



plug & play instruments  
oscilloscopes

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## Upgrading Cleverscope

### Important

#### Upgrade to Runtime Library

The latest Cscope v34xx.zip file this was extracted from has been built using Labview 7.1 which is the latest iteration of Labview. The runtime for Cleverscope is now different from the runtime used for Cscope v33xx.zip. Before attempting to use the accompanying Cleverscope.exe you must have the new runtime library installed. You can tell which one you currently have by running Cleverscope and going Help/About Cleverscope. Look at the version number. If the version starts with 3.3xx you have the previous runtime, and you must load the complete install off the website, and run that. If the version starts with 3.4xx then you can safely copy the attached Cleverscope.exe over the top of the old one.

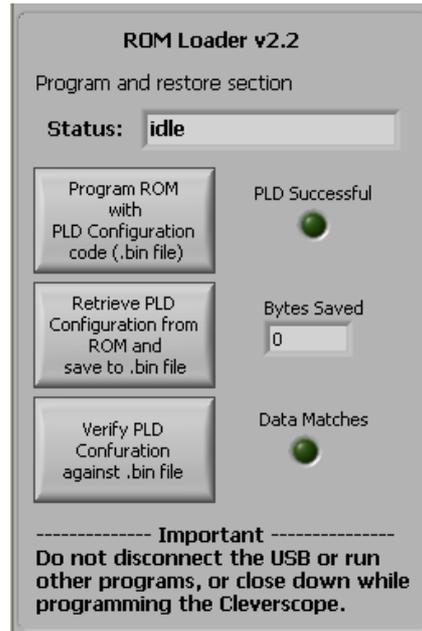
#### Change to Operating System compatibility

The new Labview 7.1 runtime is now only compatible with Windows NT SP5+, Windows 2000 and Windows XP. It is **no** longer compatible with Win 98 or Win ME. You cannot run the attached Cscope v34xx.exe on a Win 98 or Win ME machine. If you wish to use Win 98 or Win ME, please send a request to [info@cleverscope.com](mailto:info@cleverscope.com), and we will send you a link to download the application with the runtime library compatible with Win 98 or Win ME. Currently both applications have the same capabilities. However, we plan to leverage of some of the Labview 7.1 capability that is not available in earlier run times, and for this reason we recommend usage on Win XP or Win 2000 machines.

### Upgrading the Cleverscope system

To upgrade Cleverscope please carry out the following actions:

1. Down load and extract the latest Cleverscope v34xx.zip file into the \Program Files\Cleverscope directory where Cleverscope was initially installed.
2. Connect the Cleverscope power supply, and turn on. Connect the USB cable from the Cleverscope to the PC. Do not connect any other cables.
3. Navigate to the \Program Files\Cleverscope installation directory. Double click on the 'ROM Loader.exe' file to start ROM Loader. You should see this control panel:



4. Click on the 'Program ROM with PLD Configuration code (.bin file).
5. Navigate to the \Program Files\Cleverscope installation directory and select the latest binary file.

**EXTREMELY IMPORTANT:**

You must choose the correct binary file.

Use Cleverscope cscope\_v52xx.bin for version 2 hardware (without Sig Gen port or hole) and Cleverscope cscope\_v53xx.bin for version 3 hardware (with Sig Gen port or hole)

Do not program the wrong file, or the unit will have to be returned to the factory.

6. The ROM Loader will now proceed to program the Cleverscope. Do not turn off the computer, or start any other programs, or burn CD-ROMs during this process. The status indicator will show progress in 12.5% increments.
7. When the status is 'Write Complete', the Cleverscope has been re-programmed.  
**IMPORTANT:** You **must** verify the download happened correctly. Please click on the 'Verify PLD Configuration against .bin file'. Rom Loader will upload the Cleverscope configuration, and then ask you to navigate to a file to compare it with. Choose the same file that you programmed. The status should show 'PLD Verify Complete' and the 'Data Matches' indicator should be on. If not, **re-program again**. We have found that sometimes the writer does not completely update the Cleverscope serial ROM on the first pass, for older version 2 configurations.
8. Close the ROM Loader, by clicking on the close box.
9. Turn off the Cleverscope power, wait two seconds, and turn it back on.
10. Start the Cleverscope application – either from the start menu, or from the desktop icon. (The file cleverscope.exe should have written over the old one).
11. Without any connections to the front panel, select Options/Calibrate Cleverscope. Start the calibration. This will take about 7 minutes, so have a cup of tea!
12. When calibration is finished, your Cleverscope should be ready to use. You may find that you will need to re-open/close windows in use, and change scales on first use. Following first use, all your settings will be remembered.
13. Good luck!