	ALT 090	#7F	ALT 127	#A4	ALT 164	#C9	ALT 201	#EE	ALT 238
#11	ALT 017	#36	ALT 054	#5B	ALT 091	#80	ALT 128	#A5	ALT 165	#CA	ALT 202	#EF	ALT 239
#12	ALT 018	#37	ALT 055	#5C	ALT 092	#81	ALT 129	#A6	ALT 166	#CB	ALT 203	#F0	ALT 240
#13	ALT 019	#38	ALT 056	#5D	ALT 093	#82	ALT 130	#A7	ALT 167	#CC	ALT 204	#F1	ALT 241
#14	ALT 020	#39	ALT 057	#5E	ALT 094	#83	ALT 131	#A8	ALT 168	#CD	ALT 205	#F2	ALT 242
#15	ALT 021	#3A	ALT 058	#5F	ALT 095	#84	ALT 132	#A9	ALT 169	#CE	ALT 206	#F3	ALT 243
#16	ALT 022	#3B	ALT 059	#60	ALT 096	#85	ALT 133	#AA	ALT 170	#CF	ALT 207	#F4	ALT 244
#17	ALT 023	#3C	ALT 060	#61	ALT 097	#86	ALT 134	#AB	ALT 171	#D0	ALT 208	#F5	ALT 245
#18	ALT 024	#3D	ALT 061	#62	ALT 098	#87	ALT 135	#AC	ALT 172	#D1	ALT 209	#F6	ALT 246
#19	ALT 025	#3E	ALT 062	#63	ALT 099	#88	ALT 136	#AD	ALT 173	#D2	ALT 210	#F7	ALT 247
#1A	ALT 026	#3F	ALT 063	#64	ALT 100	#89	ALT 137	#AE	ALT 174	#D3	ALT 211	#F8	ALT 248
#1B	ALT 027	#40	ALT 064	#65	ALT 101	#8A	ALT 138	#AF	ALT 175	#D4	ALT 212	#F9	ALT 249
#1C	ALT 028	#41	ALT 065	#66	ALT 102	#8B	ALT 139	#B0	ALT 176	#D5	ALT 213	#FA	ALT 250
#1D	ALT 029	#42	ALT 066	#67	ALT 103	#8C	ALT 140	#B1	ALT 177	#D6	ALT 214	#FB	ALT 251
#1E	ALT 030	#43	ALT 067	#68	ALT 104	#8D	ALT 141	#B2	ALT 178	#D7	ALT 215	#FC	ALT 252
#1F	ALT 031	#44	ALT 068	#69	ALT 105	#8E	ALT 142	#B3	ALT 179	#D8	ALT 216	#FD	ALT 253
#20	ALT 032	#45	ALT 069	#6A	ALT 106	#8F	ALT 143	#B4	ALT 180	#D9	ALT 217	#FE	ALT 254
#21	ALT 033	#46	ALT 070	#6B	ALT 107	#90	ALT 144	#B5	ALT 181	#DA	ALT 218	#FF	ALT 255
#22	ALT 034	#47	ALT 071	#6C	ALT 108	#91	ALT 145	#B6	ALT 182	#DB	ALT 219		
#23	ALT 035	#48	ALT 072	#6D	ALT 109	#92	ALT 146	#B7	ALT 183	#DC	ALT 220		
#24	ALT 036	#49	ALT 073	#6E	ALT 110	#93	ALT 147	#B8	ALT 184	#DD	ALT 221		
#25	ALT 037	#4A	ALT 074	#6F	ALT 111	#94	ALT 148	#B9	ALT 185	#DE	ALT 222		

 Note The char #00 cannot be output as an ALT Keypad character.

Appendix-C Troubleshooting and Error Beeps

Problem: The LED without light, without buzz, without laser.

Cause: The power supply for scanner off, or the wire interface become flexible.

Solution: Check the power supply, make sure the power supply on work. Re-connect the scanner and the computer again by wire.

Problem: After scan, no data be transmitted.

Cause: The scanner's setup is incorrect.

Solution: Make sure the scanner's setup is in the correct mode.

Problem: No power supply startup buzz when the interface reader connect to the computer.

Cause: The interface reader won't offer the power supply.

Solution: Use a direct with 5V to connect up.

Problem: After connect the interface scanner, no data transmit when reading the bar code.

Cause: Haven't setup the interface mode or the communication agreement incorrect.

Solution: Setup the interface scanner mode. Or re-set up the correct communication agreement.

Problem: The scanner reader is normal, but without buzz.

Cause: The incorrect setup, which setup in aphonia.

Solution: Scan the barcode of the startup voice.

Problem: Scan some of the barcode with buzz, but without the buzz when scan other barcode which in the same mode system.

Cause: The barcode be damaged or there some problems with the barcode printing.

Solution: Check the barcode whether be damaged with carefulness. And check other barcode to find whether there are different to the same barcode system. Check the printer mode. Changed the setup of printer.

Problem: Other complexion or can't read the barcode.

Solution: Close the computer, re-connect the barcode scanner with the computer and keyboard, then turn on the computer power supply and check it; if still couldn't solve the problems, please contact with the dealer of the produce company.