# Gaia 3D Quick Start

# Step 1 – Installation

1. Run your installer (either from your DVD/USB stick if provided or from the download)



2. You are presented with the *Welcome* screen, Click *Next*.

🎴 Gaia 3D Viewer Setup	
	Welcome to the Gaia 3D Viewer Setup Wizard
	This wizard will guide you through the installation of Gaia 3D Viewer.
	It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer. Click Next to continue.
	Next > Cancel

3. On the license screen, read and accept the agreement to continue.

🤰 Gaia 3D Viewer Setup		×
Yaia	License Agreement Please review the license terms before in	installing Gaia 3D Viewer.
Press Page Down to see the	rest of the agreement.	
By downloading or using thi following terms and condition	is software or accompanying documentations.	on you agree to the 🔺
nonexclusive, world-wide, o program and assets ("Gaia and object code form. Exc	personal, non-transferable and non-sublice copyright license to publicly display, publicl 3D Viewer") and any such derivative work ept for the copyright license above, you a stion, or estoppel, or otherwise, under an	ly perform, the ss, in source code are granted no other
If you accept the terms of t agreement to install Gaia 3D	he agreement, click I Agree to continue. Y ) Viewer.	(ou must accept the
I agree		
	< <u>B</u> ack Ne	ext > Cancel

4. Choose where you would like to install the software, or leave it as default (recommended).

aia 3D Viewer Setup 🎴	
Yaia	Choose Install Location Choose the folder in which to install Gaia 3D Viewer.
	Viewer in the following folder. To install in a different folder, click er folder. Click Next to continue.
Destination Folder	6)\Gaia 3D Viewer
Space required: 7.0GB Space available: 685.6GB Gaia Technologies Plc ——	3
	< <u>B</u> ack Next > Cancel

5. Select the *Start Menu* folder in which you would like to create the program's shortcut.

YOUTO	Choose Start M Choose a Start	<b>4enu Folder</b> Menu folder for the Gaia 3D Vie	ewer shortcuts.
	u folder in which you wou ne to create a new folder.	Id like to create the program's	shortcuts. You
Gaia 3D Viewer			
3DVIA Accessories Administrative Tools Adobe Adobe Master Colle Allegorithmic ArcSoft Connect ArcSoft MediaConvi Autodesk AutoUpdate Builder AVS4YOU	erter 2.5		- III
iaia Technologies Plc –	ortcuts		

6. Click Install.

# **DLP Projector Cables**

## Configuring a DLP Projector using a VGA cable.

The picture below illustrates how a typical **VGA cable** would connect from the PC to the Projector. The Quadro graphics card does not come with a VGA port, and will require a **DVI to VGA adaptor** . (Usually supplied separately)



It is possible to be able to view the content in 3D, without the use of a 3D graphics card. This will depend on the type of 3D projector you have available.

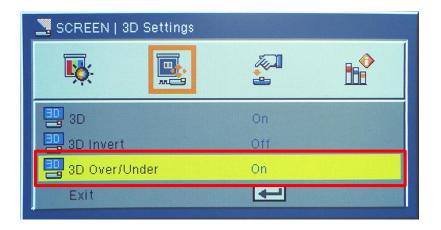
The majority of 3D enabled projectors have a functionality known as either top-bottom (vertical) or side-by-side (horizontal). If you are unsure whether this functionality is available for your projector, you can check the technical specifications or have a look at the menu on the projector.

### Configuring for use without a 3D graphics card

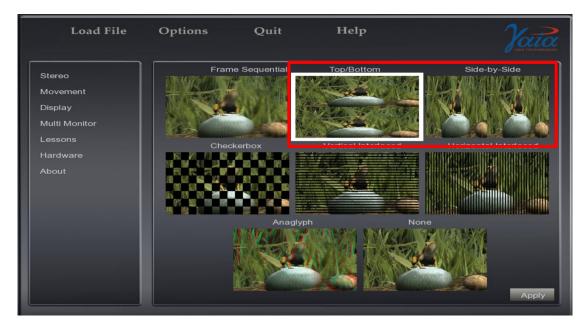
#### **PC configuration**

With the projector connected to the PC (either via VGA or HDMI connection), right click on the desktop and click on **Screen Resolution** ensure the projector screen resolution is on its native setting.

Access the projector menu (example below) and ensure that the top/bottom (in this case, the manufacturer has named it Over/Under) is selected. Please note that different projector manufacturers use different menu systems.



Launch the 3D software and select the **Options** menu. By default this will set to **Frame Sequential**. Change the option to either **Top/Bottom** or **Side-by-Side**. This will of course depend on whether type of projector used (as mentioned previously).



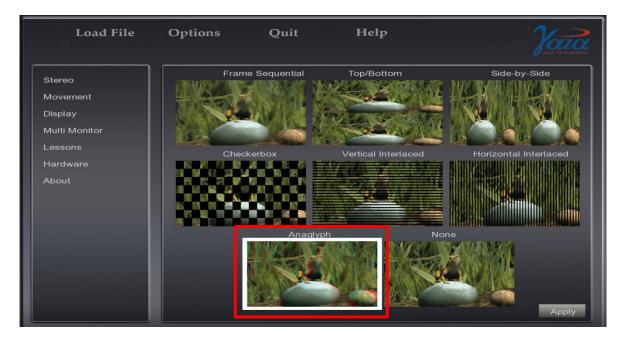
Click Apply. You will need to restart the software for it to take effect.

### Anaglyph

Gaia 3D can also be used with anaglyph 3D. This is 3D that uses red and blue lensed glasses. Please note that there are other, different coloured lenses available for anaglyph but Gaia 3D uses red and blue.

Anaglyph does not require you to change any settings either on the projector or the PC, as it works purely from the coloured lenses.

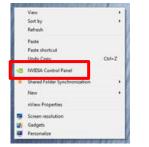
Launch the 3D software and select the **Options** menu. By default this will set to **Frame Sequential**. Change the option to **Anaglyph** and click **Apply**.

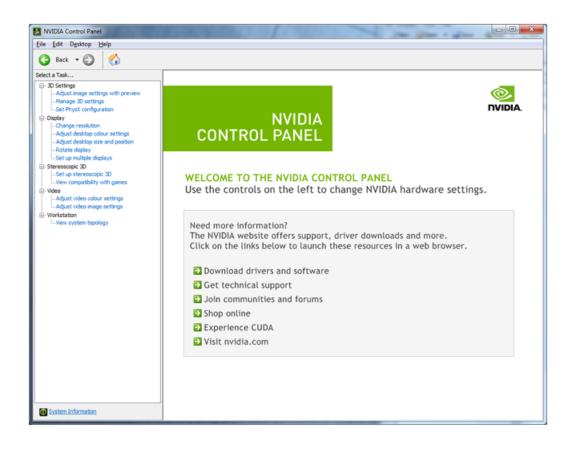


You will need to restart the software for it to take effect.

# Accessing the NVIDIA Control Panel

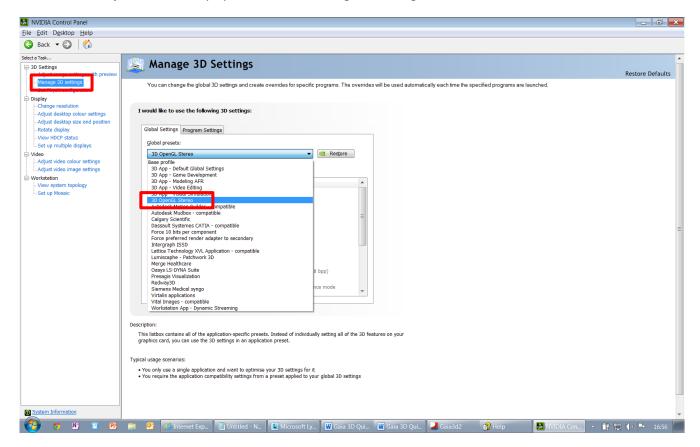
1. Right click on the desktop and choose NVIDIA Control Panel.





#### Configuring the PC for DLP 3D

- 1. Open the NVIDIA Control Panel (refer to Accessing the NVIDIA Control Panel section).
- 2. Click on Manage 3D.
- 3. Enable the **OpenGL Stereo** display method in the **Manage 3D Settings** tab.



4. Choose Generic active stereo from the Stereo – Display mode.

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elect a Task 30 Settings Adjust image settings with preview	Manage 3D Settings		Restore Default	
- Ashoot SU Petition Set Physix configuration	You can change the global 3D settings and cre specified programs are launched.	ate overrides for specific programs. The overrides will be used a	utomatically each time the	
- Adjust desktop colour settings - Adjust desktop colour settings - Adjust desktop size and position	I would like to use the following 3D settings:			
-Rotate display	Global Settings Program Settings			
Set up multiple displays	Global presets:			
-Set up stereoscopic 30	3D OpenGi, Stereo 👻 📑 Restore			
- View compatibility with games - Video - Adjust video colour settings - Adjust video colour	Settings:			
Adjust video image settings	Feature	Setting		
-Workstation	Maximum pre-rendered frames	3		
	Multi-display/mixed-GPU acceleration	Multiple display performance mode		
	OpenGL rendering GPU Deferred refresh cate (Aper GD245HQ)	Auto-select		
	Stereo - Display mode	Application-controlled Generic active stereo (with NVIDIA 3D Visio		
	Stereo - Enable	Con-board DIN connector		
	Stereo - Swap eyes	On-board DIN connector (with NVIDIA 3D Vision)		
	Threaded optimisation			
	Triple buffering	Generic active stereo (with NVIDIA 3D Vision)		
	Vertical sync	nView Clone mode (with NVIDIA 3D Vision using external DI	i signal)	
		Colour interleaved display	10000	
		Vertical interlaced stereo display Horizontal interlaced stereo display		
		30 DLP display		
	Description:	3D DLP display (with NVIDIA 3D Vision)		
	This setting allows you to choose the appropriate di hardware. Refer to the hardware documentation to	3D DLP display INV mode 3D DLP display INV mode (with NVIDIA 3D Vision) Tridelity SL/SV display		
		underst ordest nothest		
	Typical usage scenarios: • Using stereo displays or shutter glasses.			

5. Choose **Stereo – Enable** and click **On**.

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Adjust image settings with preview     Minings 50 settings     Set Physic configuration     Display     Change resolution     Adjust desktop colour settings	You can change the global 3D settings and specified programs are launched.	create overrides for specific programs. The ove	
-Adjust desktop size and position			
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-View compatibility with games -Video	Settings:		
<ul> <li>Adjust video colour settings</li> <li>Adjust video image settings</li> </ul>	Feature	Setting	
Workstation	Maximum pre-rendered frames	3	
-View system topology	Multi-display/mixed-GPU acceleration	Multiple display performance mode	
	OpenGL rendering GPU	Auto-select	
	Preferred refresh rate (Acer GD245HQ)	Application-controlled	
	Steres - Display mode	Generic active checes (with NVIDIA 3D Vici	
	Stereo - Enable Stereo - Swap eves	On On	
	Threaded optimisation	@Off	
	Triple buffering	Off	-
	Vertical sync	Use the 3D application setting	
	Description:		
	Enables stereo in OpenGL applications.		
	Typical usage scenarios:		

6. Click on **Change resolution** and ensure that you are in the native resolution that your monitor or projector supports. Choose **120Hz** from the **Refresh rate** dropdown box, to enable 3D on the display.

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# **DLP 3D Configuration**

#### Configuring the DLP Projector for 3D

Please refer to your projector manual on how to configure it for 3D. Generally you must enable 3D DLP in your projector's 3D menu as illustrated below.

Please note that most projectors, once the 3D is enabled, will then start up as 3D enabled each time. Some projectors however may have to be set to 3D DLP each time you turn the projector on as they default back to 2D when turned off.

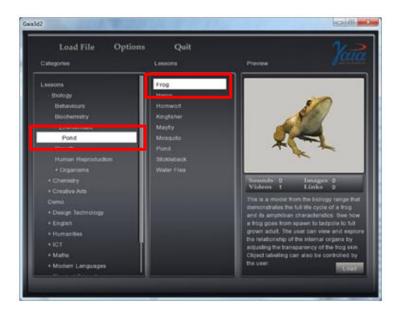
<u>Please Note:</u> 3D DLP mode will not appear on most projector menu's until the projector is receiving a 120Hz input from the PC.

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<u>Please Note:</u> Some projectors have an alternative 3D setting, called NVIDIA 3D. You must ensure that the projector is set to 3D DLP.

# Loading a Lesson

- 1. Load the Gaia 3D Viewer from the desktop or Start Menu.
- 2. Select a category.
- 3. Select a lesson
- 4. Click Load in the bottom right hand corner (or double click on the lesson).



### Interacting with a Lesson

- 1. Left Click and drag to rotate around an object.
- 2. Right Click and drag to pan across an object.
- 3. Scroll up and down using the **mouse wheel** to zoom in and out.
- 4. It is possible to zoom without using the mouse wheel. Put the cursor on the area you want to zoom in to. Press and hold the **Shift** key and then click the **left** mouse button.

### **Menu Buttons**



- Main Menu (Esc) Click button or press [ESC] to return to the main menu.
- **Multimedia** The full version of the Gaia 3D Viewer allows users to complement lessons with their own images and movies.
- Swap Eyes (F11) Should the 3D image be inverted, this button will correct the image when clicked or [F11] button pressed.
- Fill Window (F9) Maximize the screen view, press [F9] again to bring back the menu.
- **Reset All** If the lesson requires resetting for any reason, this button will restore the scene to its original state.

# **Lesson Control Panel**

Certain lessons contain a control panel in the bottom right of the screen.

The control panel contains any additional options for that lesson, such as showing labels or zooming to something.

Gaia3d2demo	Ear Stomacungs Simal lintestine Large Intestine	
Main Menu (Esc) Multimedia Swap Eyes (F11) Fill Window (F9) Reset All	Labels Hide Show Life Cycle Hide Show Transparent •	

### Interacting with an Environment

Gaia 3D contains environments that can be navigated around.

It is possible to either use the mouse or the keyboard to navigate.



#### Mouse

- Press **left** and **right** mouse click together to move forward.
- Press left mouse click and move mouse to observe



