

# User's Manual

MS140-3 or MS140I-3  
Keyboard Wedge  
Slot Reader

PC Keyboard Wedge Setup Label



## Overview

There are two models of the MS140 decoded slot reader available:

- The MS140-3 keyboard wedge slot reader which supports PC/AT, XT, notebooks and Macintosh computers
- The MS140-2 RS232 interface slot reader that supports computers with RS232 serial port.

Both of these readers support the most popular bar code symbologies, like Code 39, UPC/EAN, Interleaved 2 of 5, Standard 2 of 5, Code 128, Codabar, MSI, Code 11, Code 93, etc.

## MS140-3 Keyboard Wedge

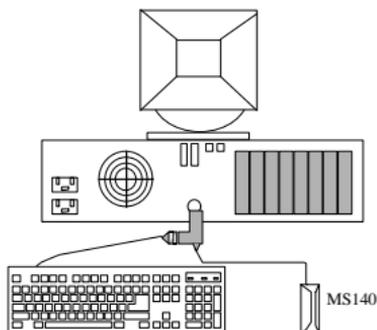
Setup of the keyboard wedge reader can be done in three different ways:

- Via computer keyboard of a desktop PC.  
Or
- By Scanner Configuration Manager Software to configure the scanner setting through the keyboard port.  
Or
- By using the custom labels (batch setup).

## Installation:

The picture below illustrates how to connect the reader to your computer. Follow these procedures for installation:

1. Turn off computer power.
2. Unplug keyboard from computer. Plug the reader into computer's keyboard port and the keyboard into the reader.
3. Turn on power. One long beep from the reader indicates successful power-up.



The default device ID of the reader is set to PC/AT. If your computer is not a PC/AT, please perform the setup on a PC/AT machine first in order to select a correct device ID. The device ID "06" (Keyboardless) is for notebook computers.

## Keyboard Wedge Setup

The reader's behavior can be changed via a setup routine in the reader. Setup can be performed on a PC/AT computer with any text editor program, such as Notepad, WordPad, etc. After the text editor program is running, there are three different ways to enter setup:

- Swipe the "Keyboard Wedge Setup Label" bar code located on the cover page of this manual.  
Or
- Press the left and right SHIFT keys simultaneously within the first 20 keystrokes after computer power up. (This will apply when the reader has device ID set to PC/AT interface only. Swipe the "Enter Setup" label if you have this manual handy.)  
Or
- Use custom labels (batch setup).

When the reader enters the setup mode, a selection menu will be displayed on the screen. Please refer to the MS140 Setup Manual Section.

## MS140-2 RS232 Wedge

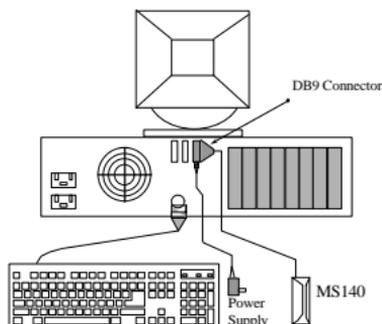
Setup of the RS232 wedge reader can be done in two different ways:

- Through a modem communication utility (such as HyperTerminal).  
Or
- Via custom labels (batch setup).

## Installation:

The picture below shows how to connect the reader to your computer. Use the following procedures for installation:

1. Turn off computer power.
2. Plug the reader into the computer's RS232 port.
3. Turn on power. One long beep from the reader indicates successful power-up.



The default baud rate of the reader is set to 9600, no parity, and 8 data bits.

## RS232 Interface Setup

The reader's behavior can be changed through a setup routine in the reader. Setup can be performed (at 9600 baud rate, 8bits and no parity) with any modem communication utility, such as Windows' HyperTerminal. To enter Setup mode, start the Communication utility on the PC and swipe "RS232 Interface Setup Label" bar code label located on the back page of this manual. On entering the Setup mode, a selection menu will be displayed on the screen as follow:

### MS140 SETUP MENU

Hamster\_S V3.03 Nov.15,2000

Use numeric keys on the top of alphabetic keys for digit input.

0-Device 1-Scanner 2-Barcode 3-MSR 4-Others 5-RS232 6-Default 7-dump

8-Exit

Select==> \_

Follow the prompts and make your selections accordingly. The setup procedure is that simple. (Use Ctrl\_R in lieu of the shift key in a string input procedure. This method allows the user to input ASCII characters into a string.)

## Batch Setup

If more than one scanner needs to be configured, you can duplicate the settings of the Master Scanner to the others. This is done by producing a set of custom setup labels (derived from the master scanner) and then scanning these labels to configure the other scanners. Selecting the Dump command in setup mode or swiping the "Dump Setting" label below will dump the settings of the reader to the screen as one or several ASCII string(s). Use any barcode printing software, select Code 39 symbology, and use the output string(s) to generate barcode labels. You can then scan these batch setup labels to duplicate the settings.



**Dump Setting**

(Feel free to duplicate or photocopy)

## Scanner Configuration Manager

Scanner Configuration Manager is a utility program to configure scanner settings on a computer using the Windows 95/98 operating system. Use the program to define the settings and then download the parameters to the scanner. Download the program from our web site at [www.unitech-adc.com](http://www.unitech-adc.com).

## Selectable Parameters and their Defaults

Parameters	Selections	Default
Keyboard Wedge Device Selection	IBM PC/AT, PS/2 mod 40, 60, 80 etc IBM PS/2 Model 25, 56, 70, 90 Macintosh ADB bus Keyboardless Wedge (Notebook)	<b>IBM PC/AT</b>
RS232 Interface Baud Rate	0-300; 1-600; 2- 1200; 3-2400; 4-4800; 5-9600; 6-19200	<b>9600</b>
Parity	0-Even;1-Odd;2-Mark;3-Space;4-None	<b>None</b>
Data bits	0-7 bits; 1-8 bits	<b>8 bits</b>
CTS/RTS	0-Ignore; 1-RTS Enabled at Power on; 2-RTS Enabled in communication	<b>Ignore</b>
ACK/NAK	0-Off; 1-On	<b>Off</b>
BCC Character	0-Off; 1-On	<b>Off</b>
Xon/Xoff Time out	0-1 sec; 1-3 sec; 2-10 sec; 3-Unlimited	<b>1 sec</b>
Beep Tone	None/Low/Medium/High/Low to High/ High to Low	Medium
Beep Tone (On ACK)	None/Low/Medium/High/Low to High/ High to Low	High
Intercharacter delay	0 ms/1 ms/2 ms/5 ms/10 ms/30 ms/50 ms/100 ms	0 ms
Interblock delay	0 ms/10 ms/50 ms/100 ms/500 ms/1 second/3 second/5 second	0 ms
Function Code	On/Off	On
CapsLock	Auto_trace/Low Case/Upper Case	Auto_trace
Language	US/UK/Swiss/Swedish/Spanish/ Norwegian/Italian/German/French/ Alt Key Mode/Danish	US
Double verification	Off/1~7 On(Verify 1~7 times)	Off
Label Type	Positive /Positive and Negative	Positive
Output of Wand	Bar high, space low/ Bar low, space high	Bar high, space low
Level Duration	200 us/600 us	200 us
Terminator	Enter/Return /Field Exit/None	Enter
Code ID	Disable/Enable	Disable
Define Code ID	00- Code 39 Full ASCII 01- Code 39 Standard 02- EAN-13 03- UPC-A 04- EAN-8 05- UPC-E 06- I 2 of 5 07- Codabar	10- S 2 of 5 11- MSI 12- EAN 128 13- Code 32 14- Delta Code 15- Label Code 16- Plessey Code 17- Code 11

	08- Code 128 09- Code 93	18-Toshiba Code
Data Length	Exclude/ Include	Exclude
Preamble	Define up to 16 characters	None
Postamble	Define up to 16 characters	None
<b>Code 39</b>	Disable/Enable	Enable
	Full ASCII/Standard	Full ASCII
	Check Digit Check and Send/ Check but Not Send/ Not Check	Not Check
	Send/Not Send Start & Stop	Not Send
	Min 0 / Max 48	0 / 48
<b>Interleaved 2 of 5</b>	Disable/Enable	Enable
	Fix Length On/Off (by first three reads)	Off
	Check Digit Check and Send/ Check but Not Send/ Not Check	Not Check
	First Digit Suppressed/ Last Digit Not Suppressed/ Not Suppressed.	Not Suppressed
	Min 4 / Max 64	10 / 64
<b>Standard 2 of 5 / Toshiba</b>	Disable/Enable	Disable
	Fix Length On/Off	On
	Check Digit Check and Send/ Check but Not Send/ Not Check	Not Check
	Min 1 / Max 48	4/48
<b>Code 32</b>	Disable/Enable	Disable
	Leading Character Send / No Send	Send
	Tailing Character Send /No Send	Send
<b>Telepen</b>	Disable/Enable	Disable
	Standard/Numeric Set	Standard
<b>UCC/EAN 128</b>	Disable/Enable	Enable
	Code ID Disable/Enable	Disable
<b>Code 128 / Label Code</b>	Disable/Enable	Enable
	Min 1 / Max 64	1 / 64
<b>MSI / Plessey Code</b>	Disable/Enable	Disable
	CD Send / No Send	No Send
	CD Double Module 10/ CD Double Module 11 Plus 10/CD single Module 10	CD Double Module 10
	Min 1 / Max 16	1 / 16
<b>Code 93</b>	Disable/Enable	Enable
	Min 1 / Max 48	1 / 48
<b>Code 11</b>	Disable/Enable	Disable
	One/Two CD	Two CD
	CD Send / No Send	No Send

	Min 1 / Max 48	1 / 48
<b>Codebar</b>	Disable/Enable	Disable
	Start & Stop Send/No Send	No Send
	CD Calculate & Send/CD Calculate but no Send/CD not Calculate	CD not Calculate
	CLSI Format On/Off	Off
	Min 3 / Max 48	3 / 48
<b>Label Code IV &amp; V</b>	Disable/Enable	Disable
	Checksum Send/No Send	Send
<b>UPC-A</b>	Disable/Enable	Enable
	Leading Digit Send / No Send	Send
	CD Send / No Send	Send
<b>UPC-E</b>	Disable/Enable	Enable
	Leading Digit Send / No Send	Send
	CD Send / No Send	No Send
	Zero Expansion On / Off	Off
	Disable/Enable NSC=1	Disable
<b>EAN-13</b>	Disable/Enable	Enable
	Leading Digit Send / No Send	Send
	CD Send / No Send	Send
	Bookland EAN Enable / Disable	Disable
<b>EAN-8</b>	Disable/Enable	Enable
	Leading Digit Send / No Send	Send
	CD Send / No Send	Send
<b>Supplement Code</b>	Two Add-on Code Off / On	Off
	Five Add-on Code Off / On	Off
	Transmitted if Present/ Must Present	Must Present
	Space Added / Not Added	Not Added
<b>Delta Distance Code</b>	Disable/Enable	Disable
	Check Digit Calculated / Not Calculated	Calculated
	Check Digit Send / No Send	No Check

# User's Manual

MS140-2 or MS140I-2  
RS232 Interface  
Slot Reader

RS232 Interface Setup Label

