

User's Manual

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Barcode Scanner
V1.0

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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 activator, Then aimed at the bar code which need to scan, the scanner scan automatically, the information will transmit to the host computer system.

There are two mode for this produce : handheld and automatic sensing 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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Features:

- * Simple installation ,keyboard Wedge Serial , Wand Emulation tc
- * Superior keyboard wedge interface . NOVELL compatible auto Caps lock detection ensures that the data always appears on the computer just the way it encoded in the bar code
- * Simple programming from your keyboard or scan bar codes!
- * Over 180 configurable options
- * Automatically clones decoders in under 10 seconds . over 300 decoders per hour
- * Auto detection of the type of computer (PC, XT,AT,PS/2,and XWindow terminals with a PC Compatible keyboard interface)
- * Can be used with or without the keyboard
- * Supports over twenty different keyboard country layouts
- * Map bar code data to any key on the keyboard
- * Supports editing operations include (Insert stripping Filtering Convert Case)
- * Macro support replace a string in the bar code with another
- * Programmable preamble postamble and termination strings
- * READ/NO-READ indicators (buzzer and LED)
- * Superior reading performance utilizing advanced decoding algorithms
- * Extended ASCII support for Code 128 bar codes
- * Low power consumption

Using The Setup Mode To Configure The Decoder

The decoder can be configured through the use of the computer keyboard . The decoder must be installed and powered to enter the setup mode Once the unit is powered up press and hold the following keys :

Left-Control ,Caps Lock, Right-Shift ,and Backspace1
-or-
Left-Control,F2,Right-Shift,and Backspace2

Once you release the keys , the decoder will produce a series of beeps , change the LED to orange and display a message similar to the following on your display :

F1-F10=Options. Use ARROWKEYS to Toggle/Move ,ESC=Exit

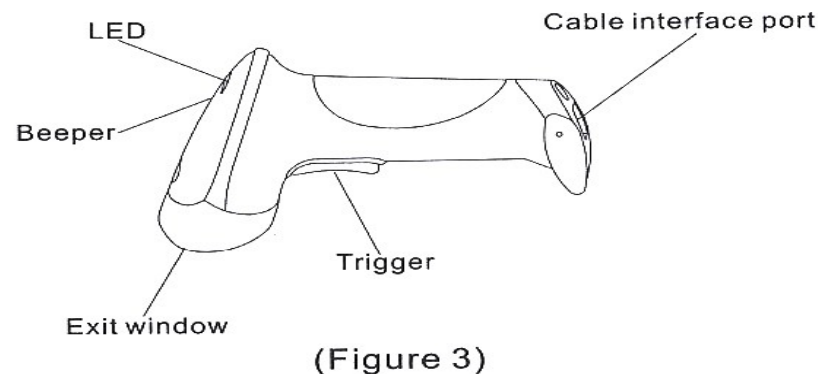
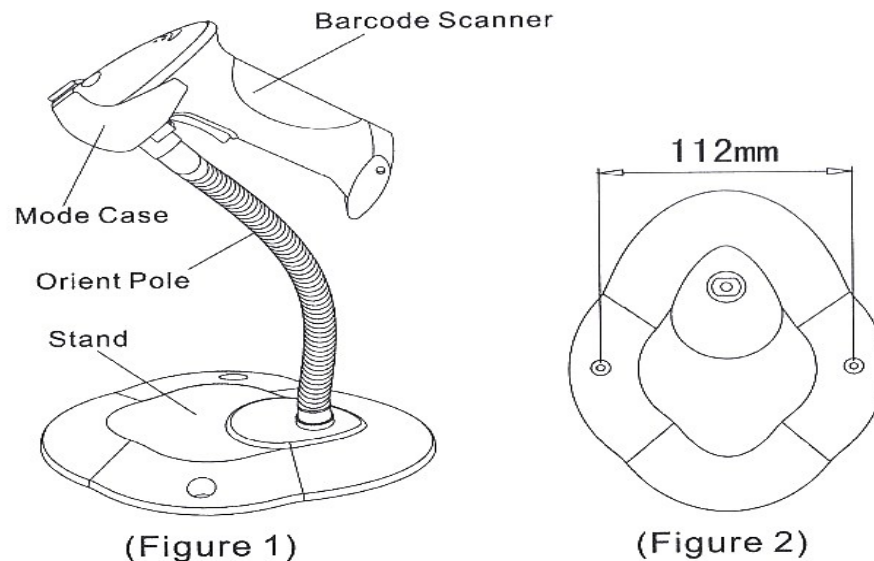
To ensure that you have enough space on your command line for the decoder options to be displayed we Recommend that you either have your command prompt located at the root directory or that you load an editor with a new file. This will allow the decoder to use most of the characters on your computer display. For example, in Windows load Windows Write and in OS/2 load the Notepad program.

Note : In addition to using your keyboard to enter Setup Mode you may scan the bar code below



Note: This page is only for KBW interface reader, never execute any action if you are using Rs232 interface reader

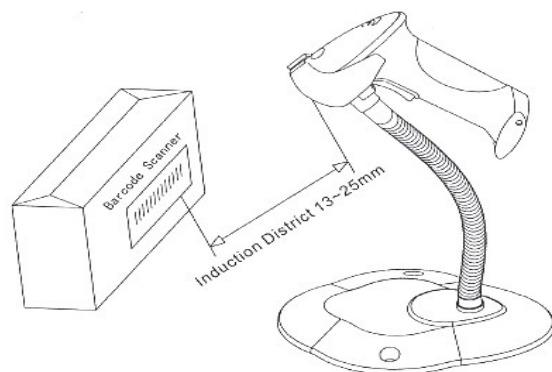
Barcode scanner appearance installing:



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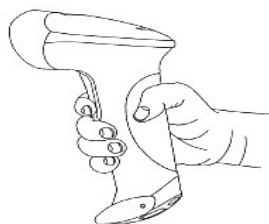
Auto-induction Barcode scanner Operating Instructions:

- 1、 Between the scanner and the object's distance is 13~25mm (figure 4)
- 2、 The auto-induction barcode scanner default the auto-induction pattern 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 1~3 seconds, when the object leave the induction zone, the near the induction again to carry on reading barcode second time! (figure 4)



(Figure 4)

- 3、 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 come back Auto-induction reading code function (figure 5)



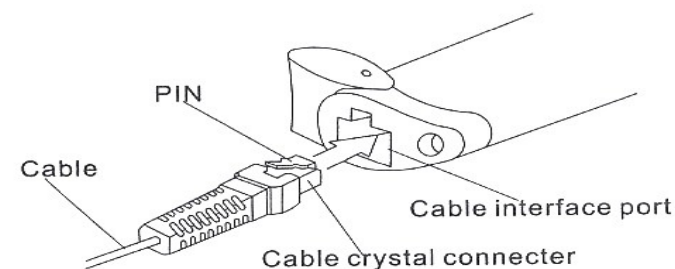
(Figure 5)

- 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 6 just for the Auto-induction Barcode scanner.

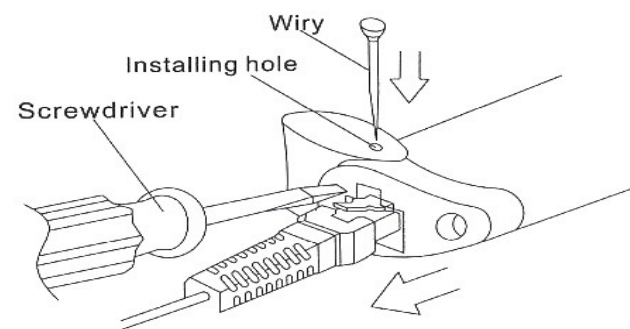
Barcode scanner installing and removing:

- 1、 Installing the interface cable. (Figure 6):
 - 1.1) Plug the interface cable modular connector into the cable interface port on the bottom of the scanner handle.
 - 1.2) Gently tug the cable to ensure the connector is properly secured.
 - 1.3) Connect the other end of the interface cable to the host.



(Figure 6)

- 2、 Removing the interface cable. (Figure 7):
 - 2.1) Unplug the installed cable's modular connector by depressing the connector clip with the tip of a screwdriver or wire.
 - 2.2) Carefully slide out the cable.
 - 2.3) Follow the steps for Installing the Interface Cable on page 5~6 to connect new cable.



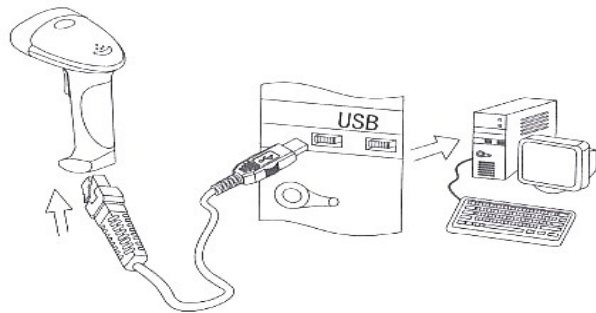
(Figure 7)

Barcode scanner Cable Connection:

USB Cable Connection(Figure 7):

Scanner Connects with USB cable hosts.

1. Connect the USB interface cable to 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.

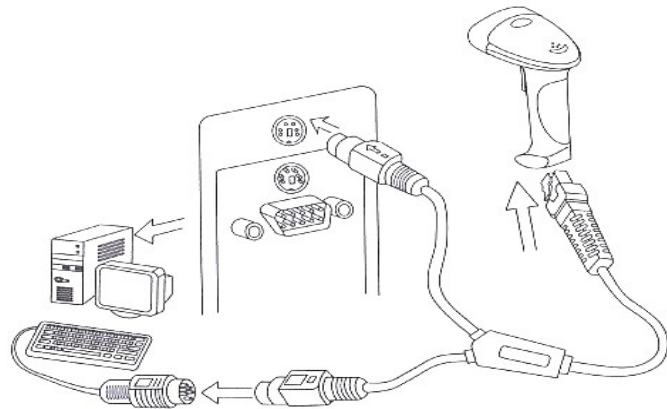


(Figure 7)

Keyboard(PS/2) Cable Connection(Figure 8):

Keyboard Wedge Connects 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.

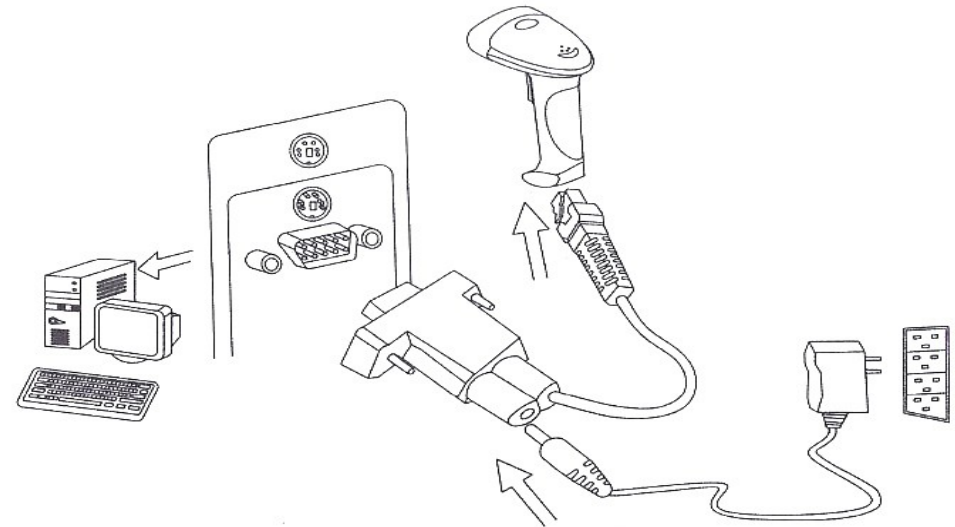


(Figure 8)

RS-232 Cable Connection(Figure 9):

Scanner connects with RS-232 cable hosts.

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 9)

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RESET MODE



RESET CONFIGURATION TO DEFAULTS

NOTE: ALL THE PARAMETER WILL COME BACK THE
MANUFACTURER SETTING



OUTPUT FIRMWARE VERSION



OUTPUT KBW MODE



OUTPUT MODE - SERIAL

KBW LANGUAGE



KEYBOARD COUNTRY-USA



KEYBOARD COUNTRY-GERMAN



KEYBOARD COUNTRY-FRANCE



KEYBOARD COUNTRY-UNIVERSAL

Multiscan Functions-1

READING MODE



LASER/CCD MODE-AUTOMATIC
CONTINUOUS SCAN



LASER/CCD MODE-AUTOMATIC
TWINKLE



LASER/CCD MODE-RESET



LASER/CCD MODE-SINGLE SCAN
NO TRIGGER



LASER/CCD MODE-MULTISCAN



LASER/CCD MODE-MULTISCAN
NO TRIGGER



OUTPUT MODE-WAND
EMULATION



OUTPUT MODE - RESET



OUTPUT MODE-OCIA



OUTPUT MODE-MAC



MUTE



TURN ON

BUZZER

Multiscan Functions-2

IMAGE



DECODE OPTIONS REVERSE
IMAGE-ENABLE



DECODE OPTIONS REVERSE
IMAGE-DISABLE

CODE ID



DECODE OPTIONS SEND BAR
CODE ID-DISABLE



DECODE OPTIONS SEND BAR
CODE ID-AS A PREFIX



DECODE OPTIONS SEND BAR
CODE ID-RESET



DECODE OPTIONS SEND BAR
CODE ID-AS A SUFFIX

PC INPUT MODE



WEDGE MODE-AUTODETECT



WEDGE MODE-SCAN
SET2PASS THRU

TRANSMIT SPEED



TRANSMIT SPEED - 0



TRANSMIT SPEED - 25

Interface-Serial-1

BAUD RATE



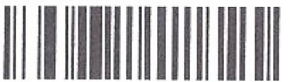
SERIAL BAUD RATE-2400



SERIAL BAUD RATE-9600
(DEFAULT)



SERIAL HANDSHAKE-NONE



SERIAL HANDSHAKE-RTS/CTS



SERIAL HANDSHAKE
TIMEOUT-2 SECONDS



WAND EMULATION-BAR=1(HIGH)

BAR LEVEL



WAND EMULATION-BAR=0(LOW)



SERIAL BAUD RATE-4800



SERIAL BAUD RATE-19200



SERIAL HANDSHAKE-XON/OFF



SERIAL HANDSHAKE-ACK/NAK



SERIAL HANDSHAKE
TIMEOUT-5 SECONDS



WAND EMULATION-BAR=0(LOW)

Interface-Serial-2

DATA BIT



SERIAL DATA BITS -7



SERIAL DATA BITS -1



SERIAL PARITY - NONE



SERIAL PARITY - EVEN



SERIAL PARITY - SPACE



WAND EMULATION
SPEED-FASTEST (0)

END BIT



SERIAL DATA BITS -8



SERIAL DATA BITS -2



SERIAL PARITY - ODD



SERIAL PARITY - MARK



SERIAL PARITY -RESET



WAND EMULATION
SPEED-SLOWEST (3)

PARITY CHECK

TRANSMIT SPEED

Barcode on/off-1

CODE 11



ON CODE 11



OFF CODE 11

CODE 39



ON CODE 39



OFF CODE 39

CODE 93



ON CODE 93



OFF CODE 93

CODE 128



ON CODE 128



OFF CODE 128

INTERLEAVED 2OF 5



ON INTERLEAVED 2OF 5



ON INTERLEAVED 2OF 5

INDUTRIAL 2OF 5



ON INDUTRIAL 2OF 5



OFF INDUTRIAL 2OF 5

Barcode on/off-2

CODABAR



ON CODABAR



OFF CODABAR

MSI/PLESSEY



ON CODE MSI



OFF CODE MSI

UPC/EAN



ON UPC-A



OFF UPC-A



ON UPC-E



OFF UPC-E



ON EAN-13



OFF EAN-13



ON EAN-8



OFF EAN-8

Barcode Symol Set Up-1

CODE 11



CODE 11 ID CHARACTER- 'm'



ON CODE 11 LASER/CCD
REDUNDANCY



CODE 39 SS CHAR-NONE



ON CODE 39 START/END
CHARS



CODE 39 ID CHARA-CTER 'A'



ON CODE 39 LASERL/CCD
REDUNDANCY



CODE 11 ID CHARACTER 'z'



OFF CODE 11 LASER/CCD
REDUNDANCY



CODE 39 SS CHAR-NONE '+'



OFF CODE 39 START/END
CHARS



CODE 39 ID CHARA-CTER 'Z'



OFF CODE 39 LASERL/CCD
REDUNDANCY

Barcode Symol Set Up-2

CODE 93



CODE 93 ID CHARACTER 'h'



CODE 93 LASER/CCD
REDUNDANCY-ENABLE



CODE 128 ID CHARACTER 'g'



CODE 128 LASER/CCD
REDUNDANCY-ENABLE



CODABAR SEND START/STOP
CHARS-ENABLE



CODABAR WIDE GAPS
ALLOWED-ENABLE



CODE 93 ID CHARACTER 'z'



CODE 93 LASER/CCD
REDUNDANCY-DISABLE



CODE 128 ID CHARACTER 'z'



CODE 128 LASER/CCD
REDUNDANCY- DISABLE



CODABAR SEND START/STOP
CHARS-DISABLE



CODABAR WIDE GAPS
ALLOWED- DISABLE

Barcode Symol Set Up-3

CODABAR



CODABAR ID CHARACTER-k



CODABAR ID CHARABTER-z



CODABAR LASER/CCD
REDUNDANCY-ENABLE



CODABAR LASER/CCD
REDUNDANCY-DISABLE

INTERLEAVED 2 OF 5



2OF5 ID CHARACTER- 'i'



2OF5 ID CHARACTER- 'z'



ON 2OF5 LASER/CCD
REDUNDANCY



OFF 2OF5 LASER/CCD
REDUNDANCY

INDUSTRIAL 2 OF 5



INDUSTRIAL 2OF5 ID
CHARACTER- 'j'



INDUSTRIAL 2OF5 ID
CHARACTER- 'Z'



ON INDUSTRIAL 2 OF 5
LASER/CCD REDUNDANCY



OFF INDUSTRIAL 2 OF 5
LASER/CCD REDUNDANCY

Barcode Symol Set Up-4

MSI/PLESSEY



MSI ISBN ID CHARACTER- 'f'



MSI ISBN ID CHARACTER- 'z'



ON MSI LASER/CCD
REDUNDANCY



OFF MSI LASER/CCD
REDUNDANCY

UPC/EAN



ON EXPAND UPC-E TO UPC-A



OFF EXPAND UPC-E TO UPC-A



ON EXPAND UPC-A TO EAN-13



OFF EXPAND UPC-A TO EAN-13



ON CONVERT EAN-13 TO ISBN



OFF CONVERT EAN-13 TO ISBN



UPC-A ID CHARACTER- 'b'



UPC-A ID CHARACTER- 'z'

Barcode Symol Set Up-5

UPC/EAN



UPC-E ID CHARACTER- 'c'



EAN-13 ID CHARACTER- 'e'



EAN-8 ID CHARACTER - 'd'



ISBN ID CHARACTER - 'f'



UPC/EAN SUPPLEMENTS
-DISABLE



UPC/EAN SUPPLEMENTS
-5DIGIT ONLY



ON UPC/EAN LASER/CCD
REDUNDANCY



UPC-E ID CHARACTER- 'z'



EAN-13 ID CHARACTER- 'z'



EAN-8 ID CHARACTER - 'z'



ISBN ID CHARACTER - 'z'



UPC/EAN SUPPLEMENTS
-2DIGIT ONLY



UPC/EAN SUPPLEMENTS
-2&5 DIGIT



OFF UPC/EAN LASER/CCD
REDUNDANCY

EDIT SETUP BAR CODES



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



EDIT #2-STRIP 1 TRAILING
CHARACTER



EDIT #1 - FILTER LEADING SPACES



EDIT #1 - FILTER TRAILING SPACES



EDIT - FILTERALL '-' CHARACTERS



EDIT-INSERT LEADING ZERO



RENEW



RENEW



RENEW



RENEW



RENEW



RENEW

MACRO/SPECIAL KEYS SETUP BAR CODES



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



MACRO #1-DISABLED



MACRO #2-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
KEYPAD ENTER TO '2'



SPECIAL KEY-DISABLE KEYPAD
ENTER MAPPING

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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-CODE128
TERMINATION CHAR-CR



STRING#2-CODE 128
TERMINATION CHAR-LF



STRING#2-CODE128
TERMINATION CHAR-CR+LF



STRING#2-CODE 128
TERMINATION CHAR-LF



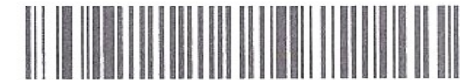
STRING-CODE 39
TERMINATION CHAR-TAB



STRING-CODE39 TERMINATION
CHAR-TAB-REMOVED



STRING-ALL CODES
PREAMBLE-STX



STRING-ALL CODES
POSTAMBLE-ETX

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 Serial Bits Serial Parity Serial Duplex Serial Data Format Inverted Serial Output Serial Intercharacter Delay Serial Caps Lock Serial Num Lock Wand Emulation Appended 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 UPC/EAN/JAN Supplements Code 128 Interleaved 2 of 5 Industrial 2 of 5 Codabar Code93 MSI/Plessey Code11 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 Beep Tone 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?

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 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& CTRL+Down Arrow	Move 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 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	Decreases transmit speed during setup
SHIFT+ Escape	Test the current Beep Tone and Beep Duration
ATL +Escape	Resets the current option to the default setting

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 codes as follows:

Key Icon	Meaning
	The left and right arrow keys scroll through available settings for the option.
	An ALT keypad sequence may be used to enter characters for entry into the field
	All ASCII data is valid for the option. All characters are available for entry into the field.
GROUP Used	Used to indicate that the option represents a group of sub-options. The left and right arrows scroll through the list of option. All characters are available for entry into the field
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

OPTION NUMBERS AND DESCRIPTIONS

: F1-INTERFACE OPTIONS

OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
000	KEYBOARDWEDGE 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 CAP LOCK	BIT	0	1	0- (AUTODETECT)
004	NUMERIC KEY OUTPUT MODE	BIT	0	1	0- (MAIN KBD KEYS)
005	KEYBOARD COUNTRY	BYTE	0	25	0-(USA)
006	DECODER OUTPUT MODE	4BIT	0	2	0- (KEYBRDWEDGE)
007	SERIAL BAUD RATE	4BIT	0	7	5- (9600)
008	SERIAL DATA BITS	BIT	0	1	1- 8 BITS
009	SERIAL STOP BITS	BIT	0	1	0- 1STOP BIT
010	SERIAL PARITY	4BIT	0	4	0-NONE
011	SERIAL INTERCHARACTER DELAY	BYTE	0	50	0- (MSECS)
012	SERIAL HANDSHAKE MODE	4BIT	0	3	0-NONE
013	SERIAL HANDSHAKE TIMEOUT	BYTE	0	100	20- (1SECONDS)
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- BAR=1

: F2-Code39 OPTIONS

OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
022	CODE 39 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- DISABLED
033	LASER/CCD REDUNDANCY	BIT	0	1	0- DISABLED

: F2-UPC/EAN OPTIONS

OPTIONS

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	0- DISABLED
039	EXPAND UPC-E TO EAN-13	BIT	0	1	0- DISABLED
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-A ID CHARACTER	CHAR	1	1	'b'
050	UPC-E ID CHARACTER	CHAR	1	1	'c'
051	EAN-13 ID CHARACTER	CHAR	1	1	'e'
052	EAN-8 ID CHARACTER	CHAR	1	1	'd'
053	ISBN ID CHARACTER	CHAR	1	1	'f'
054	RESERVED	BIT	0	1	0- DISABLED

: F2-UPC/EAN SUPPLEMENTS OPTIONS

OPTIONS

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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: F2-CODE-93 OPTION S

OPTIONS

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	CODE 128 DECODER	BIT	0	1	1- ENABLED
070	ISBT DECODER	BIT	0	1	0- DISABLED
071	ISBTCONCATENATION PAIRS	STRING	0	4	NONE
072	ISBTPAIR #1	STRING	0	4	NONE
073	ISBTPAIR #2	STRING	0	4	NONE
074	ISBTPAIR #3	STRING	0	4	NONE
075	ISBTPAIR #4	STRING	0	4	NONE
076	ISBTPAIR #5	STRING	0	4	NONE
077	ISBTPAIR #6	STRING	0	4	NONE
078	FIELD SEPARATOR CHARACTER	CHAR	1	1	01DH (ASCII 'GS')
079	MAXIMUM LENGTH	BYTE	0	164	164
080	MINIMUM LENGTH	BYTE	0	164	0
081	ID CHARACCTER	CHAR	1	1	'g'
082	UCC/EAN OUTPUT PREFIX	STRING	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	CLSI FORMATTING	BIT	0	1	0- DISABLED
090	WIDE INTERCHARACTER GAPS	BIT	0	1	0- DISABLED
091	ABD 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	12OF5 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

OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
106	INDUSTRIAL2OF5 DECODER	BIT	0	1	1- ENABLED
107	START/STOP CHARACTERS	BIT	0	1	0- 3BAR 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

OPTIONS

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 DIGITS	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	USING THE SAME ISBN ID TO UPC/EAN			
125	LASER/CCD REDUNDANCY	BIT	0	1	1- ENABLED

: F2-CODE 11 OPTIONS
OPTIONS

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 DIGIT	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
OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
133	INDUSTRIAL20F5 DECODER	4BIT	0	5	0- SINGLE SCAN
134	START/STOP CHARACTERS	BYTE	1	12	2-(2 SECONDS)
135	MAXIMUM LENGTH	4BIT	2	7	3
136	MINIMUM LENGTH	BYTE	0	255	0-OFF
137	FIXED LENGTH	BYTE	0	127	5-(5 SECONDS)

: F2-OTHER DECODING OPTIONS
OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
138	INDUSTRIAL20F5 DECODER	BIT	0	1	1- LARGE
139	START/STOP CHARACTERS	BIT	0	1	0- DISABLED
140	MAXIMUM LENGTH	BIT	0	1	0- DISABLED

: F7-DEFINE THE BUZZER AND LED OPTIONS
OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
141	INDUSTRIAL20F5 DECODER	BIT	0	1	1- ENABLED
142	START/STOP CHARACTERS	4BIT	0	5	2-MEDIUM
143	MAXIMUM LENGTH	BYTE	0	2	2-MEDIUM
144	MINIMUM LENGTH	BYTE	0	65	20-(2.0 SECONDS)
145	FIXED LENGTH	BIT	0	1	0- DISABLED

F4-DEFINE THE MACROD 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.

OPTIONS					
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	DELETE KEY MACRO	BYTE	0	255	255-OFF
174	HONG 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 OPTIONS

OPTIONS					
NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
200	EDIT OPTION	SEE BELOW			DISBLED
	EDIT BAR CODE DATA FORMAT:				
	2DIGIT EDIT # (00- 10)				
	00 WILL AUTOMATICALLY SELECT THE FIRST AVAILABLE EDIT#				
	2DIGIT EDIT 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 CHARACTER				
	07- INSERT TRAILING CHARACTER				
	08- CONVERT TO UPPERCASE				
	09- CONVERT TO LOWERCASE				
	2DIGIT ACTIVE FOR TYPE (00- 14)				
	00- ALL BAR CODE TYPES				
	01- ALL BAR CODE TYPE ALWAYS				
	02- CODE 39				
	03- UPC- A				
	04- UPC- E				
	05- EAN- 13				
	06- EAN- 8				
	07- ISBN				
	08- CODE 128				
	09- I 2OF5				
	10- CODABAR				
	11- CODE93				
	12- MSI				
	13- CODE11				
	14- INDUSTRIAL 2 OF 5				
	2DIGIT ACTIVE FOR SIZE (00- 99)				
	3DIGIT BYTE 1 VALUE				
	3DIGIT BYTE 2 VALUE				
	3DIGIT BYTE 3 VALUE				
	3DIGIT CONTAINS OFFSET	000- 255			
	000=START CHARACTER+0				
	255=END CHARACTER-0				
	5 CHARACTER CONTAINS STRING- UP TO 5 CHARS				

F4-MACRO SETUP BAR CODE OPTIONS

OPTIONS					
NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
201	MACRO OPTION	SEE BELOW			
	MACRO BAR CODE DATA FORMAT				
	2DIGIT MACTRO# (00- 10)				
	00-WILL AUTOMATICALLY SELECT THE FIRST				
	2DIGIT ACTIVE FOR TYPE(00- 15)	00-NONE			
		01- ALL BAR CDOE TYPE			
		02- ALL BAR CODE TYPE ALWAYS			
		03- CODE 39			
		04- UPC- A			
		05- UPC- E			
		06- EAN- 13			
		07- EAN- 8			
		08- ISBN			
		09- CODE 128			
		10-12OF5			
		11- CODABAR			
		12- CODE- 93			
		13-MSI			
		14- CODE 11			
		15- INDUSTRIAL 2OF5			

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F5-STRING SETUP BAR CODE OPTIONS

OPTIONS

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
202	STRING OPTION				\$ 0D(CR)
	STRING BAR CODE DATA FORMAT				
	2 DIGIT STRING # (00- 10)				
	00- WILL AUTOMATICALLY SELECT THE FIRST				
	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- 12OF5				
	10- CODABAR				
	11- CODE 93				
	12- MSI				
	13- CODE 11				
	14-INDUSTRIAL 2 OF 5				
	1 DIGIT SCAN DIRECTION (0- 2)				
	0-ANY DIRECTION SCAN				
	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 \)	\$9D	157	Enter Keypad	\$BF	191	Caps Lock
\$1D	29	GS(CTRL])	\$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			

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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 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: 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 scan, on date be transmitted.

Cause: The scanner's setup is incorrect.

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

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-setup the correct communication agreement.

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