User Guidance

Verisys Analyser Quick Start Guide

Reference No 30-0022-01-0-1

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VERISYS ANALYSER QUICK START GUIDE

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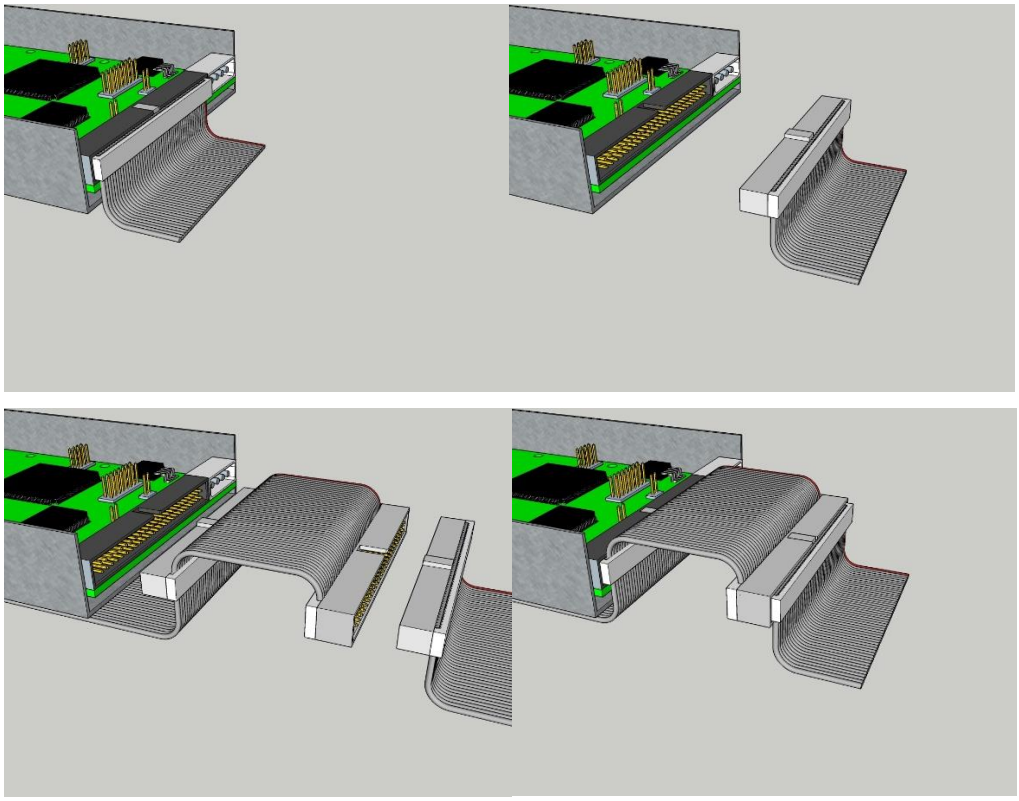
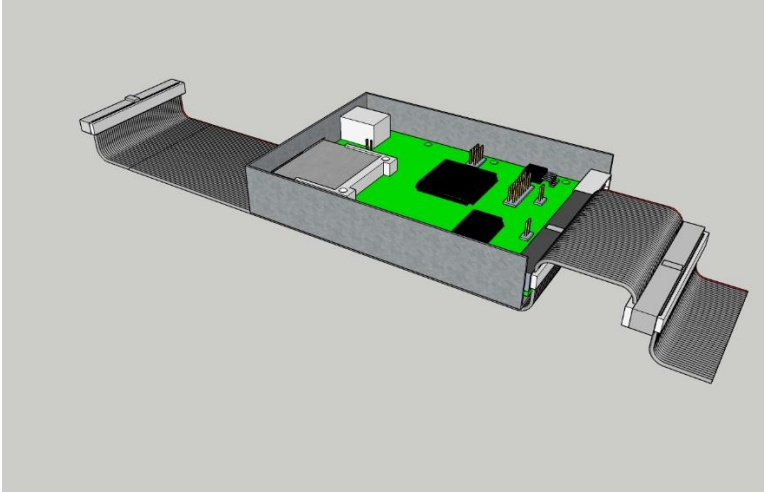
Contents

1.0 Connecting The Analyser

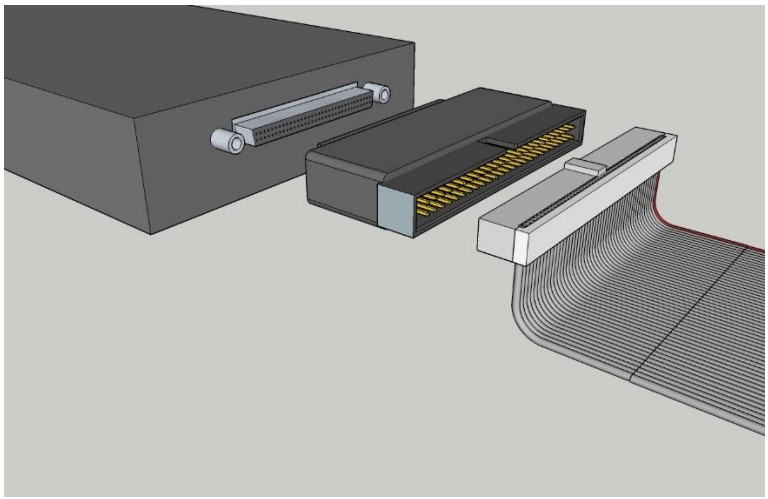
Unplug the existing ribbon cable from the host system and insert the analyser cable as in the following diagrams.



The cable as supplied naturally wants to route itself underneath the SCSI emulator as in the above diagram. If this is not possible then you will have to route the cable above the emulator as best as can be done without disconnecting the host system cable.



Connect the Analyser pod using the 68 to 50 pin adaptor as follows



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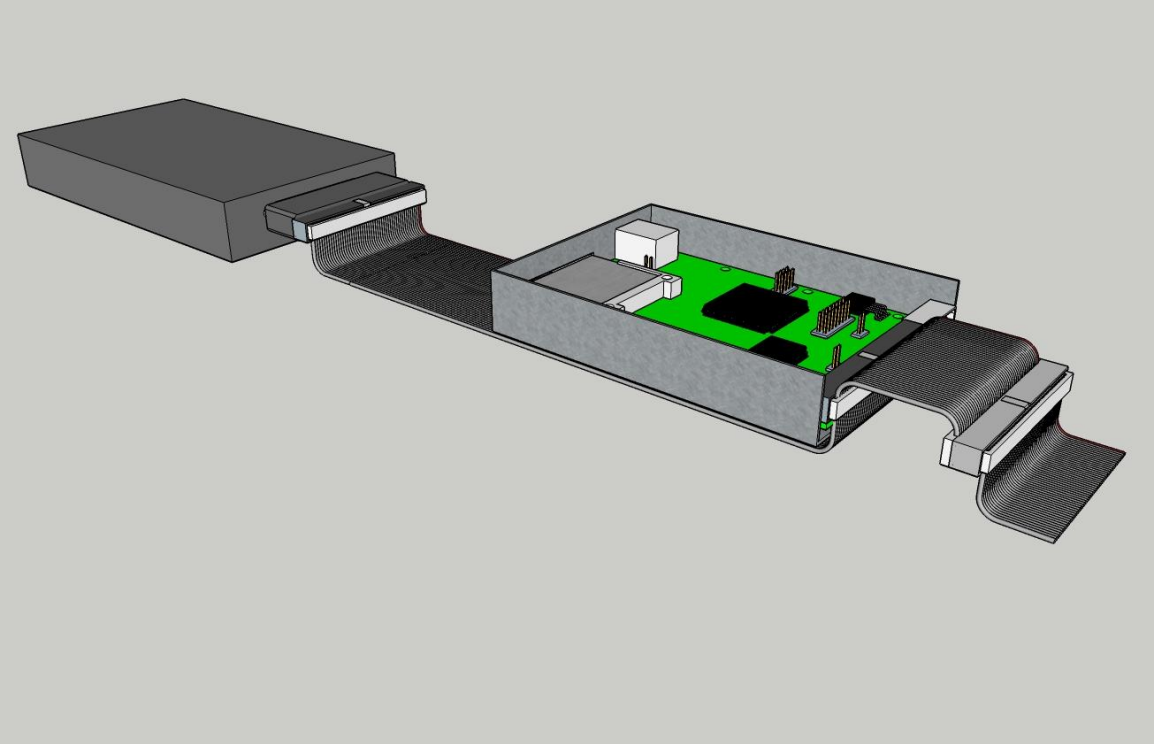
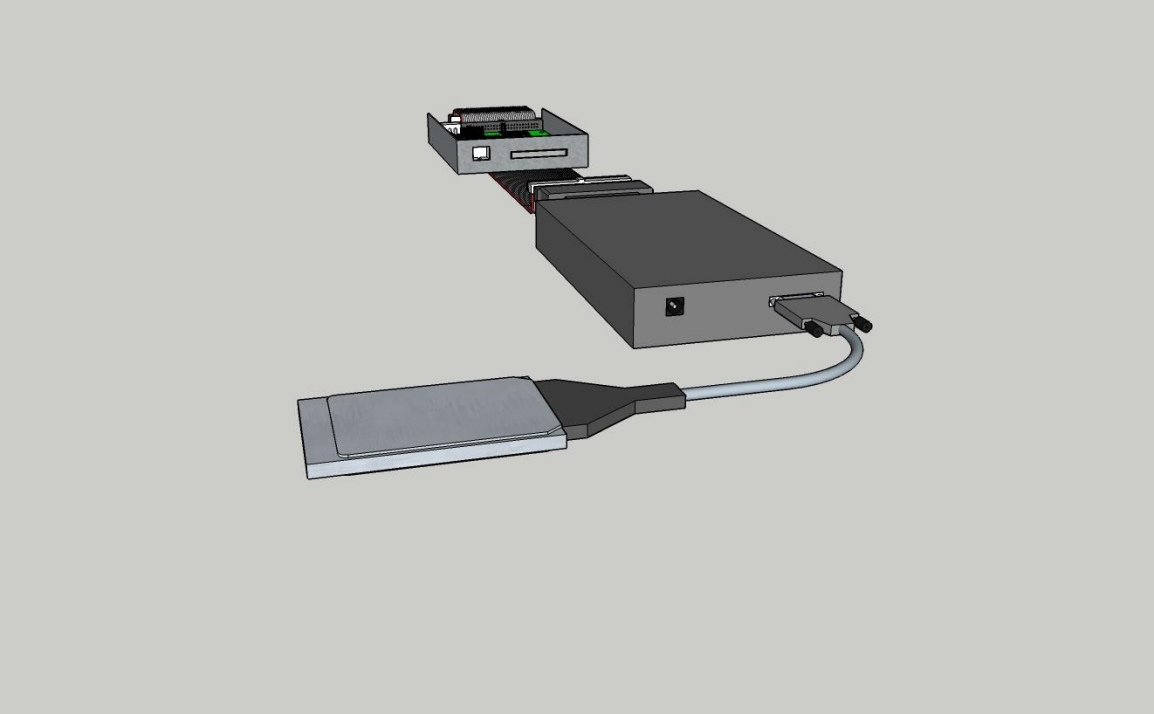




2.0 Running The Application.

Once everything is connected run the SCSI-View application

You should briefly see the following boiler plate message like this

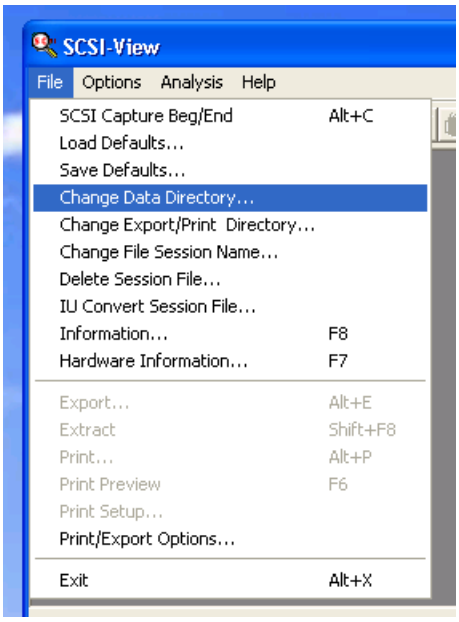
If it doesn't disappear automatically after a few seconds then something is wrong and you should recheck all the connections, if necessary, restart the laptop after checking.

If the supplied analyser pod has a status LED on its side then this will light up after the message disappears to indicate that all is well. You will be presented with a window like this

2.1 Setting up the Trace File Folder.

Trace files made by the analyser needed to be stored somewhere logical where they can be easily found.

Create a suitable folder for the files, probably on the PC desktop, and then click the **File** menu and select **Change Data Directory** and navigate to the required folder.

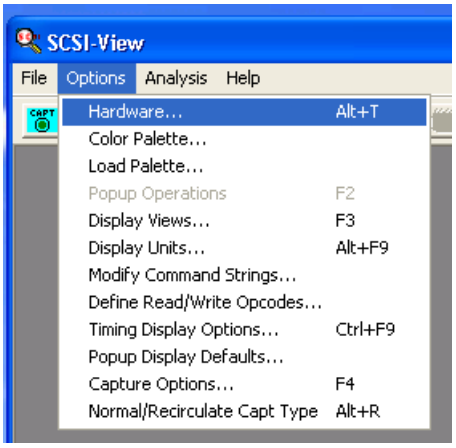


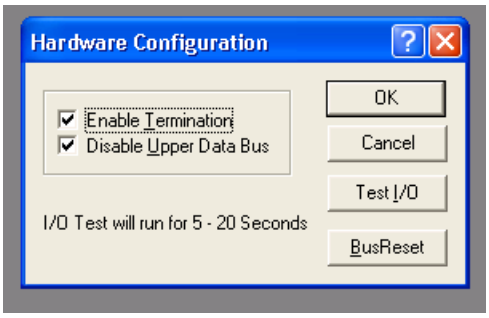
2.2 Configuring the Settings.

For every new investigation the following settings are required at the start. To check they are correct follow this procedure. From time to time SSD Ltd may request other settings but in any always start with these settings.

2.2.1 Check Hardware Settings

Click the **Options** Menu and select **Hardware…**

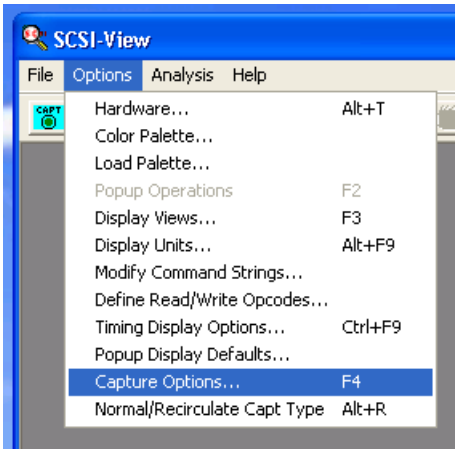


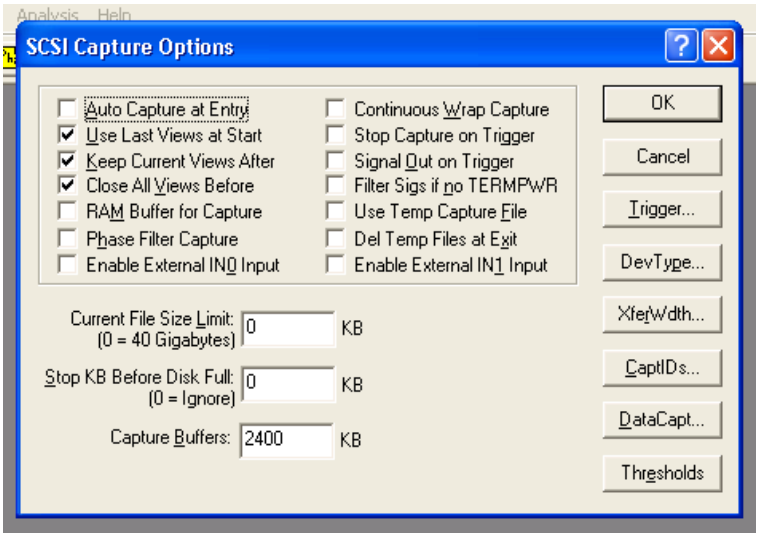


Make sure both boxes are ticked. If the drive that the analyser connects to, real or emulator, has termination fitted then it should be removed if possible because termination moves over to the analyser when the box is ticked.

2.2.2 Capture Settings

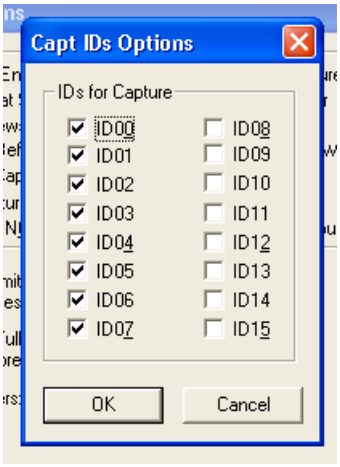
Click the **Options** menu and select **Capture Options…**



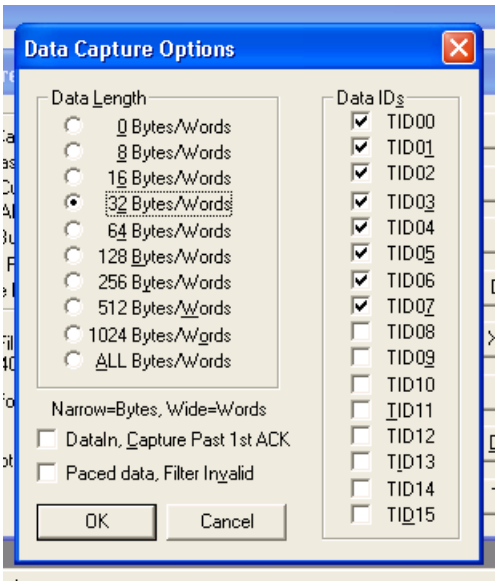


Check that the correct boxes are ticked.

Click the **CaptID s...** button and check that the tick boxes match the following.



Lastly click the **DataCapt...** button and check for the following.



2.3 Making a Trace.

We are now ready to make a trace. Typically SSD Ltd will want to make a trace in the following circumstances.

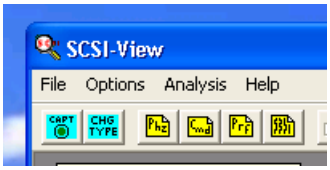
- A trace of the SCSI sequence from power up.
  - Start the analyser running first
  - Then power up the system
  - Stop the analyser once the power up sequence is complete.
- A trace of the SCSI sequence resulting from cold staring the SCSI controller with a command.
  - Start the analyser running first
  - Then run the start up command
  - Stop the analyser once the start up sequence is complete.
- A trace of the SCSI sequence resulting from running a system console command. For example a backup or restore command, a format command or some other initialisation command.
  - Start the analyser running first
  - Then run the command
  - Stop the analyser once the start up sequence is complete.

- Sometimes we want to run the power up and initialisation commands all in one trace but generally it is better to have each in a separate trace file as it is difficult to tell from the trace when a given command was executed.
- Very rarely we might ask to run a trace on an already running system. In this case typically we would say
    - Start the analyser.
    - Wait a few seconds
    - Stop the analyser.

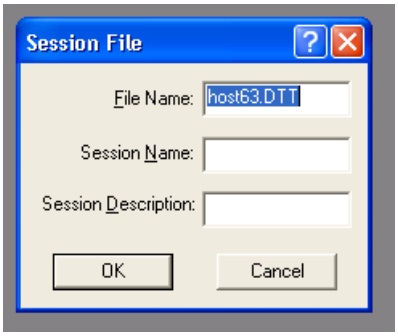
Note: it is very important that the exact same sequence is followed each time a trace is made of the same event. Even running an extra status check that wasn't run before could change the way the SCSI bus is used. If there is an unexpected difference in the sequence then we won't know if a fix we are trying actually changed anything.

2.4 Making a Trace

We use these buttons for all capture sessions.



To make a capture press the **CAPT** button  . You will be asked for a file name.



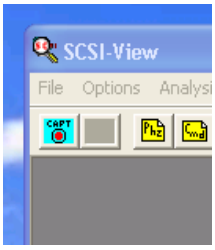
Type in a suitable name for the capture file. Don't worry about adding the .DTT extension SCSIView will add that for you. SCSIView will also add a number each time a capture is run so that you don't have to type in a new name each time, just click OK in that case.

It is useful but not essential to fill in the other 2 boxes.

Session Name typically should describe the over session purpose, e.g. "AXE system Tape drive".

Session Description should describe what the individual trace is about, e.g. "INIT command".

Now click OK to start the trace running. The **CAPT** button indicator should turn red.



To stop the trace click the **CAPT** button  again, It may take a while to save all of the data.

In normal use the **CAPT** button is all the indication you will get that something is happening unless you have a pod with an indicator LED which will flash. However, it is possible to watch the trave live.

2.5 View a Capture Session Live

Live view is controlled by these buttons. 

To view an ongoing trace press the **Phz** button  , button changes to look like this 

And the window should display lave SCSI bus traffic.