

SETUP from PC keyboard

For KBW or KBW/RS232 interface

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 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 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 Duples 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#1-Edit#10
F4	Macros/Special 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 form 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	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 solw 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 cois as follows :

Key Lcon	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 entry into the field
ASCII	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



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

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
DISAABLE



DECODE OPTIONS REVERSE IMAGE-



CODE ID

DECIDE OPTIONS SEND BAR CODE ID-DISABLE
A PREFIX



DECODE OPTIONS SEND BAR CODE ID-AS



DECODE OPTIONS SEND BAR CODE ID-RESET
A SUFFIX



DECODE OPTIONS SEND BAR CODE ID-AS



READING MODE

LASER/CCD MODE-SINGLE SCAN
TRIGGER



LASER/CCD MODE-SINGLE SCAN NO



LASER/CCD MODE-MULTISCAN



LASER/CCD MODE-MULTISCAN NO TRIGGER



LASER/CCD MODE-MULTISCAN

LASER/CCD MODE-PULSE



013304



013305

Interface – KBW

PC Communication

WEDGE MODE-AUTODETECT



000200

WEDGE MODE-SCAN SET2PASS THRU



000204

Transmit Speed

TRANSMIT SPEED - 0



000000

TRANSMIT SPEED - 25



000025

LANGUAGE

KEYBOARD COUNTRY-USA



000500

KEYBOARD COUNTRY-GERMAN



000510

KEYBOARD COUNTRY-FRANCE



000509

KEYBOARD COUNTRY-UNIVERSAL



000525

Interface – Serial-1

2400



000703

4800



000704

9600



000705

19200



000706

HAND SHAKE

SERIAL HANDSHAKE-NONE



001200

SERIAL HANDSHAKE-XON/OFF



001201

SERIAL HANDSHAKE-RTS/CTS

SERIAL HANDSHAKE-ACK/NAK



001202

SERIAL HANDSHAKE TIMEOUT-2 SECONDS



001203

SERIAL HANDSHAKE TIMEOUT-5 SECONDS



0013020



0013050

**Interface – Serial-2
PARAMETERS**

SERIAL DATA BITS-8



00081

SERIAL STOP BITS - 1

SERIAL DATA BITS -7



00080

SERIAL STOP BITS - 2

2



00090

SERIAL PARITY - NONE



00091

SERIAL PARITY - ODD



001000

SERIAL PARITY - EVEN



001001

SERIAL PARITY - MARK



001002

SERIAL PARITY - SPACE



001003

SERIAL PARITY - RESET



001004

CODE 128 WAND EMULATION - ENABLE



0B010

CODE 128 WAND EMULATION - DISABLE

Interface – WAND



00141

WAND EMULATION SPEED-FASTEST (0)



00140

WAND EMULATION SPEED-SLOWEST (3)

SPEED



001500



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

CODE 128 - ENABLE



00691

CODE 128 - DISABLE



00690

CODE 128 ISBT - ENABLE



00701

CODE 128 ISBT - DISABLE



00700

CODABAR

CODABAR - ENABLE

CODABAR - DISABLE



008851



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



01151

MSI - DISABLE



01150

UPC/EAN

UPC—A ENABLE



00341

UPC—A DISABLE



00340

UPC—E ENABLE



00351

UPC—E DISABLE



00350

EAN—13 ENABLE



00361

EAN—13 DISABLE



00360

EAN—8 ENABLE



00371

EAN—8 DISABLE



00370

Symbologies Set Up—1

CODE 11

CODE 11 ID CHARACTER-‘m’

CODE 11 ID CHARACTER‘z’



0131m

CODE 11 LASER/CCD REDUNDANCY - ENABLE
DISABLE



0131Z

CODE 11 LASER/CCD REDUNDANCY -



01321

CODE 39 SS CHAR - NONE



01320

CODE 39 SS CHAR '+'

CODE 39



002700

CODE 39 SEND STAR/STOP CHARS ENABLE
DISABLE



002704

CODE 39 SEND START/STOP CHARS



00281

CODE 39 ID CHARACTER 'a'



00280

CODE 39 ID CHARACTER 'z'



0031a

CODE 39 LASER/CCD REDUNDANCY ENABLE
DISABLE



0031Z

CODE 39 LASER/CCD REDUNDANCY



00331

CODE 39 LASER/CCD REDUNDANCY-ENABLE



00330

CODE 39 LASER/CCD REDUNDANCY-DISABLE

Symbologies Set Up—2

CODE 93

CODE 93 ID CHARACTER 'h'



0066h

CODE 93 LASER/CCD REDUNDANCY-ENABLE
REDUNDANCY-DISABLE

CODE 93 ID CHARACTER 'z'



0066Z

CODE 93 LASER/CCD



00681

CODE 128 ID CHARACTER 'g'



00680

CODE 128 ID CHARACTER 'z'

CODE 128



0081g

CODE 128 LASER/CCD REDUNDANCY-ENABLE
DISABLE



0081Z

CODE 128 LASER/CCD REDUNDANCY-



00841



00840

CODABAR

CODABAR SEND START/STOP CHARS-ENABLE
CHARS-DISABLE

CODABAR SEND START/STOP



00861

CODABAR WIDE GAPS ALLOWED-ENABLE
DISABLE



00860

CODABAR WIDE GAPS ALLOWED-



00901



00900

Symbologies Set Up—3

CODABAR

CODABAR ID CHARACTER-k

CODABAR ID CHARABTER-z



0094k



0094Z

CODABAR LASER/CCD REDUNDANCY-ENABLE
REDUNDANCY-DISABLE

CODABAR LASER/CCD



00951



00950

Interleaved 2 of 5

12OF5 ID CHARACTER-i

12OF5 ID CHARACTER-z



0104i



0104Z

12OF5 LASER/CCD REDUNDANCY-ENABLE
REDUNDANCY-DISABLE

CODABAR LASER/CCD



01051



01050

Industrial 2 of 5

ID2OF5 ID CHARACTER-j

ID2OF5 CHARACTER-z



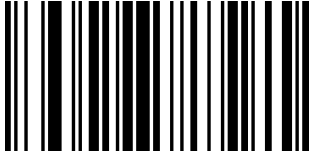
0113j



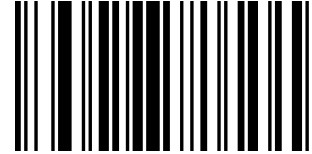
0113Z

ID2OF5LASER/CCD REDUNDANCY-ENABLE

ID2OF5LASER/CCD REDUNDANCY-DISABLE



01141



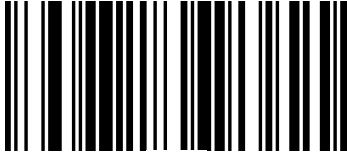
01140

Symbologies Set Up—4

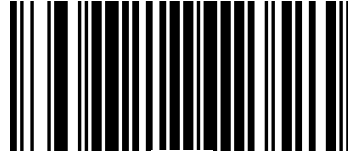
MSI/PLESSEY

MSI ISBN ID CHARACTER-f

MSI ISBN ID CHARACTER-z



0066h



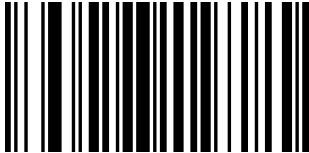
0053Z

0053f

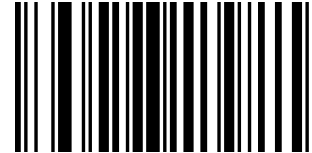
0053z

MSI LASER/CCD REDUNDANCY-ENABLE

MSI LASER/CCD REDUNDANCY-DISABLE



01251



01250

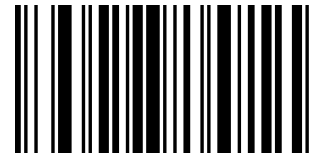
UPC/EAN

EXPAND UPC-E TO UPC-A ENABLE

EXPAND UPC-E TO UPC-A DISABLE



00381



00380

EXPAND UPC-A TO EAN-13 ENABLE

EXPAND UPC-A TO EAN-13 DISABLE



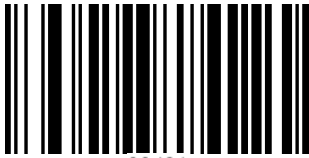
00391



00390

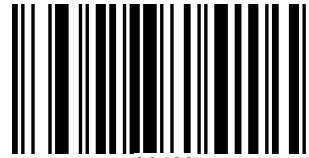
CONVERT EAN-13 TO ISBN ENABLE

CONVERT EAN-13 TO ISBN DISABLE



00481

UPC-A ID CHARACTER-b

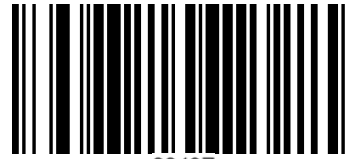


00480

UPC-A ID CHARACTER-z



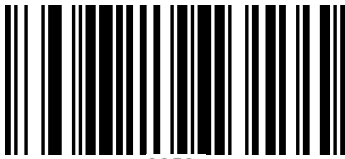
0049b



0049Z

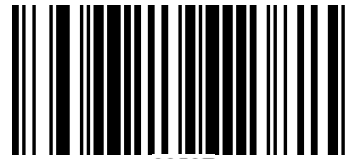
Symbologies Set Up—5
UPC/EAN

UPC-E ID CHARACTER-c



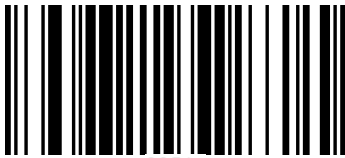
0050c

UPC-E ID CHARACTER-z



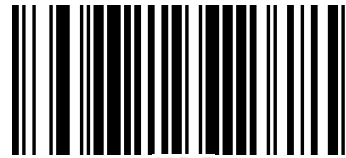
0050Z

EAN-13 ID CHARACTER-e



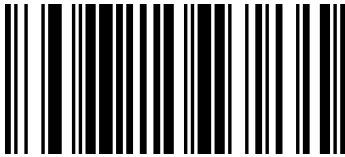
0051e

EAN-13 ID CHARACTER-z



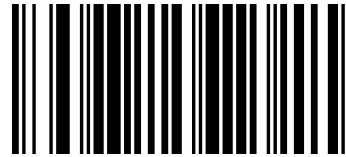
0051Z

EAN-8 ID CHARACTER -d



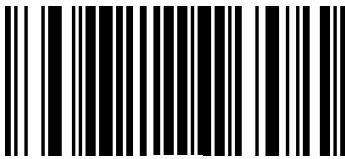
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EAN-8 ID CHARACTER -z



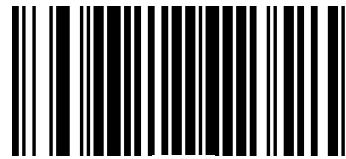
0052Z

ISBN ID CHARACTER -f



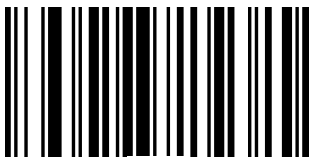
0053f

ISBN ID CHARACTER -z



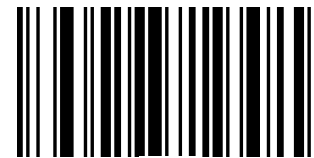
0053Z

UPC/EAN SUPPLEMENTS-DISABLE
ONLY



00550

UPC/EAN SUPPLEMENTS-2DIGIT



00551

UPC/EAN SUPPLEMENTS-5DIGIT ONLY

UPC/EAN SUPPLEMENTS-2DIGIT ONLY



Symbologies Set Up—6

UPC/EAN

UPC/EAN LASER/CCD REDUNDANCY ENABLE
DISABLE

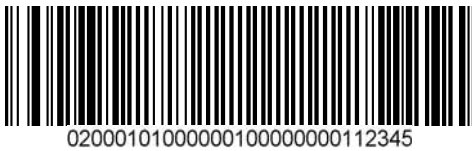
UPC/EAN LASER/CCD REDUNDANCY



EDIT SETUP BAR CODES

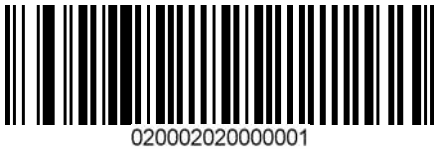
EDIT #1 – STRIP 1 LEADING CHARACTER ON ALL BAR
CODES THAT START WITH ‘12345’

EDIT #1- OFF



EDIT #2 – STRIP 1 TRAILING CHARACTER

EDIT #2 - OFF



EDIT #1 – FILTER LEADING SPACES

EDIT #1 - OFF



EDIT #1 – FILTER TRAILING SPACES

EDIT #1 - OFF



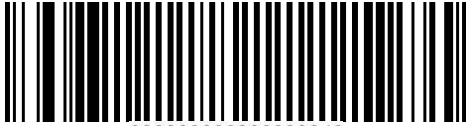
EDIT – FILTER CHARACTERS
CHARS

EDIT-DISABLE FILTERING OF ALL



EDIT-INSERT LEADING ZERO
ZERO

EDIT- DISABLE INSERT LEADING



020000060000000048

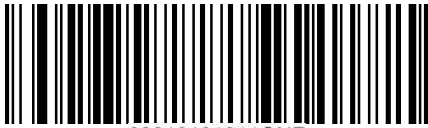


0B20000060000000048

MACRO/SPECIAL KEYS SETUP BAR CODES

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

MACRO #1-DISABLED



02010101011ONE

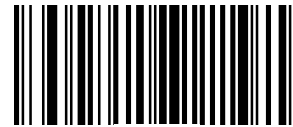


0B20101

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



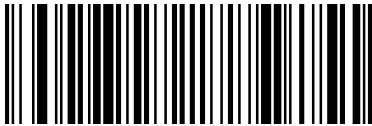
02010203012TWO



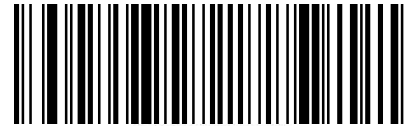
0B20102

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

MACRO-FIND '0' AND REPLACE



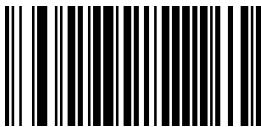
02010001010A



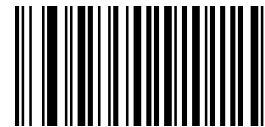
0B2010001010A

SPECIAL KEY-MAP F3 TO '0'

SPECIAL KEY-DISABLE F3 KEY MAPPING



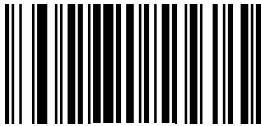
0162048



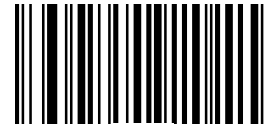
0B162

SPECIAL KEY-MAP KEYPAD ENTER TO '2'
MAPPING

SPECIAL KEY-DISABLE KEYPAD ENTER



0182050

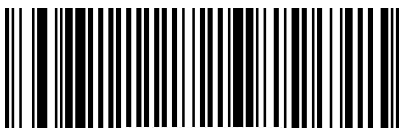


0B182

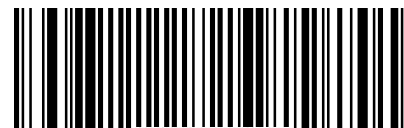
TERMINATION STRING SETUP BAR CODES

STRING#1-TERMINATION CHAR-CR

STRING#1-TERMINATION-LF



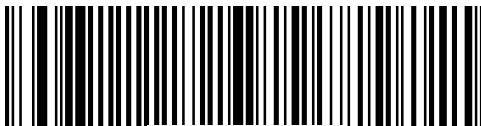
0202011000\$0D



0202011000\$0A

STRING#1-TERMINATION CR+LF

STRING#1-DISABLED



0202011000\$0D\$0A



0B20201

STRING#2-CODE128TERMINA TION CHAR-CR
CHAR-LF

STRING#2-CODE 128TERMINATION



0202021080\$0D



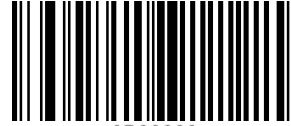
0202021080\$0A

STRING#2-CODE128 TERMINATION CHAR-CR+LF
CHAR-LF

STRING#2-CODE 128TERMINATION



0202021080\$0D\$0A



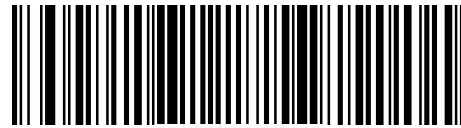
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STRING-CODE 39 TERMINATION CHAR-TAB
CHAR-TAB-REMOVED

STRING-CODE39 TERMINATION



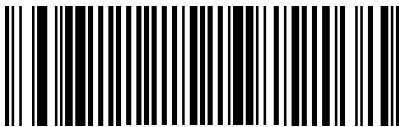
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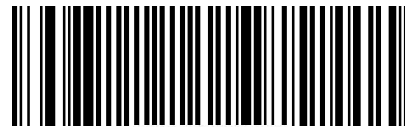
0B202001020\$09

STRING- ALL CODES PREAMBLE-STX

STRING-ALL CODES POSTAMBLE-ETX



0202002000\$02



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 OPTIONS
OPTION

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
000	KEYBOARD WEDGE TRANSMIT SPEED	BYTE	0	99	0-FASTEST
001	SPECIAL CHAR TRANSMIT DELAY	BYIE	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	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	1-8 BITS
009	SERIAL STOP BITS	BIT	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 OPTIONS
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-无
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
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	0	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
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;F2UPC/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

;F2CODE-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

OPTION

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	CHAR	1	1	01DH (ASCII 'GS')

	CHARACTER				
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	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

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 OPTIONS

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 # 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	INDUSTRILA2OF5	BIT	0	1	1-ENABLED

	DECODER				
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

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 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	使用与 UPC/EAN 相同的 ISBN ID			
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	BIT	0	1	0-DISABLED

	REDUNDANCY				
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; 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	1-MEDIUM
144	NO READ LED DELAY	BYTE	0	65	20- (2 SECONDS)
145	LED POWER SAVE MODEBIT	BIT	0	1	0-DISABLED

;F4 DEFINE THE MACRD 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	BYTE	0	255	255- OFF

	MACRO				
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;F3 EDIT SETUP BAR CODE

OPTION					
NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
200	EDIT OPTION	SEE BELOW			DISABLED
	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			
	2 DIGIT 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			

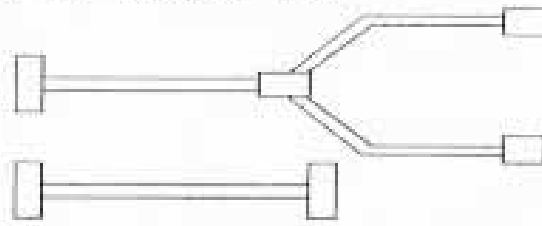
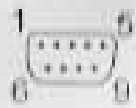
**; F5-STRING SETUP BAR CODE
OPTION**

NUMBER	DESCRIPTION	TYPE	MIN	MAX	DEFAULT
202	STRING OPTION				\$ 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-C Decoder Pinouts and Specifications

Scanner pinouts For Decoder Box



Connector-9pin D Male

- 1.Start of scan
- 2.Bar code Data in (wind Data in)
- 3.Good Read Out
- 4.No Connection
- 5.Loser Trigger in
- 6.Power Enable
- 7.Ground(Wind Ground)
- 8.Shield Ground
- 9.+5 VDC

Rs232 Same as Built-in_Type

KB Connector-6pin Mini-Din Female

- 1.Keyboard Data
- 2.Reserved
- 3.Ground
- 4.+5 VDC
- 5.Keyboard
- 6.Reserved

KB Connector End View



PC Connector-5 pin Din Male

- 1 Keyboard Clock(wind Data)
- 2 Keyboard Data
- 3.Reserved
- 4 Ground
- 5.+5 VDC

PC Connector End View



Pinouts for scanner TTL and Built-in type

TTL Type

Color	Function	9pin D-sub/AMP-F	5pin Din-M	6pin Din-M	6pin mini Din-M
Brown	Start of scan	1	-	6	6
Yellow	Signal data	2	2	2	4
Green	LED idle	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

WIND Emulation Type

Color	Function	9pin D-sub/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 Type

Color	Function	9pin D-sub/AMP-F	25pin D-sub-r
Brown	GND	5	7
Yellow	CTS	6	4
Green	RTS	7	5
Orange	RX	2	2
Blue	TX	3	3
White	Vcc +5V	9	25,15

OCIA Type

Color	Function	8pin Din-M	9pin D-sub-r	10pin
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

RS232/Keyboard TYPE

Color	Function	9pin D-sub/AMP-F	25pin D-sub-r
Brown	GND	5	7
Blue	TX	3	3
White	Vcc +5V	9	25,15
Orange	RX	2	2

Viewed internally



Viewed Externally



9P DB Female Connector

8PIN DIN

10PIN