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## Hp displayport to hdmi best buy

In the world of audio / video ports, the two connectors reign supreme: DisplayPort and HDMI. Although they are both used to connect a computer to an external monitor or device, they are suitable for very different purposes. While some techies swear by DisplayPort, the issue of which is better rests entirely on what you are trying to achieve. Do you need to project PowerPoint on your TV screen? Or are you trying to create 4K monitors or dual monitors to get the best RPG game experience around? Whether you're a power PC user or just want more flexibility in home office setup, you should understand the different uses of these two popular connector cables. This will make your computer experience much more enjoyable. Take a look at the various pros and cons of DisplayPort vs HDMI with us to get a sure grab of your various abilities. Before diving, where the audio/video plug is best for specific uses, it is important to know how they differ in terms of both appearance and the functions they support. VGA cables have pins that transmit analog video information from one device to another. DVI is similar, but can be sent to a digital or analog. The DisplayPort, developed in 2006, was designed to update old VGA and DVI standard connectors. DisplayPort also adds an audio signal, which means fewer cables. DisplayPort is available in two basic sizes: standard DisplayPort and Mini DisplayPort. Both sizes are equipped with 20 pins and have a locking mechanism that prevents the cable from accidentally pulling out. The most commonly found computers, rather than TVs, have three standard DisplayPorts you can likely encounter:DisplayPort 1.2: supports video resolutions up to 4K (3840 x 2160 pixels) 60 Hz, the most common 3D video format with a bandwidth of 17.28 GbpsDisplayPort 1.3: supports video resolutions up to 4K 120 Hz or 8K 30 Hz with a bandwidth of 32.4 GbpsDisplayPort 1.4: Supports video resolutions up to 8K 60 Hz, HDR (High Dynamic Range) with a bandwidth of 32.4 GbpsOne potential downside DisplayPort is its inability to transfer data to Ethernet. However, it is able to support 2 monitors with a resolution of 2560 x 1600 or 4 monitors 1920 x 1200. There's even the option of daisy-chaining up to six displays at once if your GPU allows multiple DisplayPort interfaces. Hdmi (High Definition Multimedia Interface) connectors look similar to displayport, but they have 19 pins and no locking system. There are three common sizes: Type A (standard), Type C (mini) and Type D (micro). It's possible you're familiar with this type of connector because TV producers often build it in their products. Modern displays, you can find: HDMI 1.4: supports video resolution up to 4K (4096 x 2160 pixels) 24 Hz, 4K (3840 x 2160 pixels) 30 Hz and has a bandwidth of 10.2 GbpsHDMI 2.0 supports resolution up to 4K 60 Hz in later versions, including HDR capabilities, and has a bandwidth of 18 GbpsHDMI 2.1: supports video resolution up to 10K 120 Hz, improved HDR and improved Audio Return Channel, and has a bandwidth of 48 GbpsHDMI can handle only one video stream and one audio stream, making it compatible with only one monitor at a time. They also have an audio return channel (ARC) that allows you to send audio from your TV to an audio bar or AV receiver. The drawback of HDMI is that there are four different cable types, and choosing the wrong one can have a negative effect on your screen. Take a look at the differences:Standard HDMI cable: Enough bandwidth for video resolution 720p and 1080iStandard HDMI cable Ethernet: Same bandwidth as standard cable, but includes support for 100 Mbps Ethernet High SPEED HDMI Cable: Supports video resolution 1080p and higher, 3D video and has increased bandwidthHigh Speed Cable HDMI Ethernet: Same features as high speed cable but additional support 100 Mbps Ethernet , we want to note that there is a Mini DisplayPort introduced by Apple. Although the First Generation Mini DisplayPort did not make audio, newer computers with Thunderbolt technology can use a Mini DisplayPort HDMI adapter that runs displays up to 4K. Now that we've defined the capabilities of both connector types, it's up to DisplayPort or HDMI to decide how you plan to take advantage of the digital world. Home theater has never been better. Ultra HD 4K brings a silver screen to your living room. That's why it's important to choose the right connector that allows you to take full advantage of incredible image quality. You want a 60 Hz refresh rate at least, otherwise your 4K experience will be interrupted by jerky images and blurry text. You'll probably find an HDMI port on the back of the TV, so 2.0 or 2.1 is essential for optimal 4K viewing. To ensure even more exceptional image quality, some TVs are now equipped with an HDMI 2.0a port that supports high dynamic range (HDR). This additional feature changes a lot of the colors you get and the contrast between whites and blacks. If your TV happens to be accompanied by a DisplayPort, version 1.2 or higher cable is completely compatible to give you the high resolution you desire. Aside from TVs, PC monitors supported by 4K resolution makes a huge difference in all your streaming and online visual work. The TV must be quite big to experience the full 4K majesty when you're sitting on the couch. The computer monitor, on the other hand, is usually viewed much further afield. 4K can greatly improve the quality of editing software, video game graphics and other productivity applications. If between DisplayPort vs. HDMI cable 4K screens, the main thing to pay attention to is the monitor's refresh rate. If you don't recognize this term, the refresh rate is how many times the screen changes the picture. It's also called frames per second (fps) on the worlds of film and gaming. While higher is not always better, a higher refresh rate usually means you can get crisper visuals. So make sure that your connection cable supports a refresh rate of at least 60 Hz to understand the hype behind 4K technology. Is it time to upgrade your game rig? Before you pull out your wallet to buy a new graphics card or monitor, make sure you know how to connect it to a game laptop. Small research will help you make the most of each keystroke and command so that you can achieve virtual glory. There's nothing worse than experiencing a significant screen tear when you're in the middle of a great battle. If this is a common problem with your gaming experience, chances are you won't be using the right audio and video connectors. So how does DisplayPort vs HDMI shape up for gaming? This is a simple answer: all serious gamers should probably use a DisplayPort cable to connect their monitors to the graphics card. Most graphics cards and gaming computers add this port to your design, making it easy to create a rig of your dreams. In addition, DisplayPort offers a good bandwidth of 32.4 Gbps, which significantly reduces screen tearing. Because of your 3:1 compression relationship, you experience damage-less screen quality, which makes complex tasks easy. While it eventually comes down to its specific move, DisplayPort offers the most versatility in terms of which graphics cards and number of monitors can hook up your rig. Not to mention that all DisplayPort cable works just fine whether hardware updates are made on external devices or not. HDMI 2.0 is quite much equivalent to DisplayPort in terms of its overall capabilities, but not many cutting-edge game monitors are designed to take these ports in mind. As mentioned above, HDMI connectors are usually found on TVs, which only make them a good choice for gamers who want to play on one big screen. If you're playing over an HDMI connection, remember a high-speed HDMI cable. These cables have bandwidth to handle resolutions of 1080p and higher, making them perfect for HD and 4K gaming. Choosing the right plug really depends on where and how you want to play, along with your expectations for the quality of the graphics. Although both DisplayPort and HDMI are compatible when watching video in 4K resolution, how does that change when you're a person who created the video? Professional visual designers, such as film editors and graphic artists, require high-end 4K monitors to show their work so they can see even the slightest detail. As regards the and refresh rate, there is not enough difference between the two connector types sway designer used one or the other. However, in terms of physical functionality, the ability of DisplayPort daisy chain monitors can have a significant impact on their workflow. Daisy-chaining is a method of connecting multiple monitors without connecting more than one cable to the source computer. You can connect to a display with DisplayPort, and then connect to its first monitor. You can add several different screens in a row, making the powerhouse work setup designers who need to keep an eye on many elements at once. It is not uncommon for PC users to get into a problem with inappropriate connector ports on their laptops and screens. If you can't directly connect to two DisplayPorts or HDMI ports, there are many adapters that can bridge the gap. On flipside, you can easily connect any HDMI monitorDisplayPort equipped with a computer DisplayPort to hdmi converter cable.

Remember that this cable only supports a resolution of 1080p and not 4K. Warning: A complex business transition from video and audio from one standard to another can sometimes cause problems with the end result on the screen. Digital signal conversion usually means using the lowest maximum resolution and refresh rate, which actually lowers your viewing experience. When investing in consumer electronics, you need to consider using immediate measures against future planning when you start using new technology. The critical difference that needs to be made when selecting an adapter is either getting inactive or active. Passive adapters are typically cheaper and depend on DisplayPort connectors that support two-mode. Active adapters are more expensive because they use additional converter microchips to customize the DisplayPort signal. If you plan to connect a DisplayPort video source to multiple HDMI monitors, you'll probably want an active adapter. This is because some graphics cards do not support dual-mode output on multiple monitors. So is DisplayPort better than HDMI? When you select with DisplayPort or HDMI, the devil is in the details. Because TVs, graphics cards, computers, and monitors can have only one option, it can often force your hand on one side or the other. If you have a choice, it's important to evaluate what you're using on the external screen and which features are most important to you. Generally, HDMI wins every time the TV is involved. Its simple, single connection is ideal for users who want to add their computer to a larger living room screen or screen in the conference room at work. The latest versions are capable of incredible resolution and eARC.Users who want to create multiple displays of video games or intensive office desktop stations, DisplayPort offers more flexibility and power. Lock there are also nice touch users concerned about accidentally tugging the plug and losing visibility during important work. At the end of the day, the DisplayPort vs. HDMI vs. DVI discussion comes down to what ports your screen has, and what you use it for. Related Articles: About Author: Megan Edwards is a contributing writer for HP® Tech takes. Megan is a digital content creator based in Southern California and specializes in creating multimedia content in various industries, including technology. Technology.

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