

Enabling G-SYNC

For better performance and to keep up with the high refresh rate of Holoscan applications, we recommend the use of a <u>G-SYNC display</u>.

Тір

Holoscan has been tested with these two G-SYNC displays:

- Asus ROG Swift PG279QM
- Asus ROG Swift 360 Hz PG259QNR

Follow these steps to ensure G-SYNC is enabled on your display:

- 1. Open the "NVIDIA Settings" Graphical application (nvidia-settings in Terminal).
- 2. Click on X Server Display Configuration then the Advanced button. This will show the Allow G-SYNC on monitor not validated as G-SYNC compatible option. Enable the option and click Apply:

	NVIDIA	Settings		- 🗆 😣
System Information X Server Display Configuration X Screen 0				
X Server XVideo Settings OpenGL Settings Graphics Information Antialiasing Settings VDPAU Information GPU 0 - (Quadro RTX 6000) Thermal Settings PowerMizer ECC Settings DP-2 - (AUS ROG PG279QM) Application Profiles	Layout AUS ROG PG279QM 2560x1440			
nvidia-settings Configuration	Selection:	AUS ROG PG279Q	PM (DP-2 on GPU	J-0) 🔻
	Configuration:	X screen 0		•
	Resolution:	2560x1440	▼ 24	40 Hz 👻
	Mode Name:	2560x1440_240		
	Orientation:	No Rotation 👻	No Reflection	n -
	ViewPortIn:	2560x1440		
	ViewPortOut:	2560x1440+0+0		
	Panning:	2560x1440		
	 Force Composition Pipeline Force Full Composition Pipeline Allow G-SYNC on monitor not validated as G-SYNC Compatible 			
		Apply Dete	ct Displays	Basic Reset
			Save to	X Configuration File
			He	lp Quit

Fig. 1 Enable G-SYNC for the current display

3. To show the refresh rate and G-SYNC label on the display window, click on OpenGL Settings for the selected display. Now click

Allow G-SYNC/G-SYNC Compatible and

Enable G-SYNC/G-SYNC Compatible Visual Indicator options and click Quit. This step is shown in below image. The Gsync indicator will be at the top right screen once the application is running.

	NVIDIA Settings – 🗆 😣
System Information X Server Display Configuration X Screen 0 X Server XVideo Settings	OpenGL OpenDia Performance Performance
OpenGL Settings Graphics Information Antialiasing Settings VDPAU Information ✓ GPU 0 - (Quadro RTX 6000) Thermal Settings PowerMizer ECC Settings DP-2 - (AUS ROG PG279QM) DP-7 - (AUS ROG PG259QN) Application Profiles nvidia-settings Configuration	 Sync to VBlank Allow Flipping Allow G-SYNC/G-SYNC Compatible Enable G-SYNC/G-SYNC Compatible Visual Indicator Image Settings: High Quality Miscellaneous Enable gamma correction for antialiased lines Gamma correction 16 Use Conformant Texture Clamping Enable Graphics API Visual Indicator
	Help Quit

Fig. 2 Enable Visual Indicator for the current display

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