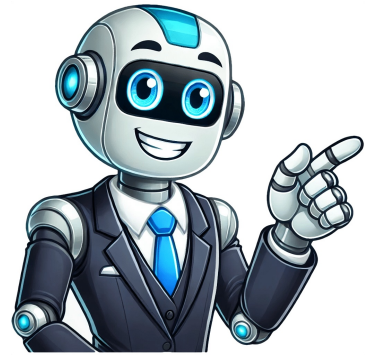Continue

NVIDIA app is the essential companion for users with NVIDIA GPUs in their PCs and laptops. Whether you're a gaming enthusiast or a content creator, NVIDIA app simplifies the process of keeping your PC updated with the latest GeForce Game Ready and NVIDIA Studio drivers, and enables quick discovery and installation of NVIDIA applications like GeForce NOW and NVIDIA Broadcast. Featuring a unified GPU control center, NVIDIA app allows fine-tuning of game, program, and driver settings from a single place, while introducing a redesigned in-game overlay for convenient access to powerful gameplay recording tools, performance monitoring overlays, and game enhancing filters, including innovative new AI-powered filters for RTX users. The NVIDIA app incorporates many of the top features from GeForce Experience and RTX Experience, includes an optional login to redeem bundles and rewards, and introduces new RTX capabilities to elevate your gaming and creative experiences. Following the release of several betas this year, we're officially releasing NVIDIA app today. Download the new NVIDIA app here. Loading NVIDIA app brings you straight to the Home tab featuring our most recent news updates and announcements. Beneath, the Library section shows your most recently opened games and apps. Highlighting one with your mouse cursor enables you to open it, or access game settings and applicable driver settings. Automatically optimize the game's settings with our recommendations that are available for over 1,200 titles, drag the slider to pick different settings presets that adjust image quality and performance, or scroll down to enable driver-level options. Back on the Home screen, you'll also find the Discover section, highlighting other available NVIDIA applications. With a few clicks these can be installed -and uninstalled- from within NVIDIA app. At the time of writing, the available apps are: GeForce NOW: Stream your PC games from powerful GeForce RTX cloud servers via virtually any device, anywhere you have internet access. Ultimate members get exclusive access to a GeForce RTX 4080 gaming rig in the cloud for all the same benefits and NVIDIA technology as 40-series GPU owners, including DLSS 3 and NVIDIA Reflex NVIDIA Broadcast: Turn any room into a professional studio. Remove background noise from your mic, filter incoming noise from other users, enhance your webcam, and add virtual backgrounds, all powered by AI and the Tensor Cores found exclusively on GeForce RTX and NVIDIA RTX GPUs NVIDIA ICAT: Create screenshot and video image quality comparisons with ease, and export them for sharing on websites and other services NVIDIA FrameView: Measure and chart performance, power usage, and many other statistics in extensive depth and detail with powerful tools NVIDIA ChatRTX: Create a locally-hosted, personalized GPT Large Language Model (LLM) chatbot powered exclusively by your GeForce RTX or NVIDIA RTX PC or laptop, to search text and images, and summarize information. And because it all runs locally on your Windows RTX PC or workstation, you'll get fast and secure results NVIDIA RTX Remix: Enhance and remaster classic games using full ray tracing and NVIDIA DLSS 3.5 with Ray Reconstruction Download and install the apps to further enrich and enhance your experiences, and to enable new functionality. By pressing Alt+Z, or the button on the top right of the NVIDIA app window, you'll open the redesigned NVIDIA Overlay. From the new panel that appears you can access our full suite of video, screenshot, filter, and overlay options. Alternatively, use the listed hotkeys to immediately activate a feature without invoking the NVIDIA Overlay. Record captures your game, app or desktop when you hit the button or Alt+F9 hotkey, only stopping once pressed again. This is great for recording competitive matches in online games, YouTube walkthroughs and tutorials, and your in-progress work, which can then be sped up in post to create a timelapse showing the creation of a new piece of art, for example. In NVIDIA app, these and other recordings can be captured at up to 4K 120 FPS, or 8K 60 FPS, using the advanced AV1 codec. Utilizing the eighth-generation NVIDIA Encoders (NVENC) on GeForce RTX 40 Series graphics cards and laptop GPUs, AV1 improves encoding efficiency by 40%, producing higher quality videos without requiring more disk space. Using AV1, there are fewer blocky artifacts, color banding is reduced, and significantly more detail is preserved in fast motion scenes, better demonstrating the fidelity of Horizon Forbidden West™ Complete Edition with maxed out PC settings and DLSS 3 Frame Generation. For gamers recording each multiplayer match and single-player walkthroughs, disk space savings are substantial, and if you save footage to the same drive your game is loaded from, the difference can mean any Input/Output-related stutters and accelerate loading times. To enable AV1, click the Settings cog at the top of the Alt+Z NVIDIA Overlay panel, then select "Video capture". Instant Replay creates a rolling recording as you work or play. If you're not interested in capturing a full multiplayer match, but do want to record incredible kills and hilarious moments, Instant Replay is the option for you - simply press Alt+Shift+F10 whenever something memorable happens and a clip will be saved. Configure the length of these via the Settings cog. Below, Microphone enables you to toggle the recording of your voice in videos, or to set a push to talk key. Screenshot captures SDR and HDR screenshots from any game you're playing when you press Alt+F1. Photo Mode enables you to access powerful screenshot tools in compatible games when you press Alt+F2. Change camera angles, adjust the look of the game, and much more. Highlights automatically saves videos of key moments in compatible games. The Settings cog at the top of the NVIDIA Overlay panel offers numerous options to customize these features. Change hotkeys, adjust the notifications shown, change sound sources for videos and enable multi-track audio to make your mic input a separate recording, change video recording quality settings, limit the amount of disk space used by files, and adjust where files are saved. The Gallery appears on the Alt+Z NVIDIA Overlay following your first screenshot or video captures. After clicking it, your captures are sorted per game, and additional options enable you to view only screens or videos. Click to enlarge or watch, and to access the files on your disk drive for sharing with friends or for uploading to social media. Game filters empower you to personalize the visual aesthetics of your favorite games through real-time post-processing filters. This feature boasts compatibility with a vast library of more than 1,200 games, and now NVIDIA app offers AI-powered filters, accelerated by Tensor Cores on GeForce RTX GPUs. The RTX HDR filter seamlessly brings the vibrant world of High Dynamic Range (HDR) to games that were not originally equipped with HDR support. Only 12 of the top 50 most-played GeForce games offer HDR support. But with the RTX HDR filter, you can take full advantage of your HDR-compatible monitor in thousands of SDR games running on DX12, DX11, DX9, and Vulkan, further enhancing your experience. Check out the NVIDIA Consumer Support Knowledge Base for system and software requirements. Unlock HDR gaming with RTX HDR (image simulated for SDR displays; click here to load a fullscreen 4K comparison). Download the HDR source image for comparison on HDR displays here, and the SDR image here RTX Dynamic Vibrance is an AI-powered Freestyle filter that improves upon the beloved Digital Vibrance feature in the NVIDIA Control Panel. RTX Dynamic Vibrance enhances visual clarity on a per app basis, providing players with a flexible and convenient way to tune their visual settings for each game. Colors pop more on screen, with perfect balance to minimize color crushing, preserving image quality and immersion. Enhanced visual clarity with RTX Dynamic Vibrance (click here to load a fullscreen 4K comparison) Finally, the Statistics screen gives users full control of the overlay's performance and system information, including the software and system stats shown, their position, color, size, and more. When it comes to your favorite games or applications, GeForce Game Ready Drivers and NVIDIA Studio Drivers ensure the ultimate experience for gamers and creators. In our new Drivers page, we've introduced easy-to-scan bullet points showing what's new and improved, and which games are supported. Click the "Download" button to effortlessly download and install our newest driver, or alternatively head to Settings → Drivers and enable the option to automatically download a new driver when released. Then you simply need to click "Install" and you can update your PC or laptop with just a few clicks in a flash. All driver-related articles are accessible on a single carousel, so you can read about game announcements or technologies associated with the driver from within NVIDIA app. And if you need to switch to Studio Ready Drivers or from Game Ready Drivers, or vice versa, you can simply click the dropdown on the top right corner of the screen. On NVIDIA RTX and Quadro systems, users can download the NVIDIA Recommended Production Branch WHQL Driver, as well as the latest Leading Edge and Conservative drivers Beneath details of our newest drivers, you can also rollback to a driver previously installed via NVIDIA app. Simply click the three dots, then "Reinstall". GeForce Experience's Optimal Playable Settings (OPS) have helped millions of gamers instantly optimize game settings for a great balance between image quality and performance. Before the creation of OPS over a decade ago, the complexity of configuring a game with dozens of settings and detail levels prevented many from playing at smooth frame rates, or required them to spend considerable time tweaking. By simply clicking "Optimize", our users could auto-configure all of a game's settings, and enable NVIDIA technologies, including DLSS and Reflex. Additionally, NVIDIA users can further configure games and apps via "Manage 3D Settings" in the NVIDIA Control Panel, enabling and overriding driver-level features on a global or per-game basis. NVIDIA app brings all of these options into one easily accessible, responsive "Graphics" tab. At the top, you can configure your resolution and screen options, and press the "Optimize" button to instantly apply our recommended settings for your specific system configuration. Alternatively, move the slider below between Performance and Quality to adjust the settings that'll be applied before pressing "Optimize". Changes can be viewed in real-time in the list of In-Game Settings below the Optimize panel. Scrolling down, you'll find the Driver Settings panel. The options presented are the settings still applicable to modern games from NVIDIA Control Panel's 3D Settings section. Settings that are no longer relevant for modern applications are still accessible via NVIDIA Profile Inspector, for users wanting to enhance and customize legacy games and apps. Highlighting a setting adds an information "i" icon - clicking this displays a description of the feature. Clicking a setting exposes its various configuration options and further details, enabling you to quickly and easily configure everything to your liking. These options can be adjusted on a per-game and app basis, or for every game and app by clicking over to the "Global Settings" tab at the top of the screen. Users can also sort and filter the Graphics tab - click the icon highlighted below to sort alphabetically and show only specific types of programs. Click the three dots to the right to manually add programs, to point NVIDIA app at new directories to scan for programs, and to restore settings to default. On the far right of the screen, just above the Optimize button, this different set of three dots allow you to hide a program from the list, and to go to the program's folder on your computer. To unhide a program, click on the Sort and Filter button, select "Hidden" and click "Done". Hidden programs will be shown and you can now use the rightmost three dots to unhide. The system tab is your one-stop destination for display, video and GPU options, and features an enhanced performance tuner to safely increase frame rates. Displays hosts G-SYNC display options, resolution and refresh rate controls, and display orientation settings. Future NVIDIA app updates will introduce the remaining Display settings from the NVIDIA Control Panel, such as Surround options, custom resolutions, and multi-monitor setup. For the time being, please use the NVIDIA Control Panel to configure them. Video features powerful new AI-powered tools to enhance streamed and locally-played videos. Using the power of AI, RTX Video HDR instantly converts any Standard Dynamic Range (SDR) video into a vibrant High Dynamic Range (HDR) video when played in Google Chrome, Microsoft Edge, Mozilla Firefox, or the VLC media player RTX branch. Use the full capabilities of your display's HDR capabilities to display more vivid, dynamic colors to further enhance your experience on GeForce RTX PCs and laptops. RTX Video Super Resolution (VSR) uses AI to enhance streaming video on all GeForce RTX GPUs by removing compression artifacts, and sharpening edges when upscaling. On the System > Video tab in the NVIDIA app, you can easily enable RTX Video HDR and RTX Video Super Resolution (VSR) video for streams. In a future NVIDIA app update, we'll also introduce status indicators, making it even easier to know if content is being enhanced by our AI-powered RTX Video features. For RTX Video system requirements and additional setup information, please visit our knowledge base page. The Performance tab enables users to maximize the potential of their GPUs through one-click automatic GPU tuning. NVIDIA app will test your GPU's capabilities over the course of 10-20 minutes, during which time we recommend letting your system idle, otherwise results may be affected. Once complete, it will automatically apply a safe overclock. Periodically, the automatic GPU tuner will perform additional checkup scans to ensure you continue to have the best tuning profile. Power users may also adjust voltage, power, temperature and fan speed targets, which will change the parameters of our advanced tuning algorithms. This is useful, for instance, if you wish to maximize performance without going above a certain temperature threshold, or want fans to spin at a maximum of 70%. My Rig shows key hardware info at a glance, and by clicking "View Rig Details" you can access further detail that can be copied to the clipboard, making sharing system information a cinch. NVIDIA app users get access to rewards, such as in-game content, exclusive GeForce NOW premium membership offers, and more. Simply start the NVIDIA app and visit the Redeem tab to check out the latest rewards, like our new THRONE AND LIBERTY GeForce Bundle including 200 Ornate Coins and a PC-exclusive Mischievous Youngster Gneiss Amitoi. Full details about our THRONE AND LIBERTY GeForce Bundle Reward can be found here. To claim rewards, users must login on GeForce PCs and laptops with an NVIDIA account, which can be created using common login services such as Google and Discord, or an email address. All other aspects of NVIDIA app can be used without a login or account. Our Settings screen gives you instant access to key options, enables you to change the language of NVIDIA app, and allows you to toggle notifications for the release of new driver updates and Rewards. On the About tab you can opt in to early access betas to be the first to try new features, and can access our privacy policies, license agreements, and terms of use. You also have the option to tick "Configuration, performance, and usage data", as well as "Error and crash data". This information helps us to reproduce, diagnose, and fix issues more quickly, and improves future updates. Your feedback matters, and we appreciate your continued support. In future updates, we'll continue to add remaining NVIDIA Control Panel options like Surround and Multiple Display Mode settings, along with new features and further enhancements. Please share your thoughts about NVIDIA app via the in-app feedback feature at the top right of the window and let us know which other features you'd like to see incorporated. To send NVIDIA feedback about any feature of the new app, please click the exclamation point to the right of the NVIDIA Overlay button With the official launch of NVIDIA app today, migration of GeForce Experience and NVIDIA RTX Experience features is complete, and the new app will soon be optionally bundled as part of our Game Ready Driver and Studio Ready Drivers. We encourage you to make the upgrade to the NVIDIA app. Stay tuned for updates on future NVIDIA app developments on GeForce.com, and if you haven't already installed NVIDIA app, download it now from our website! By Andrew Burnes on Wed, Apr 08 2015 GeForce Garage , Guides Out of the box the majority of monitors are far from perfect when it comes to color, brightness, and motion blur calibration. With a few simple tweaks you can fix all that, however, and finally see games as developers intended. One thing to acknowledge though: calibration is a subjective process because our eyes and brains can perceive color incorrectly (see: white-gold, blue-black dress), and because of color blindness and other issues. So even when a professional monitor calibrator is telling you that settings are correct, you may feel differently. With the above in mind, try giving recommended and calibrated settings a few days to settle in. If you still feel uncomfortable or unhappy with the results, modify them in small increments until you're content. And remember, your results will be limited by the quality of your monitor and the panel technology it's using: IPS typically has superior viewing angles and colors, and TN is more responsive and less prone to motion blur. Back-Up Old Settings You've potentially used incorrect settings for several years, and to you they look AOK. The changes we're making could be drastic, and you may dislike them greatly. As such, go through your monitor's menus, Windows' options, and the NVIDIA Control Panel, jotting down old settings and any changes you've made in the past. That way, you can revert the changes we're about to make and return to the incorrect settings you've grown to love. Prep Your System & Room Before you start your calibration efforts, install the latest NVIDIA display drivers from GeForce.com , set your screen resolution to its native resolution, for example 1920x1080 on a 1920x1080 monitor, and let your monitor warm up for 20-30 minutes (some may take longer, others less so) to ensure it's operating to its full capability. If you're unfamiliar with changing resolutions, right click the desktop, select "NVIDIA Control Panel", navigate to the "Change Resolution" tab and select the resolution in the list that says "(native)". In your room, eliminate any glare from windows or artificial lights, but keep the lighting bright enough that you can see the keyboard and your surroundings. If your screen is typically engulfed in glare, look for ways to reduce that on a permanent basis to improve results and reduce eye-strain, and if that's impossible book the monitor's brightness post-calibration to compensate. Correct Your Viewing Position All monitors have a listed Viewing Angle in which the picture is supposedly clear and usable. In reality though the quality of some monitors can drop drastically the second you move off-center. Therefore, to ensure you have the best possible picture, and can calibrate your monitor correctly, switch your position permanently to one in line with your monitor, with the entirety of the screen in your field of view. To not do so will hobble your experience and prevent effective calibration, making it the most important change in this guide. How to make the most important change in this guide. With a professional monitor calibrator is telling you that settings are correct, you may feel differently. With the above in mind, try giving recommended and calibrated settings a few days to settle in. Lag , and Prad produce some of the most detailed monitor reviews on the Internet, and in those reviews their knowledgeable editors often provide recommended monitor settings and ICC color management profiles . Generated from professional-grade calibrators these are fantastic starting points for your own personalized settings, and in many cases are good enough to use without any further tweaking: Step 1) Locate settings and profiles. Check TFT Central's Database first, and if no luck Display Lag and Prad 's reviews second. If you're still unable to find your monitor look on the manufacturer's support page for ICC profiles, and try a generic Google search using calibration. If that's too broad, add quotation marks to force a search for that specific phrase. And if that fails, skip this section and be prepared to spend some quality time in calibration apps. Step 2) Install the ICC profile. Copy the downloaded file to C:\Windows\system32\spool\drivers\color, then run colorcpl.exe to open the Color Management window (alternatively, navigate to Color Management in the Control Panel). Step 3) Tick the "Use my settings for this device" check box. Step 4) Click "Add..." and locate the relevant profile. If you don't see it select "Browse" and navigate to C:\Windows\system32\spool\drivers\color. Step 5) Your new profile will appear in the window under "Profiles associated with this device". If there's more than one, click the new profile, then click "Set as Default Profile". Step 6) Click the "Advanced" tab, then click "Change system defaults...". Step 7) On this carbon-copy of the Color Management window, click the "Advanced" tab and tick "Use Windows display calibration". Step 8) Repeat the process on your second, third, and forth monitors if you're a multi-monitor user. Step 9) Close the Color Management window(s). Step 10) Finally, modify each monitor's settings using their On-Screen Displays (OSD). Some can be unintuitive, so it is recommended to keep the manual on standby. If the panel's particularly advanced you may be able to create multiple profiles or presets, and tweak power user settings that give you greater control over the picture. If you're unsure what a setting does, consult the manual or ask online. OSD image courtesy of TFT Central Tweak With Free Tools & Tests The quality and properties of monitors can vary from one unit to the next in production runs, so you may find the recommended settings above are 'off', or perhaps you simply wish to tweak to your personal liking. The easiest way to do this is to utilize a variety of online tests, and the "Calibrate display" tool in the "Advanced" tab of the Color Management application we were using above. Online, the go-to location for any monitor tweaking is Lagom's suite of test images . There, you can calibrate Contrast, Sharpness, black levels, and many other aspects of your monitor's display. But what you won't find is a good motion test, which is particularly important for gamers using modern monitors equipped with motion blur, input delay, input lag, zero lag, and other similarly named modules that reduce blurring on fast-moving objects. Some of these modules can merely be turned on or off, but others, like BenQ's AMA, have a variety of modes. Using Blur Busters' Motion Tests and Prad's PixPerAn you can see the impact of these modules and determine which result you like best. Blur Busters test image courtesy of TFT Central At the conclusion of Windows' display calibration you can also access ClearType Text Tuner to adjust the clarity of text in Windows, which is particularly important for any heavy-duty readers or typists. Alternatively, you can skip the "Calibrate display" tests by running cttune.exe directly, or by searching for ClearType in Windows 8.1's Start Menu. Go Professional The only way to get 100% technically-perfect results for your monitor is to buy, rent, or borrow a professional color calibration tool, such as Datacolor's Spyder4 , Pantone's ColorMunki , or x-Rite's i1Display Pro . They're not cheap (prices start at $99), but if you've already invested in a G-SYNC Surround setup or 4K monitor the extra cost will ensure you get the absolute best results. Just remember, the technology may say that the calibration is perfect, but your eyes may not believe it, or you may simply prefer a different look. Calibration devices rest on your screen while working their magic, and take into account external factors such as ambient lighting, too. NVIDIA Control Panel Color Adjustment In the NVIDIA Control Panel you can quickly modify the current appearance of video content and the desktop, and easily revert the changes. This is particularly helpful if you need to change the appearance of an application temporarily, or want to permanently adjust your video output but not your carefully calibrated desktop. Simply right click your desktop and select the NVIDIA Control Panel top open the window. Please note that some games and applications will override calibrations and Control Panel tweaks. To workaround this problem, you can try CPKeeper and Color Sustainer . Conclusion By this point your monitor's picture should be looking better than ever before. You may initially feel the look is bad or wrong, but give it a few days and you'll probably change your tune once your eyes adapt. If all else fails, you can always go back to your original setup. If you stick with it though you'll see games as developers intended, and get more accurate color reproduction in videos, movies, TV shows, and pictures. If calibration can't fix your complaints, however, consider a brand new monitor with superior color reproduction, reduced input lag, wider viewing angles, and zero motion blur. At the time of writing, TFT Central rates the Acer Predator XB270HU 2560x1440 G-SYNC IPS-panel monitor as the "new king of gaming monitors", and on Display Lag the BenQ XL2430T , BenQ XL2420G G-SYNC , and ASUS ROG Swift PG278Q G-SYNC TN-panel monitors are tied in the all-important Picture Quality, Input Lag, and Response Time categories. If you don't need anything quite as fancy though there are plenty of other great monitors out there that should provide a superior experience, reducing eye strain and making your games and multimedia look better than before. For more guides that help you get the most out of your PC, and help you build a brand new system, check out the GeForce Garage homepage . And next week we'll show you how to set up a Surround multi-monitor gaming system in the final episode of our Cross Desk modding series . Got any other monitor calibration tips that we didn't cover? Want to see a GeForce Garage guide on a specific topic? Let us know in the comments! Overview: NVIDIA® nTune is the ultimate utility for accessing, monitoring, and adjusting your system components, including temperature and voltages with clear, user-friendly control panels. Overclock your system for highest performance or underclock it for near silent operation. All changes are performed within the Microsoft® Windows® interface – enabling full functionality without the need to make changes in the BIOS and reboot your system. Check out NVIDIA® nTune version 5.05.54.00 here or search the NVIDIA main site for more information.

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- xate
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