

User's Manual

Introduction

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

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.

*All rights reserved, including those to reprint this manual.

Table of Contents

FEATURES	4
NOTE THE USE OF AUTOMATIC DETECTION	5
USING THE SETUP MODE TO CONFIGURE THE DECODER	6
SETUP CATEGORY	7
EDITING KEYS	8
MULTISCAN FUNCTIONS	9
OUTPUT MODE	9
BUZZER/LED	9
IMAGE.....	10
CODE ID.....	10
READING MADE	10
INTERFACE-KBW	11
PC COMMUNICATION	11
TRANSMIT SPEED	11
LANGUAGE	11
RS-232	12
BAUD RATE	12
HAND SHAKE	12
PARAMETERS	13
SERIAL STOP BITS	13
CHECK DIGIT	13
INTERFACE-WAND	14
SPEED	14
BAR LEVEL	14
SYMBOLOGIES ON/OFF	14
Code11	14
Code39	14
Code93	15
Code128	15
Codabar	15
Interleaved 2 of 5	15
Industrial 2 of 5.....	15
MSI/Plessey.....	16
UPC/EAN.....	16

Symbologies Set Up	17
Code11	17
Code39	17
Code93	18
Code128	18
Codabar	18
Interleaved 2 of 5	19
Industrial 2 of 5	19
MSI/Plessey	20
UPC/EAN	20
EDIT SETUP BAR CODES	23
MACRO/SPECIAL KEYS SETUP BAR CODES	24
TERMINATION STRING SETUP BAR CODES	25
OPTION NUMBERS AND DESCRIPTIONS	27
<i>F1 - Interface Options</i>	27
<i>F2 - Code 39 Options</i>	27
<i>F2 - UPC/EAN Options</i>	28
<i>F2 - UPC/EAN Supplements Options</i>	28
<i>F2 - Code 93 Options</i>	29
<i>F2- Code 128 Options</i>	29
<i>F2 - Codabar Options</i>	29
<i>F2 - Interleaved 2 of 5 Options</i>	30
<i>F2 - Industrial 2 of 5 Options</i>	30
<i>F2 - MSI Options</i>	30
<i>F2 - Code 11 Options</i>	31
<i>F2 - Laser/CCD Options</i>	31
<i>F2 - Other Decoding Options</i>	31
<i>F7 - Define The Buzzer and LED Options</i>	31
<i>F4 - Define The Macro Key Mapping Options</i>	32
<i>F3 - Edit Setup Bar Code</i>	33
<i>F4 - Macro Setup Bar Code</i>	34
<i>F5 - String Setup Bar Code</i>	35
Appendix-A Special Characters	36
Appendix-B Decoder Pinouts and Specifications	38
Appendix-C Troubleshooting and Error Beeps	39

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 is encoded in the bar code
- + Simple programming from your keyboard or scan bar codes!
- + Over 180 configurable options
- + 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)
- + 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

Note the use of automatic detection BC-6000S

1. Call for the automatic detection time code. When objects near sensitive areas, infrared sensors to objects automatically initiate a bar code laser. Object left sensory region to close out the second time code.
2. If the need for the cessation of automatic induction
Reading continued to Press the bar code functions click eight seconds, the open click the eight seconds and automatically restore sensory Reading codes.
3. 25~30cm sensory objects in the distance, 0.2sec scan rate.

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 ARROW KEYS 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 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.*

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 2of 5 Industrial 2of 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 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 of all special editing keys and a description of their function:

Key	Description
LeftArrow,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 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.
	An ALT keypad sequence may be used to enter characters for the setting.
	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.

Multiscan Functions - 1

OUTPUT FIRMWARE VERSION



0A

RESET CONFIGURATION TO DEFAULTS



0B

OUTPUT MODE

OUTPUT MODE - KEYBOARD WEDGE



000600

OUTPUT MODE - SERIAL



000601

OUTPUT MODE - WAND EMULATION



000602

OUTPUT MODE - RESET



0B006

OUTPUT MODE - OCIA (NOT AVAILABLE YET)



000603

OUTPUT MODE - MAC (NOT AVAILABLE YET)



000604

BUZZER/LED

GOOD READ BEEP TONE - NONE



014200

GOOD READ BEEP TONE - RESET



0B142

GOOD READ BEEP DURATION - MEDIUM



014301

LED POWER SAVE MODE - ENABLE



01451

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



READING MODE

LASER/CCD MODE - SINGLE SCAN



LASER/CCD MODE - SINGLE SCAN NO TRIGGER



LASER/CCD MODE - MULTISCAN



LASER/CCD MODE - MULTISCAN NO TRIGGER



LASER/CCD MODE - CONTINUOUS SCAN



LASER/CCD MODE - PULSE



Interface - KBW

PC Communication

WEDGE MODE - AUTODETECT



WEDGE MODE - SCAN SET 2 PASS THRU



Transmit Speed

TRANSMIT SPEED - 0



TRANSMIT SPEED - 25



LANGUAGE

KEYBOARD COUNTRY - USA



KEYBOARD COUNTRY - GERMAN



KEYBOARD COUNTRY - FRANCE



KEYBOARD COUNTRY - UNIVERSAL



Interface - Serial - 1

BAUD RATE

SERIAL BAUD RATE - 2400



SERIAL BAUD RATE - 4800



SERIAL BAUD RATE - 9600



SERIAL BAUD RATE - 19200



SERIAL HANDSHAKE - NONE



SERIAL HANDSHAKE - XON/XOFF



HAND SHAKE

SERIAL HANDSHAKE - RTS/CTS



SERIAL HANDSHAKE - ACK/NAK



SERIAL HANDSHAKE TIMEOUT - 2 SECONDS



SERIAL HANDSHAKE TIMEOUT - 5 SECONDS



Interface - Serial - 2

PARAMETERS

SERIAL DATA BITS - 8



SERIAL DATA BITS - 7



SERIAL STOP BITS

SERIAL STOP BITS - 1



SERIAL STOP BITS - 2



CHECK DIGIT

SERIAL PARITY - NONE



SERIAL PARITY - ODD



SERIAL PARITY - EVEN



SERIAL PARITY - MARK



SERIAL PARITY - SPACE



SERIAL PARITY - RESET



Interface - WAND

CODE 128 WAND EMULATION - ENABLE



CODE 128 WAND EMULATION - DISABLE



SPEED

WAND EMULATION SPEED - FASTEST (0)



WAND EMULATION SPEED - SLOWEST (3)



BAR LEVEL

WAND EMULATION - BAR=1(HIGH)



WAND EMULATION - BAR=0(LOW)



CODE 11

CODE 11 - ENABLE



CODE 11 - DISABLE



CODE 39

CODE 39 ENABLE



CODE 39 DISABLE



FULL ASCII ENABLE



FULL ASCII DISABLE



Symbologies On/Off - 1

CODE 93

CODE 93 - ENABLE



CODE 93 - DISABLE



CODE 128

CODE 128 - ENABLE



CODE 128 - DISABLE



CODE 128 ISBT - ENABLE



CODE 128 ISBT - DISABLE



CODABAR

CODABAR - ENABLE



CODABAR - DISABLE



INTERLEAVED 2 OF 5

I2OF5 - ENABLE



I2OF5 - DISABLE



INDUSTRIAL 2 OF 5

ID2OF5 - ENABLE



ID2OF5 - DISABLE



Symbologies On/Off - 2

MSI/PLESSEY

MSI - ENABLE



MSI - DISABLE



UPC/EAN

UPC-A ENABLE



UPC-A DISABLE



UPC-E ENABLE



UPC-E DISABLE



EAN-13 ENABLE



EAN-13 DISABLE



EAN-8 ENABLE



EAN-8 DISABLE



Symbologies Set Up - 1

CODE 11

CODE 11 ID CHARACTER - 'm'



CODE 11 ID CHARACTER - 'Z'



CODE 11 LASER/CCD REDUNDANCY - ENABLE



CODE 11 LASER/CCD REDUNDANCY - DISABLE



CODE 39

CODE 39 SS CHAR - NONE



CODE 39 SS CHAR '+'



CODE 39 SEND START/STOP CHARS ENABLE



CODE 39 SEND START/STOP CHARS DISABLE



CODE 39 ID CHARACTER 'a'



CODE 39 ID CHARACTER 'Z'



CODE 39 LASER/CCD REDUNDANCY ENABLE



CODE 39 LASER/CCD REDUNDANCY DISABLE



Symbologies Set Up - 2

CODE 93

CODE 93 ID CHARACTER - 'h'



CODE 93 ID CHARACTER - 'Z'



CODE 93 LASER/CCD REDUNDANCY - ENABLE



CODE 93 LASER/CCD REDUNDANCY - DISABLE



CODE 128

CODE 128 ID CHARACTER - 'g'



CODE 128 ID CHARACTER - 'Z'



CODE 128 LASER/CCD REDUNDANCY - ENABLE



CODE 128 LASER/CCD REDUNDANCY - DISABLE



CODABAR

CODABAR SEND START/STOP CHARS - ENABLE



CODABAR SEND START/STOP CHARS - DISABLE



CODABAR WIDE GAPS ALLOWED - ENABLE



CODABAR WIDE GAPS ALLOWED - DISABLE



Symbologies Set Up - 3

CODABAR

CODABAR ID CHARACTER - 'k'



CODABAR ID CHARACTER - 'Z'



CODABAR LASER/CCD REDUNDANCY - ENABLE



CODABAR LASER/CCD REDUNDANCY - DISABLE



Interleaved 2 of 5

I2 OF 5 ID CHARACTER - 'i'



I2 OF 5 ID CHARACTER - 'Z'



I2OF5LASER/CCD REDUNDANCY - ENABLE



I2OF5LASER/CCD REDUNDANCY - DISABLE



Industrial 2 of 5

ID2OF5 ID CHARACTER - 'j'



ID2OF5 ID CHARACTER - 'Z'



ID2OF5LASER/CCD REDUNDANCY - ENABLE



ID2OF5LASER/CCD REDUNDANCY - DISABLE



Symbologies Set Up - 4

MSI/PLESSEY

MSI ISBN ID CHARACTER - I



MSI ISBN ID CHARACTER - Z



MSI LASER/CCD REDUNDANCY - ENABLE



MSI LASER/CCD REDUNDANCY - DISABLE



UPC/EAN

EXPAND UPC-E TO UPC-A ENABLE



EXPAND UPC-E TO UPC-A DISABLE



EXPAND UPC-E TO EAN-13 ENABLE



EXPAND UPC-E TO EAN-13 DISABLE



CONVERT EAN-13 TO ISBN ENABLE



CONVERT EAN-13 TO ISBN DISABLE



UPC-A ID CHARACTER - b



UPC-A ID CHARACTER - Z

