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How does virtual desktop work vr

Virtual Desktop is an application available on the Quest store that enables users to stream their desktop, videos, or PCVR games wirelessly from a VR-ready PC. The app supports wireless PC VR gaming, allowing players to enjoy Steam VR and Meta PC games without cables. Additionally, Virtual Desktop offers desktop access, enabling users to utilize their Windows PC in VR with customizable virtual screens. Media streaming is also supported, permitting users to watch movies and videos in various virtual environments. The application requires a Quest headset (Quest 1, 2, Pro, or 3) and a VR-ready PC (Meta PC requirements). For optimal performance, it's essential to use a 5GHz or better router and an Ethernet connection from the router to the PC. Users can check their local network setup details in our wireless PCVR guide. Virtual Desktop streams games from the user's PC to the Quest headset, similar to how Netflix works for VR. The app does not require internet speed; instead, it focuses on the user's local network setup and connection to their PC. The application allows users to choose their virtual space, display a game launcher showing Steam VR and Meta PC games, and automatically select the best runtime. Direct desktop interaction is also supported, including auto-hide hands when inactive, passthrough hands, and controller interaction with the desktop. Additional features include pointer stabilization, automatic hide controllers, thumbstick scrolling, hand tracking, grip button, hold menu, create desk portal, auto connect, screen brightness control, dynamic lighting, audio options (background music on boot and microphone passthrough), custom environment orientation, boost clock rates, and copy screenshots to desktop. To enhance video playback on Meta Quest devices: • Enable videos in the Media tab. • Toggle between REC.2020 and REC.709 color spaces. • Set Remove Head Lock Delay for optimal desktop streaming performance. • Select supported headsets from a list of three monitors, two monitors, or one monitor. • Choose Optimal Resolution to lock resolution to optimized Quest display or use native monitor resolution. • maximize bitrate up to 120mbps shared between active monitors (1-3 monitors: 40-120mbps). Meta Quest's Virtual Desktop features enable advanced tracking and display capabilities for an immersive VR experience. To start, enable controller tracking and forward tracking data to PC for enhanced performance. Increase color vibrance to adjust the color space between REC.2020 and REC.709. Additionally, increase video nominal range to enhance contrast, show performance overlay to view metrics, and access body tracking features through Meta's built-in system. For Quest 3, camera-based upper body tracking is available, while Quest 2/Pro/1 support full-body estimation based on head and hand positions. Individual trackers can be disabled via configuration tools, and users can also access Quest Pro's advanced facial expression and eye tracking features using Dentech's configuration tool. Synchronous Space Warp (SSW) can be enabled or disabled, allowing for frame interpolation when needed. Other options include enabling Natural Facial Expressions, calibrating Eye Tracking, configuring Virtual Desktop settings, and adjusting display parameters such as transparency, curve, size, and seat position. The Virtual Desktop now offers a built-in alternative to SteamVR for OpenXR apps with superior performance and support for high-bitrate H.264 video on Quest 3 devices. Valve recommends OpenXR API for SteamVR's Virtual Desktop, offering improved performance over SteamVR. ####Key Features and Improvements of the Update * VDXR (Virtual Desktop eXtension) offers around 10% better performance than SteamVR, although it disables certain features like desktop access and notifications. * The VDXR was developed by Microsoft software engineer Matthieu Bucchianeri in his free time, not by Guy Godin as initially claimed. * Virtual Desktop allows users to choose between different runtimes or use the Automatic option, which uses SteamVR for most games but selects a few that perform better with VDXR. * The update also improves PC VR streaming technology on Quest 3, including support for up to 500 Mbps bitrate and increased maximum bitrates for various codecs. You'll need a headset with no latency and high quality for a smooth VR experience. Your basic laptop will work fine for mirroring content to the headset, but playing high-quality games may require a gaming computer. We have step-by-step instructions below to help you set up Virtual Desktop on Meta Quest today. To achieve low latency, you'll need a dedicated wireless access point (AP) for your Meta Quest. An AP is essentially a sub-connection of your regular internet that extends your network and allows more devices to connect. For this setup, it's recommended to give the Meta Quest a dedicated 5Ghz connection that doesn't have any other devices competing for bandwidth. A dual-band router that supports 5Ghz can be used as an AP by placing it in this mode. The Tenda AC1200 is a basic but effective option according to Reddit, though its only drawback is having only 100 Mbps ports, which might not be ideal for Virtual Desktop. The Tenda AC10U offers Gigabit ports and is worth the extra cost for maximum throughput and minimal latency. Newer Meta Quest models come with WiFi 6 support, allowing you to take advantage of faster speeds and better performance. This includes features like orthogonal frequency division multiple access (OFDMA) and quadrature amplitude modulation (QAM), which increase data rates and capacity while reducing interference. A dual-band router is necessary for this setup, offering a 2.4GHz connection for devices that need a wider range but slower speeds, and a 5GHz connection for faster speeds at closer ranges. For Virtual Desktop on Meta Quest, the 5GHz network is preferred to achieve low latency. If you don't have a dedicated router or prefer not to use an AP, other options are available for setting up Virtual Desktop on your Meta Quest. To play PC-VR games on Meta Quest using Virtual Desktop, follow these steps: Download and install the Streamer app from the official Virtual Desktop website. Configure your router settings to create a dedicated AP, then connect it to your main router and PC via Ethernet cables. Connect your Meta Quest to the 5 GHz access point Wifi connection. Install Oculus Store on your PC, then launch Virtual Desktop to play VR games with low latency and high quality. Check out our VR deals page for discounts on popular games like Skyrim VR and No Man's Sky. You can also use a community-created list of compatible SteamVR games for Virtual Desktop on Meta Quest. Ensure your computer hardware meets the minimum requirements set by Steam, then implement recommended settings in Virtual Desktop, such as disabling 2.4GHz option, setting Video Frame Rate to Medium or 90 Hz, and enabling Boost feature. Before starting, check out our VR deals page for steep discounts on popular games. Set your router to AC mode only if supported, and adjust the Virtual Desktop Bitrate Settings to find optimal performance for you. When using Virtual Desktop on Meta Quest, turn SSW on automatically in the settings to improve video performance. Select the correct VR Graphics Quality for your computer's GPU and enable Sliced Encoding in Advanced Options. Keep your dedicated router close to your computer and VR headset for a smooth experience. Internet speed has no bearing on gameplay quality. Users can customize several aspects of Virtual Desktop, such as screen brightness, graphics quality, framerate, bitrate, and gamma. Hand tracking allows playing games without controllers, using hand movement to control the game instead. Virtual Desktop supports higher refresh rates, including 120 Hz on newer Meta Quest hardware, making faster games feel smoother. You can connect a Bluetooth device, like a mouse or controller, to control your computer in Virtual Desktop without being connected to it. The app also supports upscaling with Snapdragon Game Super Resolution (SGSR), adding upscaling capabilities to PCVR games. You can stream multiple monitors to your Quest headset, depending on the hardware you have: 3 and 3s models support up to 3 monitors, while Meta Quest 2 and Pro models support up to 2 monitors. SSW is a key feature in Virtual Desktop that removes stutter and lag from video by 'guessing' the next frame of your game. Frequently asked questions include: internet speed does not affect Virtual Desktop performance, but having a stable connection is crucial. It's recommended to connect your VR-PC to your main router via an ethernet cable and use a dedicated 5GHz access point for better latency. Users can also optimize their router settings using WLAN-Optimizer or by trying out different 5GHz channels in the router settings. Virtual Desktop supports all versions of Meta Quest hardware, including Meta Quest Link, Air Link, and Steam Link. Even with these options available, Virtual Desktop continues to improve its software. For optimal connectivity, only your Meta Quest can establish a connection to the 5GHz band on your router; all other devices will default to the 2.4GHz frequency. If you have a tri-band router, you can designate one of the 5GHz wireless bands exclusively for use with the Quest. These settings are easily configurable through your router's web interface, accessible via " " or by entering the router's IP address in your browser.

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