

Professional 3D-Hardware

# **Nvidia Stereo Settings**

**3D PLURAVIEW** 

## **Nvidia Stereo Settings for 3DPluraView**

In this Document we will explain how to Reset and Enable Stereo on our 3D PluraView System with Nvidia Quadro Cards.

Make sure the Following is set before we Start.

- Workstation is Set and Running
- PluraView is Powered on and connected to your Workstation.
- In Case of Adapters please only use the Ones delivered with your PluraView System

#### Step 1:

Plug the PluraView system into the Display Ports of your Nvidia Quadro Card as Seen in the Picture.

- Bottom Labeled Cable -> Port 1
- Top Labeled Cable -> Port 2



#### Step 2:

Right Click on your Desktop and go to Display Setting.

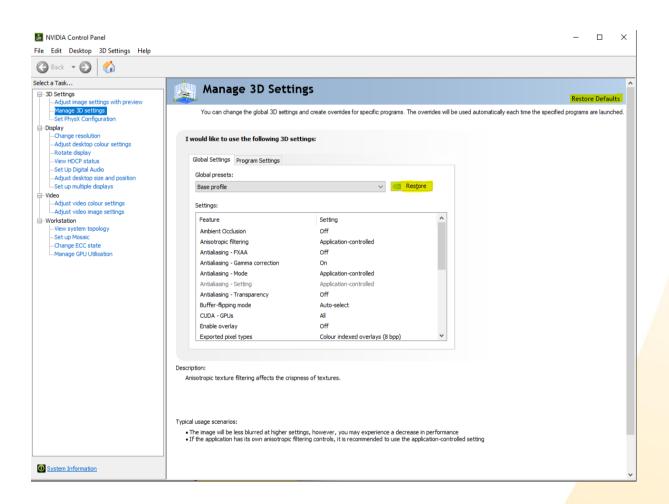
- Check if **both** Displays are shown
- Make sure the **Bottom** Display is the **Main** Display.
- See if both Displays are at the same Resolution:
  - 28" 4k PluraView -> 3840 x 2160 (Recommended 3D)
  - 27" WQHD PluraView -> 2560 x 1440 (Recommended 3D)
  - 24" FullHD PluraView -> 1920 x 1080 (Recommended 3D)
  - 22" Compact FullHD PluraView -> 1920 x 1080 (Recommended 3D)
- Check if 3D Display mode is set to -> ON

Settings	– 🗆 X
வ் Home	Display
Find a setting $ ho$	Get a brighter, more vibrant picture in HDR and WCG videos, games, and apps on the display selected above.
System	Windows HD Colour settings
🖵 Display	Scale and layout
句ŵ Sound	Change the size of text, apps and other items
49 Journa	100% (Recommended) V
Notifications & actions	Advanced scaling settings
J Focus assist	Display resolution
( <sup>1</sup> ) Power & sleep	1920 × 1080 (Recommended, 3D) V
	Display orientation
📼 Storage	Landscape V
다 Tablet mode	Multiple displays
曰: Multi-tasking	Multiple displays
Projecting to this PC	Extend these displays
X Shared experiences	Make this my main display
🖺 Clipboard	Connect to a wireless display
✓ Remote Desktop	3D display mode
	On On
1) About	Advanced display settings
	Graphics settings

#### Step 3:

Right Click on your Desktop and go to Nvidia Control center.

- Open Manage 3D settings.
- Hit Restore Defaults and click on Yes and Apply.
- Hit **Restore** on the **Base Profile** and click on **Yes** and **Apply**.
- After this **Restart** your Workstation.



#### Step 4:

Open the Nvidia Control center again and navigate to **Change resolution** check if Both Displays have the same Settings as Following:

- Resolution (As mentioned in Step 2)
- Refresh rate
  - 4k, WQHD, FullHD -> **60Hz**
  - 24" FullHD -> 144Hz
- Nvidia Colour settings
  - Output colour format: -> **RGB**
  - Output dynamic range: -> Full
  - Output colour depth: -> **8bpc**

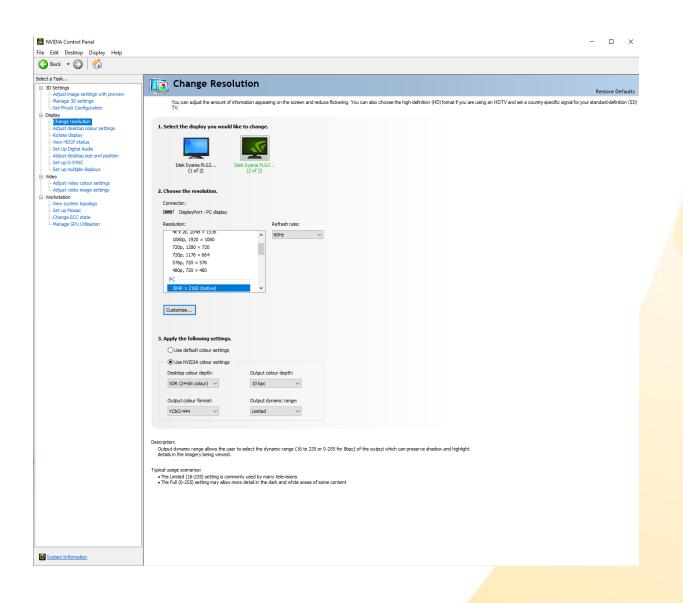
Select a Task	Change Decolution				
	The Change Resolution				
Adjust image settings with preview					
Manage 3D settings	You can adjust the amount of information appearing on the screen and reduce flickering. You can also choose the high-definition (HD) format if you are using an HD				
Set PhysX Configuration	TV.				
. Display					
Change resolution					
Adjust desktop colour settings	1. Select the display you would like to change.				
Rotate display					
View HDCP status					
Set Up Digital Audio					
Adjust desktop size and position					
Set up G-SYNC	Idek IIyama PL2730Q Idek IIyama PL2730Q				
Set up multiple displays	$(10 f_2)$ (2 of 2)				
- Video					
Adjust video colour settings					
Adjust video image settings	2. Choose the resolution.				
View system topology	Connector:				
Set up Mosaic	DisplayPort - PC display				
Change ECC state					
Manage GPU Utilisation	Resolution: Refresh rate:				
	01110,110,30 A 60Hz V				
	1080p, 1920 × 1080				
	720p, 1280 × 720				
	720p, 1175 × 664				
	576p, 720 × 576				
	480p, 720 × 480				
	PC				
	2560 × 1440 (native) 🗸				
	Customise				
	2 Analy the following solutions				
	3. Apply the following settings.				
	O Use default colour settings				
	Use NVIDIA colour settings				
	Desktop colour depth: Output colour depth:				
	SDR (24-bit colour) V 8 bpc V				
	Output colour format: Output dynamic range:				
	Couper colour format. Output dynamic range:				
	RGB V Full V				

Our 28" 4k PluraView Model can drive with **10Bit** Colour depth.

Therefore, you need to set different Colour settings.

- Output colour format: -> YCbCr444
- Output dynamic range: -> Limited
- Output colour depth: -> **10bpc**

**Side Note:** If Top and Bottom display are showing different colours please follow the instruction for **10Bit** above.



#### Step 5:

Inside the Nvidia Control Center go to Manage 3D Settings.

- Stereo Display mode -> nView Clone mode
- Stereo Enable -> On
- Stereo Swap eyes -> Off

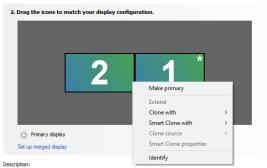
Stereo Enable might be unable to switch, depending on your Windows Version. Make sure you followed Step 2 and Enabled 3D Mode under **Windows**!

3D display mode			
On			
NVIDIA Control Panel File Edit Desktop 3D Settings Help  Back  Select a Task  30 Settings Adjust image settings with preview Manage 3D settings	Manage 3D Settin	<b>ISS</b> and create oventides for specific programs. The oventides will be used auto	- C ×
<ul> <li>Set PhysX Configuration</li> <li>Display</li> <li>-Change resolution</li> <li>-Adjust desktop colour settings</li> <li>-Rotate display</li> <li>-View HDCP status</li> <li>-Set Up Digital Audio</li> <li>-Adjust desktop size and position</li> <li>-Set up multiple displays</li> <li>Video</li> <li>-Adjust video colour settings</li> <li>-Adjust video image settings</li> <li>Workstation</li> <li>-Set up Mosaic</li> <li>-Change ECC state</li> <li>-Manage GPU Utilisation</li> </ul>	I would like to use the following 3D set Global Settings Program Settings Global presets: Base profile Settings: Feature Multi-Frame Sampled AA (WFAA) OpenGL rendering GPU Power management mode Shader Cache Stereo - Display mode Stereo - Display mode Stereo - Enable Stereo - Display mode Stereo - Enable Stereo - Enable Stereo - Enable Stereo - Enable Stereo - Enable Stereo - Display mode Stereo - Swap eyes Threaded optimisation Triple buffering Vertical sync		
	Allows you to enable or disable triple buffering Typical usage scenarios: • Turning on this setting improves performanc		v Cancel
System Information			Apply Cancel

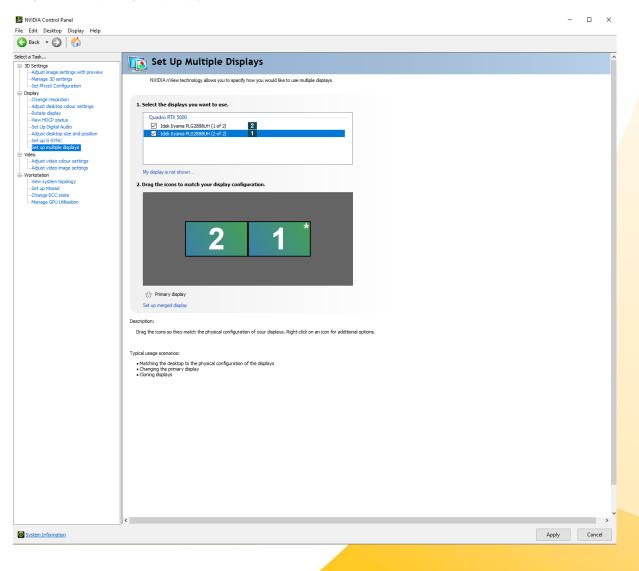
#### Step 6:

Navigate to Set up multiple displays.

- Make sure the **Primary Display** is the Bottom Display (Marked with a Star)
  - You can change and Identify the **Primary Display** with a **Right** Click on the Display.
- Right Click on your Display with a Star
- Chose Clone With -> 2
- Hit Apply
- Wait until Nvidia control center asks to Confirm your Setting



Drag the icons so they match the physical configuration of your displays. Right-click on an icon for additional options.



#### Step 7:

After this your setup is done. To Check if everything is working, we recommend using a Tool called REDBLUE.exe

This will Display Red and Blue Box on each Display, witch if everything is correctly setup, will overlap on the Mirror.

- Red Box shows on your Right eye on the **Top** Display.
- Blue Box shows on your Left eye on the **Bottom** Display.

This Tool and all can be Found on our Website as well as current Drivers.

• <u>REDBLUE.exe</u>

### Workstations (Treiber)

- DULSARON (AMD)
- CENTURON (INTEL)

## **Professional Graphics Card**

- AMD (Radeon PRO & FirePRO)
- NVIDIA (TESLA / QUADRO / NVS)

## Workstation (Tools / Benchmarks / Diagnostik)

- Benchmarks
- CPU-BurnIn
- CPU-Diagnostic
- 🖻 Memory RAM

HW Temprature Tools
HW Reporting

Feel free to Contact <a href="mailto:support@schneider-digital.com">support@schneider-digital.com</a> with all Questions

or Call in directly into our Office: +498025993010