

NVTweak v1.7.1 README  
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<http://nvtweak.laptopvideo2go.com/>

**About NVTweak:**

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NVTweak unlocks many extra options in the NVIDIA control panel/driver, including but not limited to - Overclocking, AGP & Hardware settings, Fan control, Temperature settings, Debugging, Twin View, Video Mixing Renderer, OpenGL 2.0 support, 3D viewer types (for 3D Stereo drivers), and more!

**Features:**

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*AGP & Hardware Settings*

- AGP Rate
- Fast Writes
- Sideband addressing

*Coolbits (Overclocking)*

- Auto Overclocking
- Manual Overclocking
- Separate 2D/3D settings
- Fan Control

*OpenGL 2.0 support*

- GL\_ARB\_fragment\_shader
- GL\_ARB\_shader\_objects
- GL\_ARB\_shading\_language\_100
- GL\_ARB\_vertex\_shader
- GL\_ARB\_point\_sprite
- GL\_EXT\_blend\_func\_separate
- GL\_SUN\_slice\_accum
- GL\_EXT\_stencil\_two\_side

*Preconfigured nView Profiles*

- advanced
- cad
- dcc
- finance

*Refresh Rates*

- Application Controlled
- Overrides

*Temperature settings*

- Notify when GPU core temp exceeds threshold

*Twin View*

- Single Display
- Clone
- Horizontal Span
- Vertical Span
- Dualview

*Video Overlay*

-VMR

### *3D Stereo Viewer Types*

- DDC VGA glasses
- Dual VGA Output
- Horizontal Interleaved
- Vertical Interleaved
- White line code glasses
- Blue line code glasses
- Anaglyph
- Sharp 3D Display
- Direct 3-Pin DIN VESA Connect

*And more...*

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**IMPORTANT!**  
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This tweak is intended for use with GeForce/Quadro cards and ForceWare 55.xx - 7x.xx 3D Stereo drivers. NVTweak is not fully compatible with Windows 98/Me or driver versions older than 55.xx. If you do happen to run this tweak with older software, you could get errors at startup! To enable full compatibility, you will need to disable the options that are causing issues with your current setup.

NVTweak allows you to operate a graphics card out of normal specifications by overclocking and/or modifying how the driver operates. You should always use the overclocking utility with extreme care! I will not be held responsible for any damage that may result from the improper use of this program.

### **Installation:**

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First uninstall any previous versions of the utility. Then double-click the installation file to run setup. After completing setup, NVTweak will open automatically and you may now tweak to your liking. Check your NVIDIA properties (you DO NOT have to exit the program or reboot), and you will see many new configurable options in the NVIDIA control panel. To get to these options, right-click on your desktop and go to 'NVIDIA Display' (Win XP/2003).

Optionally, you can import the Quadro nView profiles (found on my homepage) using the Desktop Management profile manager within the driver. Once all of the profiles are imported, use the Desktop Management Wizard to load the profile of your choice. You may be asked to log off and back on again depending on which options you choose.

### **Uninstall:**

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Press the 'Restore Defaults' button on the NVTweak dialog and exit the program. Remove the NVTweak application by using Add/Remove Programs in the Windows control panel (or the Uninstall shortcut on the programs menu).

### **FAQ:**

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Q. I don't see the temperature settings, is this due to my card?

A. The temp settings panel is only available with cards equipped with thermal sensors. Some cards that I know of have temp sensors are 5700U, 5800U, 5950U, and 6800GT/U. But really it all comes down to the manufacturer. I have seen some 5700 and 5900 without temp sensor, but mainly the cheaper XT/LX/SE versions.

Q. The Fan always on doesn't seem to work.

A. The 'fan always on' option is for cards with the OTES (i.e. 5800U) or similar cooling system in which shuts off in 2d mode. It will force fan on even in 2D mode. Of course this means the fans on the HS/F be designed such a way that this option can work.

Q. I thought it enabled OpenGL 2.0? It doesn't though.

A. OpenGL Shading Language 2.0 can only be enabled on 55.xx and higher ForceWare drivers. It had not yet been implemented in older Detonator or pre 55 ForceWare drivers. 6x.xx drivers are GLSL ready, so enabling this option isn't absolutely necessary.

Q. Why does my Operating System report 2x AGP, but my card is 4x/8x?

A. Ask Microsoft! This is not a Coolbits or NVIDIA driver bug. 3Dmark and/or Sandra still reports 8x AGP.

#### **Version History:**

##### *Changes in v1.7.1*

- Added a link to H4ck 3D homepage on the About dialog
- Prevent multiple instances of the application from running in memory
- Updated DeviceIDs and Strings text files to coincide with Pieter's Modded INF v30.51 (INF Editor)
- New tool, NVTray (currently only in beta stage)
- Added option under Settings menu to load the display properties panel
- Replaced DeviceIDs and Strings forms with notepad.exe to allow user modification (INF Editor)
- Added advanced memory and file system tweaks to improve overall system performance
- New convenient setup build using InstallShield

##### *Changes in v1.6.2b*

- Added support for Windows Server 2003, Enterprise Edition

##### *Changes in v1.6.2*

- Added option to enable/disable Refresh Rate Overrides page
- Updated DeviceIDs and Strings text files (INF editor)
- Included a Setup File to create program group and install necessary .dll files

##### *Changes in v1.6.1*

- Added option to Allow NT5 Device Swap
- Added option to enable/disable Dualview Move Desktop Icons
- Fixed overflow bug when jumping to [Strings] section in abnormally long INF files (INF Editor)

- Added option to copy All known resolutions to clipboard (INF Editor)
- Added option(s) to Jump To resolutions, driver date, and version # (INF Editor)
- Now prompts to save upon exiting when contents have changed (INF Editor)
- Added option(s) to view Device IDs and Strings for all current nVidia GPUs (INF Editor)
- Set default focus to the 'Enable All' a.k.a 'Coolbits 3D' button
- Fixed issue with scrollbars not being resized properly (INF Editor)
- Modified and included a README with the utility

#### *Changes in v1.5.2*

- Added option to apply Coolbits 3D
- Added option to ignore OS Rotation Limitation
- Corrected labeling of Quadro specific options
- Fixed minor error in Coolbits options code
- Added option to enable/disable Screen Menu Page
- Added option to enable/disable nView Tray Menu
- Added option to restore defaults
- Added option to enable/disable Overscan Shift
- Fixed error in HLink.ocx on some systems when viewing the About dialog
- Renamed Coolbits 3D button to 'Enable All'
- Added option to minimize to taskbar
- Added INF Editor utility
- Added error handling code to Open and Save As dialogs
- Updated INF editor utility to jump to Device ID and String sections
- Updated program description and legal copyright © on NVTweak Properties dialog

#### **Credits:**

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I'd like to give a big thanks to everyone at [www.nvnews.net](http://www.nvnews.net) and [www.mvktech.net](http://www.mvktech.net) for their help and support. Also, Pieter at [www.laptopvideo2go.com](http://www.laptopvideo2go.com), for his time and effort in providing us with the latest NVIDIA drivers with modified INF files. And last but certainly not least, Waffell web solutions for providing us with fantastic web hosting services. =)