

User's Manual

Barcode Scanner

CATALOGUE

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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
- * 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



Enter Setup Mode

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 Serial Parity Serial Duplex Serial Data Format Inverted Serial Output Serial Intercharacter Delay Serial Caps Lock Serial Num Lock Wand Emulation Appedd Mode Wand Emulation Max Segment Size Wand Emulation Segment Output Delay Setup Mode Lockout
F2	Decoders/Scanner	Decoders On/Pff 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#-Edit#10
F4	Macro #1- Macro#10 keys	Macro #1- Macro#10 keys
F5	Strings	String #1- String #10
F6	Reserved	
F7	Buzze/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 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	Exit configuration saving changes (Permanent)
SHIFT+Escape	Exit configuration saving changes(Temporary)
ATL+Escape	Exit configuration without saving changes.

Note: If you experience some character loss during setup , you may press the CTRL-(Keypad Minus)key to solve 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 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.

Setup from Bar Code Label

Multiscan Functions-1

OUTPUT FIRMWARE VERSION

RESET CONFIGURATION TO DEFAULTS



0A



0B

OUTPUT MODE

OUTPUT MODE-KEYBOARD WEDGE

OUTPUT MODE-SERIAL



000600



000601

OUTPUT MODE-WAND EMULATION

OUTPUT MODE-RESET



000602



0B006

OUTPUT MODE-OCIA

OUTPUT MODE-MAC



000603



000604

BUZZER/LED

GOOD READ BEEP TONE-NONE

GOOD READ BEEP TONE-RESET



014200



0B142

GOOD READ BEEP DURATION-MEDIUM

LED POWER SAVE MODE-ENABLE



014301



01451

Multiscan Functions-2

IMAGE

DECODE OPTIONS REVERSE IMAGE-ENABLE



01391

DECODE OPTIONS REVERSE IMAGE-DISAABLE



01390

CODE ID

DECODE OPTIONS SEND BAR CODE ID-DISABLE



01400

DECODE OPTIONS SEND BAR CODE ID-AS A PREFIX



01401

DECODE OPTIONS SEND BAR CODE ID-RESET



0B140

DECODE OPTIONS SEND BAR CODE ID-AS A SUFFIX



01402

READING MODE

LASER/CCD MODE-SINGLE SCAN



013300

LASER/CCD MODE-SINGLE SCAN NO TRIGGER



013301

LASER/CCD MODE-MULTISCAN



013302

LASER/CCD MODE-MULTISCAN NO TRIGGER



013303

LASER/CCD MODE-MULTISCAN



013304

LASER/CCD MODE-PULSE



013305

Interface - KBW

PC Communication

WEDGE MODE-AUTODETECT



000200

WEDGE MODE-SCAN SET2PASS THRU



000204

Transmit Speed

TRANSMIT SPEED-0



0000000

T RANSMIT SPEED-25



0000025

LANGUAGE

KEYBOARD COUNTRY-USA



0005000

KEYBOARD COUNTRY-GERMAN



0005010

KEYBOARD COUNTRY-FRANCE



0005009

KEYBOARD COUNTRY-UNIVERSAL



0005025

Interface – Serial-1

baud rate

2400



000703

4800



000704

9600



000705

19200



000706

HAND SHAKE

NONE



001200

XON/OFF



001201

RTS/CTS



001202

ACK/NAK



001203

SERIAL HANDSHAKE TIMEOUT-2 SECONDS



0013020

SERIAL HANDSHAKE TIMEOUT-5 SECONDS



0013050

Interface – Serial-2

PARAMETERS

SERIAL DATA BITS-8



00081

SERIAL DATA BITS -7



00080

Stop bits

SERIAL STOP BITS-1



00090

SERIAL STOP BITS-2



00091

SERIAL PARITY

SERIAL PARITY-NONE



001000

SERIAL PARITY-ODD



001001

SERIAL PARITY-EVEN



001002

SERIAL PARITY-MARK



001003

SERIAL PARITY-SPACE



001004

SERIAL PARITY-RESET



0B010

Interface – WAND

CODE 128 WAND EMULATION-ENABLE



00141

CODE 128 WAND EMULATION-DISABLE



00140

SPEED

WAND EMULATION SPEED-FASTEST (0)



001500

WAND EMULATION SPEED-SLOWEST (3)



001503

BAR LEVEL

WAND EMULATION-BAR=1(HIGH)



00161

WAND EMULATION-BAR=0(LOW)



00160

CODE 11

CODE 11-ENABLE



01261

CODE 11 - DISABLE



01260

CODE 39

CODE 39 ENABLE



00221

CODE 39 - DISABLE



00220

FULL ASCII ENABLE



00231

FULL ASCII DISABLE



00230

Symbologies On/Off—1

CODE 93

CODE 93 - ENABLE



00621

CODE 93 - DISABLE



00620

CODE128

CODE 128 - ENABLE



00691

CODE 128 - DISABLE



00690

CODE 128 ISBT -ENABLE



00701

CODE 128 ISBT-DISABLE



00700

CODABAR

CODABAR - ENABLE



00851

CODABAR - DISABLE



00850

INTERLEAVED 2 OF 5

12 OF 5-ENABLE



00961

12OF5-DISABLE



00960

INDUSTRIAL 2 OF 5

ID2OF5-ENABLE



01061

ID2OF5-DISABLE



01060

Symbologies On/Off—2

MSI/PLESSEY

MSI - ENABLE



MSI - DISABLE



UPC—A ENABLE



UPC/EAN

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'



0131m

CODE 11 ID CHARACTER 'z'



0131z

CODE 11 LASER/CCD REDUNDANCY - ENABLE



01321

CODE 11 LASER/CCD REDUNDANCY - DISABLE



01320

CODE 39

CODE 39 SS CHAR - NONE



002700

CODE 39 SS CHAR ' + '



002704

CODE 39 SEND STAR/STOP CHARS ENABLE



00281

CODE 39 SEND START/STOP CHARS DISABLE



00280

CODE 39 ID CHARACTER 'a'



0031a

CODE 39 ID CHARACTER 'z'



0031z

CODE 39 LASER/CCD REDUNDANCY ENABLE



00331

CODE 39 LASER/CCD REDUNDANCY DISABLE



00330

Symbologies Set Up—2

CODE 93

CODE 93 ID CHARACTER 'h'



0066h

CODE 93 ID CHARACTER 'z'



0066z

CODE 93 LASER/CCD REDUNDANCY-ENABLE



00681

CODE 93 LASER/CCD REDUNDANCY-DISABLE



00680

CODE 128

CODE 128 ID CHARACTER 'g'



0081g

CODE 128 ID CHARACTER 'z'



0081z

CODE 128 LASER/CCD REDUNDANCY-ENABLE



00841

CODE 128 LASER/CCD REDUNDANCY-DISABLE



00840

CODABAR

CODABAR SEND START/STOP CHARS-ENABLE



00861

CODABAR SEND START/STOP CHARS-DISABLE



00860

CODABAR WIDE GAPS ALLOWED-ENABLE



00901

CODABAR WIDE GAPS ALLOWED-DISABLE



00900

Symbologies Set Up—3

CODABAR

CODABAR ID CHARACTER-k



0094k

CODABAR ID CHARABTER-z



0094z

CODABAR LASER/CCD REDUNDANCY-ENABLE



00951

CODABAR LASER/CCD REDUNDANCY-DISABLE



00950

Interleaved 2 of 5

120F5 ID CHARACTER-i



0104i

120F5 ID CHARACTER-z



0104z

120F5 LASER/CCD REDUNDANCY-ENABLE



01051

CODABAR LASER/CCD REDUNDANCY-DISABLE



01050

Industrial 2 of 5

ID20F5 ID CHARACTER-j



0113j

ID20F5 CHARACTER-z



0113z

ID20F5LASER/CCD REDUNDANCY-ENABLE



01141

ID20F5LASER/CCD REDUNDANCY-DISABLE



01140

Symbologies Set Up—4

MSI/PLESSEY

MSI ISBN ID CHARACTER-f



0053f

MSI ISBN ID CHARACTER-z



0053z

MSI LASER/CCD REDUNDANCY-ENABLE



01251

MSI LASER/CCD REDUNDANCY-DISABLE



01250

UPC/EAN

EXPAND UPC-E TO UPC-A ENABLE



00381

EXPAND UPC-E TO UPC-A DISABLE



00380

EXPAND UPC-A TO EAN-13 ENABLE



00391

EXPAND UPC-ATO EAN-13 DISABLE



00390

CONVERT EAN-13 TO ISBN ENABLE



00481

CONVERT EAN-13 TO ISBN DISABLE



00480

UPC-A ID CHARACTER-b



0049b

UPC-A ID CHARACTER-z



0049z

Symbologies Set Up—5

UPC/EAN

UPC-E ID CHARACTER—c



0050c

UPC-E ID CHARACTER—z



0050z

EAN-13 ID CHARACTER—e



0051e

EAN-13 ID CHARACTER—z



0051z

EAN-8 ID CHARACTER —d



0052d

EAN-8 ID CHARACTER —z



0052z

ISBN ID CHARACTER —f



0053f

ISBN ID CHARACTER —z



0053z

UPC/EAN SUPPLEMENTS—DISABLE



00550

UPC/EAN SUPPLEMENTS—2DIGIT ONLY



00551

UPC/EAN SUPPLEMENTS—5DIGIT ONLY



00552

UPC/EAN SUPPLEMENTS—2DIGIT ONLY



00553

Symbologies Set Up—6

UPC/EAN

UPC/EAN LASER/CCD REDUNDANCY ENABLE

UPC/EAN LASER/CCD REDUNDANCY DISABLE



00541



00540

EDIT SETUP BAR CODES

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



02000101000000100000000112345

EDIT #1- OFF



0B20001

EDIT #2-STRIP 1 TRAILING CHARACTER



020002020000001

EDIT #2 - OFF



0B20002

EDIT #1-FILTER LEADING SPACES



0200010300000032

EDIT #1 - OFF



0B20001

EDIT #1-FILTER TRAILING SPACES



0200010400000032

EDIT #1 - OFF



0B20001

EDIT-FILTER CHARACTERS



0200000500000045

EDIT-DISABLE FILTERING OF ALL CHARS



0B200000500000045

EDIT-INSERT LEADING ZERO



020000060000000048

EDIT-DISABLE INSERT LEADING ZERO



0B20000060000000048

MACRO/SPECIAL KEYS SETUP BAR CODES

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



020101010110NE

MACRO #1-DISABLED



0B20101

MACRO #2-FIND '2' AND

REPLACE WITH 'TWO' FOR CODE 39 ONLY



02010203012TWO

MACRO #2-DISABLED



0B20102

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



02010001010A

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



0B2010001010A

SPECIAL KEY-MAP F3 TO '0'



0162048

SPECIAL KEY-DISABLE F3 KEY MAPPING



0B162

SPECIAL KEY-MAP KEYPAD ENTER TO '2'



0182050

SPECIAL KEY-DISABLE KEYPAD ENTER MAPPING



0B182

TERMINATION STRING SETUP BAR CODES

STRING#1-TERMINATION CHAR-CR



0202011000\$0D

STRING#1-TERMINATION-LF



0202011000\$0A

STRING#1-TERMINATION CR+LF



0202011000\$0D\$0A

STRING#1-DISABLED



0B20201

STRING#2-CODE128TERMINATION CHAR-CR



0202021080\$0D

STRING#2-CODE 128TERMINATION CHAR-LF



0202021080\$0A

STRING#2-CODE128 TERMINATION CHAR-CR+LF



0202021080\$0D\$0A

STRING#2-CODE 128TERMINATION CHAR-LF



0B20202

STRING-CODE 39 TERMINATION CHAR-TAB



0202001020\$09

STRING-CODE39 TERMINATION CHAR-TAB-REMOVED



0B202001020\$09

STRING- ALL CODES PREAMBLE-STX



0202002000\$02

STRING-ALL CODES POSTAMBLE-ETX



0202003000\$03

ACTION DESCRIPTION

A DISPLAY DECODER FIRMWARE VERSION NUMBER

B RESET DECODER OR OPTION TO DEFAULT SETTINGS

C ENTER KEYBOARD PROGRAMMING MODE-ACTIVE ONLY

WHEN IN KEYBOARD WEDGE MODE

OPTION NUMBERS AND DESCRIPTIONS

F1 INTERFACE OPTION

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 CAP LOCK	BIT	0	1	0- (AUTODETECT)
004	NUMERIC KEY OUTPUT MODE	BIT	0	1	0- (MAIN KBD KEYS)
005	KEYBOARD COUNTRY	BYIT	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	BOT	0	1	1-8BITS
009	SERIAL STOP BITS	BOT	0	1	0- 1STOP BIT
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- (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 OPTION

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-DISABLED
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 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	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	LASER/CCD REDUNDANCY	BIT	0	1	0-DISABLED

F2 UPC/EAN SUPPLEMENTS 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

F2 CODE-93 OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
062	CODE 93 DECODER	BIT	0	1	1-启用
063	APPEND MODE	BIT	0	1	0-禁用
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-禁用
068	LASER/CCD REDUNDANCY	BIT	0	1	0-禁用

F2 CODE 128 OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
069	CODE128DECODER	BIT	0	1	1-启用
070	ISBT DECODER	BIT	0	1	0-禁用
071	ISBTCONCATENATION PAIRS	STRING	0	4	无
072	ISBTPAIR #1	STRING	0	4	无
073	ISBTPAIR #2	STRING	0	4	无
074	ISBTPAIR #3	STRING	0	4	无
075	ISBTPAIR #4	STRING	0	4	无
076	ISBTPAIR #5	STRING	0	4	无
077	ISBTPAIR #6	STRING	0	4	无
078	FIELD SEPARATOR CHARACTER	CHAR	1	1	01DH(ASCHGS')
079	MAXIMUM LENGTH	TYIE	0	164	164
080	MINIMUM LENGTH	BYIE	0	164	0
081	ID CHARACCTER	CHAR	1	1	'g'
082	UCC/EAN OUTPUT PREFIX	SRTING	0	3	无
083	CONTROL CHARACTER OVERRIDE	BIT	0	1	0-禁用
084	LASER/CCD REDUNDANCY	BIT	0	1	0-禁用

F2 CODABAR OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
085	CODABAR DECODER	BYTE	0	1	1- ENBALED
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 OPTION

NUMBER	NUMBER	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 # 11	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 OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
106	INDUSTRIAL 2OF5 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	14
113	ID CHARACTER	CHAR	1	1	'i'
114	LASER/CCD REDUNDANCY	BIT	0	1	1- ENABLED

F2 MSI OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
115	MSI DECODER	BIT	0	1	1- ENABLED
116	CHECK DIGITS	2BIT	0	2	0-MOD
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 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 OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
133	OPERATING MODE超时	4BIT	0	5	0-SINGLE SCAN
134	TIMEOUT	BYTE	1	12	2- (2SECONDS)
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- (5SECONDS)

F2 OTHER DECODING 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 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	1-MEDIUM
144	NO READ LED DELAY	BYTE	0	65	20- (2SECONDS)
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	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 OPTION

OPTION					
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 2OF5				
	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				

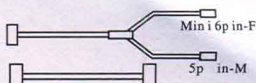
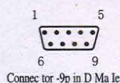
F4 MACRO SETUP BAR CODE OPTION

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 TYPES 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			

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				
	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				

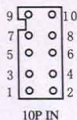
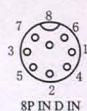
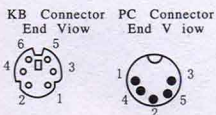
Appendix-B Decoder's interface :



- 1.Start of Scan
- 2.Bar Code Data In (Wand Data In)
- 3.Good Read Out
- 4.No Connection
- 5.Laser Trigger In
- 6.Power Enable
- 7.Ground (Wand Ground)
- 8.Shield Ground
- 9.+5 VDC

- RS232 Same as Built-in Type
KB Connector-6P mini-Din(Female)
- 1.Keyboard Date
 - 2.Reserved
 - 3.Ground
 - 4.+5VDC
 - 5.Keyboard Clock
 - 6.Reserved

- PC Connector -5P Din (Male)
- 1.Deyboard Clock(Wand Data)
 - 2.Keyboard Data
 - 3.Reserved
 - 4.Ground
 - 5.+5 VDC



TTL Type

Color	Function	9pin DSUB/AMP(F)	6pin Din(M)	6Pin Din(M)	6Pin miniDin(M)
Brown	Start of Scan	1	-	6	6
Yellow	Signal Data	2	2	2	4
Green	LED Indicator	3	-	-	-
Red	Trigger	5	5	5	1
Blue	Power Enable	6	4	4	2
Black	GND	7	3	3	5
White	GND Shield	8	3	3	5
Orange	Vcc+5v	9	1	1	3

RS232 Type

Color	Function	9Pin DSUB/AMP(F)	25Pin DSUB(F)
Brown	GND	5	7
Yellow	CTS	7	4
Green	RTS	8	5
Orange	RX	3	2
Blue	TX	2	3
White	Vcc+5V	9	25,16

OCIA Type

Color	Function	8 Pin Din (M)	9 Pin DSUB (F)	10 Pin (Casio)
Black	Clock Return	4	1	3
Green	Clock	3	2	9
Yellow	Data Return	1	3	5
Red	Data	2	4	7
White	VCC+5V	5	7	10
Brown	GND	7	8	1

WAND Emulation Type

Color	Function	9Pin DSUB/AMP(F)	5Pin Din(M)	6Pin Din (M)
Blue	Signal Data	2	2	3
Brown	GND	7,8	3	3
White	Vcc+5V	9	1	1

RS232/Keyboard Type

Color	Function	9 Pin DSUB/AMP(F)	25 Pin DSUB (F)
Brown	GND	5	7
Blue	TX	3	3
White	Vcc-5V	9	25,16
Orange	RX	2	2