

How to Get an Image from the Agilent 54641D Mixed Signal Oscilloscope into a PC*

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There are two ways to get an oscilloscope image into the PC:

1. Use the oscilloscope to save it to a floppy diskette, from which it can be transferred to a PC or
2. Use the procedure set out below to transmit the image over a serial link from the oscilloscope to the PC.

1 Serial Data Exchange

1. Initialize the oscilloscope.
 - (a) Turn on the oscilloscope.
 - (b) Select **Utility** on the oscilloscope.
 - (c) Select **I/O** on the oscilloscope.
 - (d) Make sure **Controller** on the oscilloscope is set to **RS-232**.
 - (e) Make sure **Baud** on the oscilloscope is set to **57600**.
 - (f) Make sure **DTR** is selected on the oscilloscope.
2. Initialize the PC.
 - (a) Open the **Word 54600 Toolbar** program. It will open Microsoft Word and will also open the Agilent IntuiLink for the 54600-Series. Select **Close** to close the welcome message if it appears.
 - (b) If the Agilent 54600 Scope toolbar is floating in an inconvenient place, you can drag it with the mouse to join the other toolbars at the top of the window.
 - (c) Select the **Connect to Scope** icon on the Agilent 54600 Scope toolbar. This will open the Agilent 54600 Scope Control Properties dialog window.

*Course notes for EE461 Microprocessor-based Digital Design

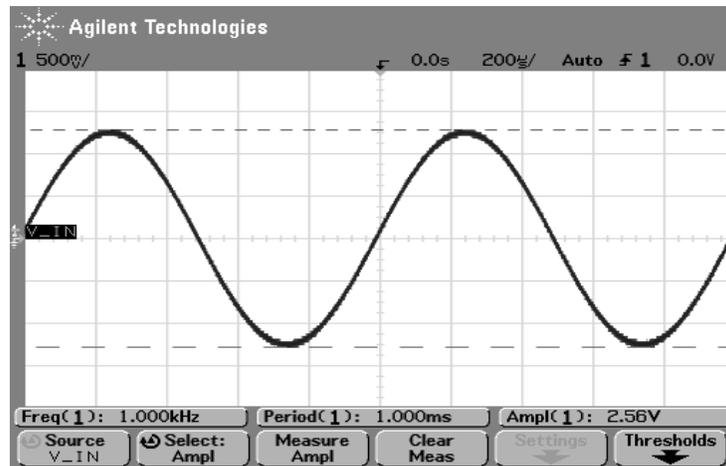


Figure 1: Test Wave

- (d) Select the Search Criteria tab in the Agilent 54600 Scope Control Properties dialog window.
 - (e) Under the Search Criteria tab
 - Select the Find Ports button. The PC should find the COM1 port.
 - Set the Baud rate to 57600.
 - Set the Parity to None,8.
 - Set the Handshake to DRR/DSR.
 - (f) Select the Search Instruments tab in the Agilent 54600 Scope Control Properties dialog window.
 - (g) Under the Search Instruments tab
 - Select the Search button. The PC should find the Agilent 54641D device attached to the PC.
 - Select the OK button to close the Agilent 54600 Scope Control Properties dialog window.
3. You may now acquire oscilloscope plots within Microsoft Word by selecting the Get Screen Image button on the Agilent 54600 Scope toolbar.
 4. A Get Screen Image dialog should appear. You may choose either to have the image inserted into a Word document at the point of the current cursor or saved (in bitmap format) to a file. An example of the result is shown in Figure 1.