

# QUICK GUIDE

SEE THE DIFFERENCE WITH NVIDIA GEFORCE DEDICATED GRAPHICS IN YOUR PC

Advanced Gaming	Battery Optimization	Brilliant Multimedia
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Play with faster performance, higher resolutions, and the latest technologies.



Get long battery life for your GeForce-powered laptop, whether you're playing a game, writing an e-mail, or watching a movie.



Edit HD videos and high-resolution photos quickly and easily. Even accelerate popular Adobe® apps.

Dedicated Graphics Processing Unit (GPU)		Gaming										Battery Optimization		GeForce Experience™			Multimedia	
		Gaming Experience	DirectX	VR Ready	NVIDIA VRWorks™	NVIDIA G-SYNC™ <sup>1</sup>	Overclocking	NVIDIA Ansel™	NVIDIA GameWorks™	NVIDIA GPU Boost™	NVIDIA SLI® Ready	NVIDIA Optimus™ <sup>1</sup>	NVIDIA BatteryBoost™ <sup>2</sup>	Game Optimization	NVIDIA ShadowPlay™	NVIDIA GameStream™	Adobe Acceleration <sup>3</sup>	Photo and Video Editing
GEFORCE GTX	GeForce GTX 1080	1080p+ Ultra Settings @ 120 fps	12	✓	✓	✓	✓	✓	✓	3.0	✓	✓	✓	✓	✓	✓	✓	✓
	GeForce GTX 1070	1080p Ultra Settings @ 120 fps	12	✓	✓	✓	✓	✓	✓	3.0	✓	✓	✓	✓	✓	✓	✓	✓
	GeForce GTX 1060	1080p High Settings @ 120 fps	12	✓	✓	✓	✓	✓	✓	3.0	✓	✓	✓	✓	✓	✓	✓	✓
	GeForce GTX 1050 Ti	1080p High Settings @ 60 fps	12			✓	✓	✓	✓	3.0	✓	✓	✓	✓	✓	✓	✓	✓
	GeForce GTX 1050		12			✓	✓	✓	✓	3.0	✓	✓	✓	✓	✓	✓	✓	✓
	GeForce GTX 950M		12					✓	✓	2.0	✓	✓	✓	✓	✓	✓	✓	✓
GEFORCE	GeForce 940M/940MX	900p Medium Settings @ 60 fps	12						✓	2.0	✓		✓			✓	✓	
	GeForce 930M/930MX		12						✓	2.0	✓		✓			✓	✓	
	GeForce 920M/920MX	720p Medium Settings @ 60 fps	12						✓	2.0	✓		✓			✓	✓	

1. May not be available on all OEM configurations. See manufacturer for more information.  
 2. BatteryBoost support varies depending on OEM. BatteryBoost requires installation of GeForce Experience.  
 3. GeForce accelerates the following Adobe Apps (Lightroom, Photoshop, Illustrator).  
 4. Not all models have internal G-SYNC panels. See manufacturer for more information.



Dedicated Graphics Processing Unit (GPU)		Video and Photo Rating	Gaming Rating	Performance
<b>GEFORCE GTX</b>	GeForce GTX 1080	●●●●●●●●●●	●●●●●●●●●●	6.7x GTX Baseline
	GeForce GTX 1070	●●●●●●●●●●	●●●●●●●●●○	4.9x GTX Baseline
	GeForce GTX 1060	●●●●●●●●●○	●●●●●●●●●○	3.7x GTX Baseline
	GeForce GTX 1050 Ti	●●●●●●●●○○	●●●●●●●○○○	2.2x GTX Baseline
	GeForce GTX 1050	●●●●●●●●○○	●●●●●●○○○○	1.8x GTX Baseline
	GeForce GTX 950M	●●●●●●●○○○	●●●●●○○○○○	GTX Baseline
<b>GEFORCE</b>	GeForce 940/M940MX	●●●●●○○○○○	●●●○○○○○○○	Up to 4x Intel IGP <sup>1</sup>
	GeForce 930/930MX	●●●●●○○○○○	●●○○○○○○○○○	Up to 3.75x Intel IGP <sup>1</sup>
	GeForce 920M/920MX	●●●●●○○○○○	●●○○○○○○○○○	Up to 3.25x Intel IGP <sup>1</sup>

1. Compared to Intel HD 4400.

FEATURES AT A GLANCE

VR Ready	NVIDIA® Optimus™ Technology	NVIDIA BatteryBoost™	NVIDIA GeForce Experience™
Get the fast performance and low latency for an amazing virtual reality experience.	Automatically optimize battery life while maintaining outstanding graphics performance, whether you're watching a movie, surfing the web, or playing a 3D game.	Lose the charger and game on the go. BatteryBoost™ delivers the performance and extended battery life you need to outgun your opponents.	Quickly optimize game settings with a single click. Get the best gaming experience from your GeForce GPU.
NVIDIA Ansel™	NVIDIA G-SYNC™	NVIDIA ShadowPlay™	NVIDIA GameStream™
Discover a revolutionary new way to capture in-game shots. Compose your screenshots from any position, adjust them with post-process filters, capture HDR images in high-fidelity formats, and share them in 360 degrees using your mobile phone, PC, or VR headset.	G-SYNC's revolutionary smoothness is achieved by synchronizing display refresh rates to the GPU in your GeForce GTX-powered laptop. It eliminates screen tearing and minimizes display stutter and input lag.	Capture and share all of your greatest gaming moments in up to 4K resolution.	Stream GeForce GTX PC gaming to portable devices like NVIDIA SHIELD™ with super-smooth, low-latency performance.

- > **NVIDIA VRWorks**  
Discover next-generation VR performance, the lowest latency, and plug-and-play compatibility with leading headsets. It's all driven by NVIDIA VRWorks technologies. VR audio, physics, and haptics that let you hear and feel every moment.
- > **NVIDIA GPU Boost 3.0**  
Dynamically maximize clock speeds based on workload and allows gamers to push performance to new levels.

> **DirectX 12 and 11 Support**  
Get support for the latest Microsoft DirectX API, as well as previous versions.
- > **NVIDIA SLI® Technology**  
Run two GeForce GPUs in parallel for up to 2X performance scaling on today's hottest games.

> **NVIDIA CUDA® Technology**  
Unlock the power of the GPU's processor cores to accelerate the most demanding system tasks beyond gaming—including video transcoding and photo editing.



For more information on NVIDIA and NVIDIA GeForce products, visit [www.nvidia.com](http://www.nvidia.com)

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