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## Installing or updating the driver (including Vista)

Cleverscope has recently updated the USB driver to be based on the National Instruments VISA system. This improves reliability, provides access to Vista 64, and allows us to implement an Ethernet based connection. All future versions of Cleverscope will use NI-VISA.

If you are not certain if you already have the NI-VISA driver installed, follow the instructions below.

Follow these steps to check for NI-VISA and install the latest Cleverscope USB driver.

- 1. Unzip the update into your Program Files/Cleverscope Directory. This will place a directory labelled 'Cleverscope USB driver' into the Cleverscope directory.
- Next you need to determine if NI-VISA is already installed. There is no need to install it again! Choose the 'Start' menu command and see if you can navigate to 'National Instruments/Visa/Documentation/NI-VISA Readme'. If so, you have NI-VISA installed. If not, you will need to install it now.

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To install the NI-Visa system navigate to Program Files/Cleverscope/Cleverscope USB Driver. Locate the entry 'NIVISAruntime.msi' (the directory is shown here to the side). Double click on the NIVISAruntime.msi entry, and follow the instructions to install NI-VISA. If you have Vista 64, please contact us at <u>support@cleverscope.com</u>, because we need to supply you with a different NI-Visa.

Once that's done, use Start/Settings/Control Panel and then click on the 'System' item.



3. Choose the Hardware tab, and click on 'Device Manager'.

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4. Check the entries on the device manager display. You will see one of two displays:



- 5. If the display shows the NI-Visa driver, then there is no need to update the driver. However, if the display shows a CS328A Mixed Signal Oscilloscope entry under Universal Serial Bus controllers, you will need to update the driver.
- 6. Right click on the 'CS328A Mixed Signal Oscilloscope Entry, and choose the 'Update Driver..' entry.



7. The 'Welcome to the Hardware Update Wizard' will appear. Choose 'No, not at this time', and click next'.

Hardware Update Wizard			
	Welcome to the Hardware Update Wizard		
	Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). <u>Read our privacy policy</u>		
	Can Windows connect to Windows Update to search for software?		
	<ul> <li>Yes, this time only</li> <li>Yes, now and every time I connect a device</li> <li>No, not this time</li> </ul>		
	Click Next to continue.		
	< <u>B</u> ack <u>N</u> ext > Cancel		

8. Click on 'Install from a specific location (Advanced) and click Next

Hardware Update Wizard	
	This wizard helps you install software for: CS328A Mixed Signal Oscilloscope If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do?
	<ul> <li>Install the software automatically (Recommended)</li> <li>Install from a list or specific location (Advanced)</li> </ul>
	Click Next to continue.
	< <u>B</u> ack <u>N</u> ext > Cancel

9. Click on 'Don't search. I will choose the driver to install', and click Next.

Hardware Update Wizard				
Please choose your search and installation options.				
Search for the best driver in these locations.				
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.				
Search removable <u>m</u> edia (floppy, CD-ROM)				
✓ Include this location in the search:				
D:\APC\Cscope Installation Disk\Cleverscope USB 📀 Browse				
Ont search. I will choose the driver to install.				
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.				
< <u>B</u> ack <u>N</u> ext > Cancel				

10. If you see 'Cleverscope CS328A MSO' or 'Cleverscope CS328A MSO Vista' choose the one appropriate to your operating system, and click Next. Move forward to step 14. If you cannot see either of these, choose any Cleverscope model, **but** click on 'Have Disk', and click Next.

Found New Hardware Wizard				
Select the device driver you want to install for this hardware.				
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.				
Model				
Cleverscope CS328A MSO CS328A Mixed Signal Oscilloscope				
This driver is not digitally signed!     Have Disk       Tell me why driver signing is important     Image: Second Se				
< <u>B</u> ack <u>N</u> ext > Cancel				

11. Navigate to the Program Files/Cleverscope/Cleverscope USB Driver directory, and choose either Cleverscope CS328A.inf for XP systems, or Cleverscope CS328A\_vista.inf for Vista systems. Click 'Open'. If you have a Vista 64 system you will need to contact us at support@cleverscope.com.

Locate File						?	×
Look in: ն	Cleverscope USB Driver	~	G	Ø	Þ	•	
Cleverscope CS328.inf Cleverscope CS328A.inf Cleverscope CS328A_vista.inf							
File <u>n</u> ame:	Cleverscope CS328A.inf		1	~		<u>O</u> pen	
Files of type:	Setup Information (*.inf)		ŀ	~		Cancel	

12. Click 'OK'.



13. Choose the correct description ('Cleverscope CS328A MSO' for XP or 'Cleverscope CS328A MSO Vista' for Vista operating systems. Click 'Next'.

Hardware Update Wizard				
Select the device driver you want to install for this hardware.				
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.				
Model				
Cleverscope CS328A MSO				
Cleverscope CS328A MSO Vista				
This driver is not digitally signed!     Have Disk       Tell me why driver signing is important     Important				
< <u>B</u> ack <u>Next</u> > Cancel				

## 14. Click Next. Click Continue anyway.

Hardware Update Wizard			
	Completing the Hardware Update Wizard		
	The wizard has finished installing the software for:		
	Cleverscope CS328A MSO		
	Click Finish to close the wizard.		
	< <u>B</u> ack <b>Finish</b> Cancel		

- 15. Click Finish. The driver should be installed. Note that you will need to set the correct driver for every port on your machine. This is usually done automatically when you plug the Cleverscope into a port that has not been previously configured.
- 16. Now you should see the NI-Visa device as shown:



17. Start up the application, and verify communication using the 'Auto' button. Note that we suggest that you have firmware version 6430 or later loaded.