Click to prove you're human

I'm not saying the best OLED TVs for gaming usually end up winning me over, but there's a reason all the best panels used organic LED tech. While screens armed with the display type certainly had their drawbacks, new models come with next to no caveats and provide exceptional colors. Simply put, if you want your favorite outings to pop and you've already tried QLED and mini LED alternatives, I'd start thinking about a new OLED display.The best OLED TV for gaming right now is the LG OLED G4, as I believe its 4K 144Hz abilities represent the future of console gaming. Even if you can't make full use of that faster refresh rate right now, I'm certain that newer systems like the PS5 Pro will find a way to push the screen to its limits, and current gen consoles can already hit 120Hz in shooters like Overwatch 2. Plus, thanks to the tech giant's MLA (micro lens array) tech, you're getting fantastic fidelity paired with immense vibrancy that'll put your local cinema to shame.That said, the LG OLED G4 isn't the only best gaming TV with an excellent OLED panel, and I have tested numerous options that'll cater to different budgets and setup requirements. While most models are still going to set you back a pretty penny, there are still options that are a bit more approachable in terms of price point that pack a colorful punch.The quick listThe best OLED TV overallImage 1 of 5(Image credit: Future / Phil Hayton)(Image credit: Future / Phil Hayton)(Image credit: Future / Phil Hayton)(Image credit: Future / Phil Hayton)(Image credit: Future / Phil Hayton)Following in the footsteps of last year's G3 model, the LG OLED G4 takes the stage with Micro Lens Array tech and faster 144Hz visuals. Pair that with an improved AI processor for better image processing and fantastic anti-glare properties, and you've got yourself a top TV contender that won't be easily toppled.The main selling point of the LG OLED G4 is, unsurprisingly, its OLED screen. The aforementioned MLA panel punches far harder than traditional iterations, providing superior brightness and contrast that elevates HDR and SDR content. However, the fact this new model also ramps the refresh rate up from 120Hz to 144Hz means it's truly worth of its high-spec screen status, serving up glorious visuals to console owners and PC enthusiasts alike.If we're being real for a second, most modern TVs don't have much to offer in the athletics department, but the OLED G4 does maintain premium vibes. At the round, its rectangle pedestal stand provides an elegant minimalist look for those of you with a TV bench, while the back is low profile enough to fit fairly flush to a wall. Extra attention to cable channels is also included round the rear, with an angled approach to ports that makes hot-swapping possible at the left while keeping more permanent connections more out of sight.We've tested the LG OLED G4 using multiple games, consoles, and PCs, and the screen helps every visual flourish. Whether you're playing Overwatch 2 at 120Hz on a PS5 or a horror game like Still Wakes the Deep on Steam, this display is out to impress with its exceptional HDR abilities, incredible contrast, and super-sharp 4K fidelity. It's even fast enough to compete with many gaming monitors on the speed front, with that 144Hz refresh rate and 0.1ms response time keeping shooters and fast-paced adventures feeling swift.It might be one of the priciest OLED TVs out there, but if you're in the market for the absolute best displays available in 2024, the LG OLED G4 is arguably it. That's not to say different players won't benefit from picking up alternative panels, but this one really does check all the boxes and go above and beyond in terms of visuals.Read more: LG OLED G4 reviewThe best OLED TV for most players(Image credit: Steve May)If the G3 is a bit out of budget, you might want to check out the LG C3, as the series boasts similar specs and a lower price point. You'll still pay pretty penny to get a hold of one of these premium models, but you'll be able to spend a bit less and still pick up an 4K 120Hz panel with gaming bells and whistles.The main draw with the C3 is naturally its OLED display, as its going to provide you with the excellent color and contrast you'd expect from an LG panel. Throw HDR10 support into the mix, and you've got a vibrant portal to your favorite gaming worlds that'll produce life like results that pop, and you'll never look at a standard LED screen the same way.While smart TVs normally focus specifically on streaming services, the LG C3 has a dedicated Game Dashboard that provides quick access to features like VRR, game optimisers, and other latency related settings that'll make all the difference to console and PC performance.Its worth noting that during testing, we noticed that the smaller C3 model isn't quite as bright, so that's worth keeping in mind if you're looking for something brighter.Read more: LG OLED C3 reviewThe best QD-OLED TV(Image credit: Samsung)Gloriously slim, with class-leading luminosity, this first QD-OLED from Samsung is eye-catching in every sense and could be the ground-breaking new Tv for PS5 or Xbox Series X we've all been waiting for.Combining the characteristic OLED black levels with the high peak brightness and the expanded colour volume of Quantum Dot technology, the S95B is a superb choice - particularly if you prefer to use your TV in a room with high levels of ambient light.All four HDMI inputs are v2.1 and support 4K 120fps sources, while there's also VRR (Variable Refresh Rate) with NVIDIA and AMD FreeSync support, plus ALLM (Auto Low Latency Mode). Samsung also has a dedicated Game Hub interface. Input lag is low in Game mode; we measured it at 9.6ms (1080/60). HDMI 3 also has eARC, for use with a Dolby Atmos soundbar.The smart platform of choice here is Samsungs Tizen. It has a wide variety of streaming services on tap (Netflix, Prime Video, Disney+, AppleTV+, BBC iPlayer, to name just a few), as well as Samsungs own TV Plus IP-delivered channel service. Its also compatible with SmartThings-connected devices.Of course, the key attraction of the S95B is its QD-OLED panel and matching Neural Quantum Processor. The latter uses AI-driven Optimization to manage sound and vision, so you dont need to think too much about it. The image quality is spectacular. The level of detail is excellent, and its HDR performance is remarkable. We measured peak HDR brightness in excess of 1400 nits. Unfortunately, theres no support for Dolby Vision, but you do get HLG, HDR10, and HDR10+ compatibility. Its not just peak HDR brightness which glows: the sets average picture level is high and this makes it easy to view in bright rooms, but can make for a fatiguing watch. Its not subtle, and even the Game mode looks overwrought. On the plus side, 4K 120fps playback is buttery smooth.All things considered, the Samsung S95B is a highly impressive QD-OLED debut. Its peak brightness is phenomenal, and colour depth is high. It never looks particularly cinematic though, and even in Game mode, pictures can seem over-saturated. Some will love the presentation though, and for them it might just be the best OLED TV going.Read more: Samsung S95B reviewThe best OLED TV for deals(Image credit: Future/Steve May)The first of LG's 2022 OLED TV range that we've seen, the C2 is a feature-packed, high-end 4K OLED with novel Brightness Boosting technology and a full fist of gaming support that we couldn't help but fall in love with during our testing. It's an early contender for best OLED TV of 2022, for sure - but doesn't straight-up replace its predecessors, the C1 and C2, due to their quality, and this set's high price tag.At the heart of the C2 is an all-new processor: the Alpha 9 Gen 5. Its this that powers the set's Brightness Boosting technology, which uses algorithms to enhance the brightest areas of an image in real-time and improve HDR handling. The result is a big improvement on last years C1 model. We found the overall image quality to be outstanding, with superb clarity, zero banding, and fabulous shadow detail.Gaming chops are strong in this TV: all four HDMI inputs are v2.1 certified and support 4K 120Hz; and theres extensive VRR compliance too, including NVIDIA G-Sync and AMD FreeSync. Throw in the sets Game Optimizer that puts all key gaming parameters in one place, and an input lag of 13.1ms (1080/60), and you can see why this has all the makings of one of the best 120Hz 4K TVs of 2022, hands down.The TV sports a slick new cosmetic design that should keep fashionistas happy, and we love LGs cosmetic tweaks: the bezel is virtually non-existent, and the panel also sits on a more conventional central pedestal, which reduces the need for wide AV furniture. As for tweaks on the inside, there's a very well-appointed smart platform, webOS 22, which comes with all key streaming services, including Netflix, Prime Video, Disney+, and Apple TV. Its compatible with Google Assistant and Amazon Alexa smart systems, too, for voice control of inputs and channels, as well as content search when used alongside LGs own ThinQ AI platform.Overall, we found this to be - perhaps predictably - a truly stunning OLED display, and while theres a high price to pay for being so absolutely fabulous, particularly when compared to its C1 predecessor, it's so worth it, and absolutely one of the best OLED TVs of 2022.If the C1's availability does grind to a halt - as expected - soon then the C2 will be the best OLED TV to go for.Read more: LG OLED C2 reviewThe best Value OLED TVImage 1 of 5(Image credit: Future/Kizito Katawonga)(Image credit: Future/Kizito Katawonga)(Image credit: Future/Kizito Katawonga)(Image credit: Future/Kizito Katawonga)(Image credit: Future/Kizito Katawonga)The A80J is one of Sonys sleeper hits and is the second tier of their OLED range. As such, it boasts incredible picture quality in SDR and HDR thanks to Sonys impressive Cognitive Processor XR. Movies are beautifully rendered in a cinematic film that is true to the director's intent. The exceptional contrast of OLED is put to excellent use here with deep inky blacks and clear, bright highlights. Its not the brightest TV in the world but viewing it in the daytime and in bright lights was still a pleasant experience.It supports Dolby Atmos Audio on top of doing native 3D surround upscaling of any audio source going into the TV. The TV can also live scan your room to best calibrate the sound. We found the sound adequate but like most TVs, a sound bar is recommended.As a premium TV, the A80J comes with all the essentials. It has 4 HDMI 2.1 ports with two that support ALLM and VRR for 4K 120Hz gaming. Gaming is fantastic on this screen thanks to the 120 Hz refresh and low latency under 10ms. It only recently got a firmware update that brought VRR but its implementation isnt as seamless and smooth as that on LG or Samsung TVs. And unlike competitors, there isnt a dedicated Game mode interface to fine-tune the TVs gaming settings.Overall, the Sony A80J is a great alternative to LG when browsing for the best OLED TV - even though it won't quite match their gaming prowess.Read more: Sony A80J reviewThe best small-scale OLED TVImage 1 of 6(Image credit: Sony)(Image credit: Future/Steve May)(Image credit: Future/Steve May)(Image credit: Future/Steve May)(Image credit: Future/Steve May)(Image credit: Future/Steve May)This Sony A90K OLED TV might be relatively bijou, but its packed with advanced picture-making tech. Also available in a 48-inch version, this set shines as both a near-field gaming monitor, an everyday TV, and a fine small-scale OLED TV.The star of the show, and key to its outstanding image clarity, is Sony's Cognitive Processor XR, which cleverly prioritises the elements of an image that our eyes naturally focus on. The result is a presentation thats always detailed and dynamic. The A90K looks great with 4k streaming services, and the 4K 120fps gameplay is velvety smooth.A downsized version of Sonys Acoustic Surface Audio+ delivers crisp audio, courtesy of actuators that vibrate the screen. This technology works fine for dialogue clarity, but falls short when it comes to bass depth; the A90K can sound a little thin. There are four HDMI inputs, two of which are v2.1 enabled and capable of 4k 120fps playback. These also support VRR (Variable Refresh Rate) and ALLM (Auto Low Latency Mode). One of the v2.1 inputs supports eARC but that happens to be one of the HDMI 21. ports... The set also has two USB inputs, a digital optical audio output, and Ethernet for Bluetooth and Wi-Fi connectivity.Overall HDR performance is good, with high peak brightness measured at 700 nits with a 5 percent patch. HDR support covers Dolby Vision, HDR10, and HLG, but theres no compatibility with HGiG, the HDR gaming standard. Connect a PlayStation 5 and youll benefit from Auto HDR Tone Mapping and Auto Genre Picture mode selection, which is useful. Input lag is average though, just 15ms (1080/60).Overall, the Sony A90K is a superb-looking small-screen OLED TV, but be aware of the niggles before you buy.Read more: Sony A90K reviewBest OLED TV: FAQsThe main, commonly spoken about disadvantages that OLED TVs have is the potential for screen burn-in (where pictures, artefacts, and outlines can still be seen on the screen long after it's been turned off), degradation over time, and a relatively higher price tag. However, especially in the most modern TVs, the burn-in is not really a problem that's proved to have an impact, the degradation over time is not unique to OLEDs as other screen types will, naturally, get weaker over time - but the cost factor is something that remains. Particularly on those higher-end Sony models, it's clear that some extra investment is required.Arguably, QLED (Quantum LED) TVs can offer great contrast and lighting that's on par with OLED. That said, we'd advise sticking with the latter if you care about black levels, as QLED can't independently turn pixels on and off. Well, when considering the best OLED TVs, this is the big question. It's clear that LG is the most popular and often ticks all the right boxes, particularly from a gaming perspective. Most notably, LG Display is the company that makes the OLED panels for other brands like Sony, Vizio, and Panasonic. Sony's OLEDs are also thought of in extremely high regard - but often demand a bit more of a premium. You can't go wrong with either of those but budget-friendly makers like Vizio and Panasonic are starting to crank out some more attractive OLED panels too.OLED TVs are considered one of the best premium options around, and they can produce gorgeous colors that other displays cannot. That said, that doesn't necessarily mean all the best TVs use the tech, as there are plenty of panels out there that pack a visual punch. Not to mention QLED alternatives are available if you're on a budget.In the most reductive and simplest of answers, yes, they do. However, much has been made of screen burn and OLED TV degradation - basically to the point of gross exaggeration and misrepresentation. And those two factors are important to separate. The latter (degradation) will happen naturally just through the effects of old Father Time - with each diode emitting its own light, this will fade ever so slightly over time. The former, screen burn, is a potential factor to be aware of, but in real terms is easy to avoid.Want to check out some of the latest TV deals at the best retailers? These stores often have some excellent sales running:USA: Amazon | Dell | Best Buy | Walmart | NeweggUK: Amazon | Currys | Very | Argos | AOIf you prefer your screens enormously big, then check out the best 4K projector and best projector for PS5 and Xbox Series X. Skip to main content Reddit and its partners use cookies and similar technologies to provide you with a better experience. By accepting all cookies, you agree to our use of cookies to deliver and maintain our services and site, improve the quality of Reddit, personalize Reddit content and advertising, and measure the effectiveness of advertising. By rejecting non-essential cookies, Reddit may still use certain cookies to ensure the proper functionality of our platform. For more information, please see our Cookie Notice and our Privacy Policy. OLED gaming displays are finally being released in droves, and we've reviewed heaps of them to offer advice on the best OLED gaming monitor you can currently buy. Incredibly fast response times, per-pixel lighting, and deep black rendition mean that OLED panels are highly prized as gaming monitors.Currently, there are two main suppliers of OLED panels that go into OLED monitors from all brands, namely LG's WOLED tech and Samsung's QD-OLED. Samsung's QD-OLED tech probably had the edge in the first couple of generations. But LG's latest revision of WOLED has closed the full-screen brightness gap while avoiding some minor QD-OLED issues, such as the slight greyness of black tones in bright ambient light.However, it's a very close call and that's why our best overall OLED monitor remains the MSI MPG 321URX QD-OLED. The latest QD-OLED panel offers a crisp 4K resolution and unrivalled vibrancy, but in this particular monitor, you can get it for less. If you prefer refresh rate over resolution, the best 1440p OLED gaming monitor is the MSI MPG 271QRX, which is capable of an incredibly quick 360 Hz. Still, if money is absolutely no object, the LG UltraGear 32GS95UE with its stunning WOLED panel is the absolute best of the bunch. For now.The Quick List Click to load more of the best OLED gaming monitors Curated by...Best OLED gaming monitorImage 1 of 10(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)Buy if... You want one of the best 4K OLED panels, for less: This Samsung-sourced panel features in some of our favorite OLED gaming monitors, but here you can get hold of one for much less than the competition.Don't buy if... You're looking for ultrawide hijinks: The MSI is a fabulous panel and a great size, but you can go bigger and wider if you really want to splash out on something that dominates the room.Well, we're now living in a world where multiple, brilliant OLED monitors are most definitely a thing. But the problem is, the prices are still sky-high. While this particular display is still not what you'd call cheap, it's significantly less than the competition, and best of all, it uses the same panel as some of our very favorites. That makes the MSI MPG 321URX the best OLED monitor you can buy right now.It's not like you're getting a whole lot less for your money, either. While the chassis isn't exactly the most stunning piece of design we've ever seen, it's decently made and looks subtle enough that it won't stand out on most people's desks. What will stand out, however, is the fabulous color reproduction when you turn it on.OLED displays are famous for their vivid colours, and the MPG 321URX is absolutely no exception. Thanks to a glossy coating and that Samsung-sourced panel, it really does invite all those monitor reviewer clichs: Zap, zing, pop, pow. It's a fabulous-looking thing.Brightness is a bit of a downside of OLED tech, but with a full-screen rating of 250 nits, this screen is still plenty bright enough for most. DisplayHDR 400 mode provides the most punchy picture, but you can switch to a 1,000-nit mode for darker scenes with better highlights. HDR is still a pain on a Windows machine, and we wish you didn't have to mess around with the settings like this, but the MSI is far from the only display with this issue.What's much less of an issue than many OLEDs here is the text display. OLEDs can color fringe and blur text quite badly, but the MPG 321URX is much better than most, meaning it makes for a fine productivity monitor as well as a gaming and media beast.Burn-in is always a concern on any OLED display, but here, MSI has mitigated it with plenty of tech, alongside a three-year burn-in warranty that should provide some reassurance. All OLEDs need a bit of special care in this regard, but these sorts of warranties are now common.As with all OLED monitors, the price isn't low, but you can often find this monitor for $899 or less, which means the MSI handily undercuts its competition, with very little drawback. That makes the MSI MPG 321URX the best OLED display we've tested to dateand as it so happens, the best gaming monitor overalland the one we'd buy with our own money.Read our full MSI MPG 321URX QD-OLED review.Best 1440p OLED gaming monitorImage 1 of 7(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)Buy if... You want the ultimate 1440p gaming monitor: This is the fastest, most responsive 1440p panel we've tested.Don't buy if... You want an immersive experience: The 16:9 aspect at 27-inch feels a bit puny, and you can get a lot more for your money.The best 1440p OLED gaming monitor is the MSI MPG 271QRX. This 27-inch screen swaps resolution for speed with a mahoosive 360 Hz refresh rate, alongside an excellent 0.03 ms response time more commonly found across OLED panels.Broadly speaking, a 27-inch 1440p gaming monitor is the most sensible blend of size, resolution, performance and price for PC gaming. The 271QRX isn't sensible, however, with its extreme refresh rate, response time and frightfully massive price tag.But before you get too put off by the price, the Samsung-made panel within this MSI monitor is excellent in its response, vibrancy and contrast. It's the same panel as many of the best OLEDs, so expect nothing less of this for its rapid-fire response.It's also much easier to drive the 271QRX than almost any other OLED in the guide. The standard 1440p resolution is relatively easy-going for most mid-range graphics cards, though if you think that means you can save some cash, think again.This monitor is extremely expensive versus other 1440p panels, but that's the price you pay for that lovely, luscious OLED. You can almost forgive a high-end OLED with a 4K or ultrawide resolution for its large price tag, but a 27-inch 1440p is a much tougher pill to swallow. That slim resolution may net you a high refresh rate, but it does suffer from text fringing worse than higher-resolution screens.MSI offers some interesting burn-in protection features on the MPG 271QRX, including logo and taskbar detection. These both auto-dim specific elements on the screen when they're present, to prevent the risk of burn-in on frequently displayed things. That's handy, as it means you don't have to bother with auto-hiding your taskbar or anything like that. Plus, this panel has quite a bit of overprovisioning, which is another boon to the longevity of the panel.While we prefer other OLED monitors for the price, if you really must chase the best monitor for competitive gaming, the MSI MPG 271QRX is definitely in the running. The natural benefits of its OLED panel with a focus on speed make for a mighty impressive screen, even if it's anything but cheap.Read our full MSI MPG 271QRX review.Best ultrawide OLED gaming monitorImage 1 of 5(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)Buy if... You want an LG OLED panel: This second-generation offering from LG is a real stunner, and significantly brighter than the last. You feel the need for speed: That 240 Hz response time is not to be sniffed at, and it's got all the sharp OLED reflexes you could wish for.Don't buy if... You're on a budget: It's seriously good, but seriously pricey to match.It's a coveted spot, the best OLED ultrawide position, but we really have to hand it to the Asus ROG Swift OLED PG34WCDM. It's a truly beautiful display to behold, and so speedy it practically dashes across your desk. You'll have to pay for the privilege, but it's difficult to imagine anyone would be disappointed by what you end up with here.With a 3,440 x 1440 resolution, 99% DCI-P3 color coverage and a 240 Hz refresh rate, it's certainly got a spec sheet that looks great on paper. But you won't be staring at the specs day in and day out, so really it's about what this monitor looks like in personand we're pleased to report it's an absolute corker.From the punchy, vibrant colors to the immensely deep blacks, this display ducks and dives its way through the spectrum with professional aplomb, meaning that, for gaming, it's simply a peach. It's not just our beloved vidya games that get the best out of this monitor, however, as it's also got plenty of mitigation features to tackle text fringing, a common drawback of many, lesser, OLED displays.It's not a perfect solution, but as a result, text handling is much better than your average OLED, making this a productivity performer as well as a fantastic canvas to spread your favorite content across. It's also a dash brighter than you might expect out of an OLED panel, with a peak brightness rating of 1300 nits. That's only for a tiny 3% window, you understand, but the full-screen brightness is still a decent 250 nits, which puts it ahead of previous LG-panelled OLED monitors.This second-generation panel really is a crowd-pleaser, and the META microlens array technology works to create a properly beautiful image in practice. That 240 Hz refresh rate in tandem with a 0.03 ms response time means it's as speedy as you like, too, making for quite the ultrawide package overall.It is very pricey, though. That $1,299 MSRP means it'll be out of reach of many pockets, and for those looking for a fantastic OLED ultrawide that doesn't push their finances quite so hard, it's definitely worth checking out our best budget OLED ultrawide pick, the magnificentyet substantially cheaperAlienware 34 QD-OLED AW3423DWF.Still, if you can afford it, this is the OLED ultrawide to go for. It might cost a substantial amount, but in all our ultrawide testing so far, this is the one that truly stands ahead of the rest of the pack.Read our full Asus ROG Swift OLED PG34WCDM review.Best 32:9 OLED gaming monitorImage 1 of 5(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)Buy if... You want a truly outrageous display: With its 32:9 OLED panel, the Samsung Odyssey OLED G9 looks like it came straight off the set of a sci-fi film, and it has huge performance to match. You want proper HDR: HDR has always been a bit of a pain, but the HDR capabilities of this display actually feel like HDR performing in the way it was always meant to.Don't buy if... You don't want to spend too much: Ah, it's becoming a theme, isn't it? Still, it should come as no surprise that for this much display, you're looking at around $2,000 MSRP unless you find an exceptional deal You want great pixel density: The big Samsung certainly makes a great productivity display, but the pixel density isn't the best we've seen.Behold the Samsung Odyssey OLED G9 G93SC, all 49 inches of it. This is gigantic. Huge. Ma-hoosive. It's just about the most impressive thing you could have sitting on your desk, and it takes the prize for the best 32:9 OLED gaming monitor by virtue of... well, just look at it.What we've got here is an OLED monitor using the same Samsung QD-OLED panel tech that we've seen previously on other monitors, such as the Alienware 34 AW3423DWF and Philips Evnia 34M2C8600, but wider. At 32:9 aspect rather than 21:9, with the same pixel density but an extension along the X-axis to 5,120 pixels, it's a truly massive and all-encompassing display with a huge pixel canvas. This 240 Hz refresh rate monitor is also just as fast as other QD-OLED monitors and just as bright, too, hitting up to 250 nits.The G9 features DisplayPort, HDMI, and mini HDMI ports, plus a USB hub. The USB-C socket, however, is only for the hub and doesn't feature power delivery or display capabilities. Still, can't have everything, ey?What we can have is looks, and this thing looks fantastic. Its modern and minimalistic aesthetic would suit any desk you could reasonably fit it on (and trust us, you'll need a big one). It also feels very nicely put together. The panel enclosure's thin, too, which adds to that space age and futuristic feel, although if you want to take things even further into science fiction with a display that bends itself (yep), check out the LG OLED Flex 42 below.Gaming-wise, the G9 G93SC is very good indeed, with its contrast aided by the panel's staple glossy coating. Game images look consistently punchy all the time, unlike some LG panels, which can dip in brightness depending on the scene. With the G9, however, there's barely any visible automatic brightness limiting.This means great things outside of gaming, too, such as for productivity applications, as anyone who's suffered the brightness bouncing around on the desktop when you open and close browser windows on some other OLED monitors can tell you.Then there's its HDR. The G9 does HDR the way it was always meant to be, and the results are instantly stunning. With a 240 Hz refresh and 0.03 ms response, this monitor is silly quick, too. Downsides? Well, it's an OLED, so there's always the possibility of potential burn-in, and really, you do have to ask yourself if you want a monitor this exceptionally large.But still, the Samsung Odyssey OLED G9 G93SC is an absolute winner, and when it comes to the best big, 32:9 ultrawide, well, you're looking at it.Read our full Samsung Odyssey OLED G9 review.Best budget ultrawide OLED gaming monitorImage 1 of 7(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)Buy if... If you want a glossy monitor: Glossy coatings can be distractingly reflective, but the one used here is very well judged. If you don't want to overpay: All OLED monitors are expensive, but this is an extremely good display for a not-entirely-ludicrous price, and deals can often be found.Don't buy if... If you're on a tight budget: Yep, we know, this is a budget pick. Still, it's nowhere near what you'd call cheap, but that's the price you currently pay for a good OLED. You want great pixel density: While the Alienware's pixel density is good enough, it doesn't make for particularly great font rendering. Those using it primarily for productivity tasks may want to look elsewhere.Our previous pick for the best overall OLED gaming monitor and the best ultrawide OLED monitor, the Alienware QD-OLED AW3423DWF, still earns a place as the best budget ultrawide OLED gaming monitor. It's still fantastic and, importantly, often discounted.This big 34-inch curved display has a glossy coating that really makes the excellent colours and silly-deep contrast pop, unlike the Alienware 34 QD-OLED AW3423DW. It might sound like a small thing, but this deceptively simple tweak turns a fantastic OLED gaming monitor into a truly stupendous one for gaming.The refresh rate is a speedy 165 Hz, and like most other OLEDs, what really counts here is the sublime pixel response time, which is silly fast at 0.1 ms.The Samsung QD-OLED used here is a real stunner. Not only does it deliver fantastic overall performance, but it delivers much more consistent brightness performance with a 1,000 nits peak, although admittedly not over the full screen. Newer screens, such as the Asus ROG Swift OLED PG32UCDM, use moderately improved QD-OLED panels than the one used here, but it's really not a dealbreaker for us.Full-screen brightness has always been a bit of an Achilles' heel for OLED displays, but at least the Alienware has a better brightness limiter than most, and its lack of aggression compared to the competition means you can hardly notice it adjusting. That makes a big difference in day-to-day usage and serves as a real feather in the big Alienware's cap.Speaking of feathers in caps, let's talk about that curve. While curved displays are always going to split the room, the gentle 1800R curve in combination with the 3,440 by 1,440 resolution used here really makes for an immersive experience. Even if you're not a fan of bendy monitors, once you game on this one, we reckon you'll be impressed.There are always drawbacks, especially in OLED displays, and other than the already mentioned full-screen brightness issue, it is worth pointing out that the pixel density could be better for productivity tasks. While font rendering is not bad by any means, it's not the sharpest nor the crispest we've seen. The 4K OLED panels are better on this.All OLED monitors are quite expensive, unfortunately, but we've seen some good deals on the Alienware, and it's often a lot cheaper than competing panels in this guide. Nonetheless, if you're looking for the best OLED displays, you're going to have to open your pocketbook pretty wide. Still, at least here you're getting an OLED gaming monitor that really does deliver image quality and gaming performance that's worth the money.Yep, the Alienware 34 AW3423DWF takes our top spot as the best budget ultrawide OLED gaming monitor for a reason, and that reason is visual lushness, with far fewer compromises than most, for less than the competition. It's a centerpiece of a display, all wrapped up in a handsome package with a glossy coat that'll make your games simply sing.Read our full Alienware 34 AW3423DWF review.Best WOLED gaming monitorImage 1 of 7(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)Buy if... You want the ultimate in 4K OLED precision and sizzle: This is a clear if marginal step up over existing QD-OLED panels.Don't buy if... You're expecting value for money: It's super expensive and you don't even get a USB-C port for your $1,400.The reign of Samsung's 4K QD-OLED is over. For now. Enter the new king, the LG UltraGear 32GS95UE. This WOLED is quite simply better than the Samsung QD-OLED gang. That includes the likes of the Alienware 32 AW3225QF, Asus ROG Swift OLED PG32UCDM, and MSI MPG 321URX, plus Samsung's own Odyssey G8 OLED G80SD.On paper, the LG has little to no advantage. Whether it's the 32-inch size, 4K native resolution, 240 Hz refresh or 0.03 ms response times, it's all pretty much identical to the QD-OLED group.However, when you get into the details and also the actual experience, LG has gone that little bit better. For starters, LG's latest WOLED panel tech is just a touch brighter at 275 nits full screen compared to 250 nits. It also doesn't suffer from the overly warm color balance of QD-OLED panels. LG's WOLEDs also don't go grey in bright ambient light, detracting from perceived contrast. That's something that the 4K QD-OLED alternatives all do.OK, that's detailed stuff. There's no massive slam-dunk advantage. But then, these are megabucks displays. So the margins matter. Speaking of which, money is this LG's greatest problem. At $1,400, it's expensive even for a 32-inch 4K OLED model. You can get a version of the MSI mentioned above, just with a lower-speced USB-C interface, for as little as $900.Can this LG really be worth $500 more? That's a tough call. We've seen it briefly discounted to $1,200. But even at the original price, it's an absolutely stellar display. The HDR experience is the best we've ever seen, with eye-popping highlights and those classic inky, pitch-perfect black tones only OLED can achieve.Of course, this is a mega-quick monitor, too. The pixel response is beyond sensible reproach. Any more speed by that metric is probably redundant, it really is that quick. Add in the 240 Hz refresh for nice, low latency, and it's a very strong package.What's more, you also get an alternative 1080p mode. It's meant to be a sort of alternative native mode that uses pixel doubling to achieve the lower resolution and combines that with a 480 Hz refresh. Admittedly, you'd never mistake the slightly blurry image quality for native when enabled. But it's probably better than traditional interpolation, and the 480 Hz makes for even lower latency.If you're looking for issues, well, one possible snag is the matte panel coating. Glossy has been the go-to for OLED panels because it accentuates contrast. But somehow, LG gets away with a matte coating on this monitor. It still absolutely sizzles. In fact, it's not just HDR content that zings. Thanks to strong full-screen brightness and deft SDR calibration, pretty much everything looks great.Even better, LG has calibrated the SDR color balance in HDR mode nicely enough that you can run this panel in HDR mode 24/7. Short of proper pro-quality content creation workflows, there's no need to jump between SDR and HDR. Meanwhile, the 4K pixel density means that fonts look fab whatever you're doing. That's not something that lower-res OLEDs can claim.All of this means this is comfortably our new favourite OLED monitor with one obvious qualifier, the price. If you can easily afford it, this is the obvious pick. But the much cheaper MSI is clearly better value and still a fantastic screen.Read our full LG UltraGear 32GS95UE review.Best 27-inch OLED gaming monitorImage 1 of 5(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)(Image credit: Future)Buy if... You have eyes like a hawk: The pixel density on this monitor is immense, so if you're looking for incredibly sharp visuals, look no further.Don't buy if... You want the most immersive experience: It might have stellar pixel density, but a 27-inch monitor won't be as immersive as a bigger one, such as a 32-incher.The best 27-inch OLED gaming monitor is the Alienware 27 AW2725Q, and that's primarily because it's cheaper than its competitors and offers pretty much the same experience. That experience is one of incredibly sharp visuals thanks to cramming a 4K resolution's worth of pixels into a 27-inch display.The whole 27-inch 4K OLED thing is very new and is all thanks to Samsung's new 4th Gen OLED panels. While these new panels are brighter than previous generations pound for pound, sizing them down to 27 inches keeps it to the usual 250 full-screen nits.With this monitor, you're also getting a glossy screen, a wonderful HDR experience, and all the usual benefits of OLEDsfast response time, deep blacks, and sharp images. Plus the 240 Hz refresh rate, of course.The main benefit of this monitor compared to other OLEDs, though, is its sheer pixel density, although you'll need sharp eyes to really notice the difference between this and, say, a more standard 32-inch 4K OLED. But if you do have such sharp eyes and want the sharpest monitor to match, this is it.I suppose, too, that if the now very minor text fringing issues on larger OLEDs still bother you, you can be sure the pixel density of this AW2725Q resolves that issue, too.The MSI MPG 272URX is another 27-inch 4K OLED option, but it's a fair chunk more expensive, and all you really get for the extra money is USB-C input with power delivery. You get true 240 Hz at 4K with the MSI, too, thanks to DisplayPort 2.1 ports, but you can get that with this Alienware with the help of Display Stream Compression (DSC) on its DisplayPort 1.4 ports. This barely adds any latency and is visually lossless, anyway.So yes, the Alienware is actually better value than the MSI, unless you need USB-C input. Its 'interstellar indigo' colouring on the stand and rear of the screen (dark blue with some flecking) is a rather nice departure from Alienware's usual aesthetic, too.While many people will prefer the immersiveness of a bigger 32-inch OLED to the pixel density of the Alienware 27 AW2725Q, if you want things as sharp as possible or perhaps just lack screen space, this Alienware is where it's at. It's certainly the best value 27-inch OLED on the market right now.Read our full Alienware 27 AW2725Q QD-OLED review.Also testedMSI MPG321URX QD-OLEDThis one almost made the list, and in fact, we'd certainly recommend it instead of our top pick if you can pick it up for significantly cheaper. However, one thing that keeps this MSI option off the list is its lack of ABL toggle, which can be useful to toggle off sometimes with QD-OLED panels in SDR mode.PC Gamer score: 92%Read our full MSI MPG321URX QD-OLED review. data-widget-type=deal data-render-type=editorial class=hawk-base>(Image credit: Future)Like everything else we test, we live with a gaming monitor in the same way you would at home. We make sure to use it for day-to-day monitor-y tasks on your Windows desktopbecause your PC likely isn't just for gamingand we, of course, test it while gaming too, because we're all comprehensive like that.The Windows desktop will highlight any failings in factory calibration, and show up any issues with font scaling, too. Fonts can be a particular problem with OLED panels thanks to typically not using standard RGB subpixels. The Windows desktop is also a good way to test problems with OLED full-screen brightness and auto brightness limiting (ABL) functions.As for gaming, using fast-paced shooters is a great way to test out the response of a given gaming monitor, and then the neon-dripping world of Cyberpunk 2077 makes for an excellent HDR tester.We also go through a series of experiential tests to highlight any response and latency issues. We find it too easy to get lost in the weeds of specific panel benchmarks and miss more obvious problems that might crop up during day-to-day gaming use. So, we put more weight on what it's like to actually use a gaming monitor on a daily basis than what the specs might say.In the US:Amazon - Regular discounts on high refresh rate gaming monitorsWalmart - Save on quick gaming monitors B&H Photo - Gaming monitors for as little as $100Best Buy - Gaming monitors going for lessTarget - LG, Acer and Asus gaming monitors on saleStaples - Regular sales on selected HP gaming monitorsNewegg - Lots of cheap gaming monitors to choose fromDell - Money off Alienware gaming monitorsIn the UK:Amazon - Save on big-name monitor brandsOverclockers - 1440p LG gaming monitors from 190Scan - AMD FreeSync monitors from as low as 100CCL - Regular deals on some of the best screens aroundFirst, let's clarify one thing. Mini-LED monitors are LCD monitors with mini-LED backlights. So, they don't compare to OLED with it comes to per-pixel lighting control and speed. OLED technology is massively faster in terms of pixel response and, currently, the only option for true per-pixel lighting and that means proper HDR performance, with sizzling, pin-point highlights combined with perfect, inky black levels.That said, LCD still has the edge for latency thanks to offering refresh rates up to and beyond 500 Hz, while OLED currently tops out at 240 Hz. However, super-high refresh rates really only deliver a benefit in an ultra-competitive online shooter context. For everything else, OLED's refresh rate is more than enough.LCD's final advantage is pixel density. 4K 32-inch OLED monitors are imminent, but right now OLED monitors offer relatively low pixel density. For gaming, that's probably fine. But for general-purpose computing, for things like crisp fonts and lots of desktop space, existing OLED monitors are a little compromised. But overall, OLED clearly gives the better gaming experience.Currently, all OLED gaming monitors are based on either LG or Samsung panels. They both share basic OLED attributes including incredible speed and per-pixel lighting. But they also differ in a few important aspects.First is the subpixel structure. LG's WOLED panels have white, red, green and blue vertical subpixels in that order. Samsung's subpixels are arranged in a triangle, with the red and blue subpixels above the green subpixel and no white subpixel. For gaming, subpixel structure arguably doesn't matter. But it does in Windows, especially for rendering fonts.Next up, Samsung's QD-OLED panels tend to offer better full-screen brightness, typically hitting about 250 nits. LG panels tend to be nearer 150 nits. That's a very noticeable difference.One other possible difference when it comes to LG versus Samsung panels is burn-in or image retention. Some early testing has suggested that Samsung's QD-OLED panels may be more prone to burn-in than LG panels. But that has yet to be conclusively established.More to the point, OLED technology is new enough in PC monitors that the true long-term durability has yet to be determined. All of the OLED monitors we have reviewed come with at least a three-year warranty, including burn-in cover. So, you needn't have any immediate concerns. What's harder to say is if you can reasonably expect an OLED monitor to resist any kind of burn-in for five years or more.Most games are optimised for a widescreen format at a 16:9 aspect ratio. That applies to TV content and video content, though feature films tend to be wider still. So, that's 1080p, 1440p and 4K. All three are 16:9 aspect.21:9 aspect ultra-wide panels are also popular, just bear in mind that most first-person shooters tend to just stretch the existing image over the wider aspect rather than extending the field of view (FoV). That's especially true of competitive online shooters, where a wider FoV would make for an unfair advantage. And the very far-out option, if you have a little extra cash to blow, is the extra-ultra-wide aspect ratio of 32:9. That can make for incredibly immersive gaming. But it also stretches the limits of ergonomics, both physical and in terms of things like game UI and menus. For most gamers, most of the time 16:9 and 21:9 are the best choices.Refresh Rate (Hz)The speed at which the screen refreshes. For example, 144Hz means the display refreshes 144 times a second. The higher the number, the smoother the screen will appear when you play games.V-SyncGraphics tech synchronizes a game's framerate with your monitor's refresh rate to help prevent screen tearing by syncing your GPU frame rate to the display's maximum refresh rate. Turn V-Sync on in your games for a smoother experience, but you'll lose information, so turn it off for fast-paced shooters (and live with the tearing). Useful if you have an older model display that can't keep up with a new GPU.G-SyncNvidia's frame synching tech that works with Nvidia GPUs. It basically allows the monitor to sync up with the GPU. It does this by showing a new frame as soon as the GPU has one ready.FreeSyncAMD's take on frame synching uses a similar technique as G-Sync, with the biggest difference being that it uses DisplayPort's Adaptive-Sync technology which doesn't cost monitor manufacturers anything.GhostingWhen movement on your display leaves behind a trail of pixels when watching a movie or playing a game, this is often a result of a monitor having slow response times.Response TimeThe amount of time it takes a pixel to transition to a new color and back. Often referenced as G2G or Grey-to-Grey. Slow response times can lead to ghosting. A suitable range for a gaming monitor is between 1-4 milliseconds.TN PanelsTwisted-nematic is the most common (and cheapest) gaming panel. TN panels tend to have poorer viewing angles and color reproduction but have higher refresh rates and response times.IPSIn-plane switching panels offer the best contrast and color despite having weaker blacks. IPS panels also tend to be more expensive and have higher response times. VAVertical Alignment panels provide good viewing angles and have better contrast than even IPS but are still slower than TN panels. They are often a compromise between a TN and IPS panel.Curved PanelsCurved panels can make games feel more immersive and the amount of curvature is given by a number such as 1500R or 1800R. The smaller the number, the more tightly curved the screen will be.HDRHigh Dynamic Range. HDR provides a wider color range than normal SDR panels and offers increased brightness. The result is more vivid colors, deeper blacks, and a brighter picture.Peak BrightnessThis refers to the maximum brightness of a monitor or television and is measured in nits. For decent HDR gaming, you want more than 400 nits, ideally near the 1000 mark.UltrawideShorthand for monitors with aspect wider aspect ratios like 32:9 or 21:9ResolutionThe number of pixels that make up a monitor's display, indicated by height and width. For example: 1920 x 1080 (aka 1080p), 2560 x 1440 (2K or 1440p), and 3840 x 2160 (4K). If youve been on the lookout for a new TV, you have probably heard of OLED screens.OLED, or Organic Light Emitting Diode, screens are a newer technology that offers improved image clarity and color accuracy, low input lags, and better refresh rates for TVs.While originally manufactured by LG, other companies have started to adopt OLEDs to make their product more suitable to a host of different applications.But are OLED TVs the right choice for gaming?Heres What You Need to Know About OLED TVs and Gaming.OLED TVs deliver clearer image quality and better response times than LED TVs, which improves the gaming experience. Be aware that OLEDs have a high risk of burn-in, so be sure not to leave a static image onscreen for too long. How Much Input Lag Do OLED TVs Have?OLED TVs have input lags that range from 5.8 ms with 1080p resolution and the variable refresh rate feature, all the way up to 133.6 ms at 4k resolution at 60 Hz with Interpolation.With 4k resolution and Variable Refresh Rate, you can get input lag as low as 13.8 ms. What Are The Refresh Rates On These Models?The refresh rates of OLED TVs are set at 60 Hz or 120 Hz. Some OLED TVs feature a Variable Refresh Rate.What is Variable Refresh Rate?Variable Refresh Rate is a feature found in many gaming monitors and TVs that accurately and smoothly displays the rate of frame updates per second.This feature is essential for gamers because, unlike movies, video game frames are made on the spot as you input commands.Variable Refresh Rates reduce screen tearing during movement. It helps the screen keep up with your game, so you get the clearest image quality possible.Do OLED TVs Have a Game Mode?You can find Game Mode on many OLED TVs on the market. Game Mode is a feature on TVs that improves the input lag in exchange for lower image quality.It diverts resources from graphics so that your TV gets near-instantaneous responses to keystrokes.Can All OLED TVs Be Used As Computer Monitors?You wont encounter many issues using an OLED TV as a computer monitor.But note that OLED TVs are prone to burn-in when you leave an image on the screen for a prolonged time.That means, if you use an OLED TV for applications that have static displays such as word processing or spreadsheets, you may end up burning in the display.But when used for multimedia applications, such as video editing, you can take advantage of the sharp images that OLED screens are known for.Do take note, as well, that inputs from keyboards, mice, or graphic tablets are prone to input lag, so while OLED TVs already have a low input lag, but you can always switch to Game Mode to address this issue.What About OLED PlayStation and Xbox Compatibility?You will not have any issues using OLED TVs with your PlayStation or Xbox.OLED TVs are part of the higher-tier price range of TVs, which give them low input lags and a standard Game Mode.If you want an OLED TV for gaming, you get a more enjoyable experience if you get an OLED TV with a Variable Refresh Rate.Do People Generally Use OLED TVs For Gaming?OLED TVs are not the most popular for gaming, considering that the market is still dominated by LED TVs, and LED TVs are more affordable.But that does not mean you should not use OLEDs for gaming!If you can afford an OLED TV when you upgrade your current TV, you should consider it because of their excellent picture quality.How Good Is the Image Quality and Resolution?OLED TVs have excellent image quality and resolutions, as they come with 4k resolution.OLEDs get their color and brightness through individual LED pixels, which set them apart from the rest.Unlike LEDs, which use backlights that dim or turn off as a whole, OLEDs can dim or turn off individual LEDs.This difference lets OLED produce deeper blacks when compared to LEDs.That is why OLEDs can produce sharper images, regardless of lighting conditions.OLEDs also generally have wider viewing angles, meaning you can have a group sitting in wider arrangements and still have a clear picture.Can Video Games Ruin OLED TVs?Video games cannot ruin OLED TV themselves, but that does not mean OLEDs are fool-proof.Unlike the old CRT TVs, which could be ruined by excessive video gameplay, modern TVs, whether OLED or LED, will work fine with video games.However, OLED TVs are prone to burn-in, or the permanent image retention of individual pixels on the screen. The longer you leave an image on a screen, the more you risk it to burn-in.If you leave the home screen of a video game on display for a long time, theres a good chance that it will become embedded in the pixels.That is why you must be sure to never leave a static image on an OLED screen for too long.Are OLED TVs Durable?For the most part, an OLED TV can last you years of regular use.Some manufacturers even boast of their OLED TVs lasting over 100,000 hours of regular usage.As long as you dont expose the OLED to burn-in risks, it will last you quite a while.What Are the Advantages and Disadvantages of OLED TVs for Gaming?There are several advantages to using OLED displays for gaming.You get better refresh rates and lower response time.You also get remarkable picture quality and a TV that can handle different room lighting.Since OLED TVs do not have backlighting, they are more efficient when it comes to power consumption.OLEDs also have wider viewing angles, which are great when playing multiplayer games.However, OLED TVs have the following weak points:Prone to burn-inCosts more than LED TVsThat said, OLED TVs are worth it if you want high-quality images and compatibility with HDR and HDMI 2.1.What Are the Qualities of a Good TV for Gaming?If you are looking for a TV for gaming, the most important feature you should look for is the low input lag.Input lag is the time it takes for an action to be reflected on the screen after you press a button.If you are playing a video game and press left, the time it takes for the movement to be done on screen is the input lag.Ideally, you should find a TV with an input lag of 30 ms and below.Another feature you should look out for is Variable Refresh Rate. While not all TVs have Variable Refresh Rates, you will probably want a TV that has a refresh rate of at least 120 Hz.What Are the Best OLED TVs for Gaming?If you are looking for possible options for OLED TVs for gaming, here are some recommended models.LG CXThe LG CX is a crowd favorite, as it comes with a good price tag and great features.The LG CX has one of the lowest input lags among the OLED TVs on the market, even when you set it at 4k resolution with Variable Refresh Rate kicked in.The CX can also upscale lower-resolution quite decently. That means being able to play older gaming consoles without much clarity issues.If you plan to use this TV for PC games, the CX supports FreeSync, which makes gaming smoother.On the downside, while the CX can handle different lighting conditions, it still has occasional glare issues that may be resolved with a few adjustments in the room lighting.Sony A8HThe Sony A8H is another option for an OLED TV.As LG is the only maker of OLED panels, the A8H uses the same panels as the LG CX to deliver a high-quality image.Aesthetics-wise, the A8H has thin bezels that almost look non-existent. This design helps the pictures stand out in your room.The A8H also features near-instantaneous response time.Unfortunately, while good for gaming, this TV falls short for its lack of a Variable Refresh Rate.But all things considered, the A8H is a worthy option, especially if the CX is not available.Vizio OLEDThe Vizio OLED is the companys entry into the OLED TV arena, but at a more affordable price point than the other models listed.The Vizio OLED is the cheapest of the three TVs listed in this article, which gives it an advantage, as OLED TVs can cost more than the LED TVs on the market today.Now, like any other OLED TV, the Vizio OLED performs well with games, with its low input lag and almost instantaneous response time.The deep blacks and infinite contrast ratio are also comparable to the LG and Sony.When it comes to its weaknesses, the first you will notice is its Variable Refresh Rate support. As of writing, the full support has not been rolled out yet, so there might be a few image inconsistencies while firmware gets updated.HDR gaming is not an issue either, but its peak brightness could still be improved.Final ThoughtsOLED TVs are changing the way people watch TV.While the price might still be too high for many consumers, it will only be a matter of time before it becomes more affordable, just as LED TVs have become less pricey as they become more common. Sources:OLED-TVs: Advantages and Disadvantages of TechnologyWhat is OLED? Black levels, burn-in, and contrast ratios explainedShould You Replace Your Desktop Monitor with An OLED TV? Was this article helpful? Did you find wrong information or was something missing? We would love to hear your thoughts! (PS: We read ALL feedback) OLED monitors offer true blacks and stunning contrast for an immersive viewing experience unmatched by traditional panels. Lightning-fast pixel response times on OLED monitors eliminate ghosting and blurring during fast-paced action in games. New OLED monitors are brighter than ever, with improved peak brightness and HDR performance, closing the gap on LCD displays. OLED monitors are shaking up the gaming display scene thanks to their superior image quality and responsiveness compared to traditional TN, VA, and IPS panels. But with concerns about burn-in and cost, is the switch to an OLED monitor worth it for your gaming setup? Here are our top five reasons why you should consider buying an OLED monitor when upgrading or buying a new gaming monitor in 2024. Related OLED Monitors are redefining the limits of what Is possible in terms of visual fidelity. Here are some of our best picks you can buy right now! 1. True Blacks and Stunning Contrast The allure of OLED lies in its deep black levels and infinite contrast ratio. OLED monitors can individually turn off each pixel when displaying dark scenes, resulting in true blacks. LCDs, however, use a backlight that remains on when displaying pitch-black scenes, allowing some light to bleed through the panel, resulting in a grayish cast in black scenes. That's why your monitor often looks more gray than black when showing dark scenes in movies and games. With no backlight, OLED monitors can get really dark, creating an inky depth and unparalleled contrast. Vibrant colors and highlights just pop off the screen when gaming or watching movies, resulting in a mesmerizing and immersive viewing experience. The colors also remain accurate and consistent from each angle, making OLEDs great for local co-op gaming with friends. Even the best mini-LED monitors can't compare to OLEDs when it comes to black levels, contrast, and viewing angles. Related Both QLED and OLED displays bring something unique to the table, but which one can you count on for the long term? OLED's instantaneous response time automatically gives them a competitive edge over LCDs. Unlike IPS gaming monitors, which typically have a 1 ms response time (often with overdrive), the best OLED monitors, like the Acer Predator X27U, boast a lightning-fast 0.01 ms response time. This virtually eliminates ghosting and blurring during fast-paced action, leading to exceptional motion clarity. For games like Apex Legends and Call of Duty, where every second matters, an OLED monitor can make all the difference. One of the major limitations of OLED displays has been their inherently lower brightness compared to mini-LED or even standard LCDs. While OLEDs still can't match the peak brightness of the top mini-LED monitors, newer OLED displays offer significantly brighter panels compared to earlier models. The Asus ROG Swift PG34WCDM, based on a 2nd-Gen WOLED panel, boasts a brightness of 275 nits in normal SDR mode, a huge improvement over 1st-Gen WOLED panels, which struggled to reach even 200 nits. While 275 nits may seem lower compared to LCDs, it's more than enough for close-up desktop use. The biggest advantage is that newer OLEDs can achieve peak brightness of up to 1,300 nits when displaying HDR content, making colors and highlights pop just like on the best mini-LED displays. To be fair, this peak brightness is only achieved in small areas of the screen, typically around 1-5%. Since only highlights and small parts of an image need to be brighter in HDR, newer OLEDs still deliver an exceptional HDR experience. New 3rd-Gen WOLEDs and QD-OLED monitors set to be released in 2024 are expected to be even brighter, slowly closing the gap on LCDs. Related Lots of lighting is great for most activities, but gaming isn't one of them. These monitors show off stunning gaming displays even in bright rooms. Not long ago, users had to shell out a staggering $4000 for the first OLED monitor, the ASUS PQ22U. With its ludicrous price and smaller 21.6-inch display, it predictably never saw the light of day. The Alienware AW3423DW, with its focus on gaming features, brought OLED monitors closer to the mainstream at $1299. However, the cost remained a hard pill to swallow for most gamers, and its ultrawide aspect ratio limited its appeal for many. Fortunately, the landscape has shifted dramatically. Gamers now have more options than ever, with more major players like LG, Samsung, and MSI entering the OLED monitor race. Budget-conscious manufacturers have been key to bringing OLED monitors to the masses. The Agon PRO AG276QZD by AOC is available for $700, and it often goes on sale for less than $600. For the same price, you've also got the KTC 27-inch OLED 1440p Monitor, which earned Game Rant's best-budget OLED monitor award. Both are incredible OLED monitors with a fast 240Hz refresh rate and 1440p resolution, hitting the sweet spot for competitive gaming. The KTC even adds USB-C connectivity for Mac and office users. If you're willing to spend a little bit more, you'll find high-end OLED displays from A-list brands like the Alienware AW2725DF and ASUS ROG Swift PG27AQDM, which retail for $900 and often go on sale for less than $800. Burn-in, or permanent image retention, has been the biggest concern for OLED monitors, but it's now significantly less of a concern. Most newer OLED displays have built-in measures to prevent burn-in, and you'll still need to meet specific conditions for it to occur, like leaving static elements like logos and taskbars on the screen for an abnormally long time and typically at higher brightness levels. With normal mixed usage for gaming, work, and watching movies, you likely won't encounter burn-in. In addition, most brands, including MSI, ASUS, and GIGABYTE, offer up to a three-year warranty on burn-in for added peace of mind. 2024 is shaping up to be the best year yet to upgrade to an OLED monitor. In addition to the excellent options already available, most monitor brands have announced lineups for new WOLED and QD-OLED monitors set to be released later this year. Among the upcoming OLED monitors to be excited about are the LG 32GS95UE, the Asus PG32UCDP, and the Asrock Phantom Gaming PG032UFS2B. These are 32-inch, 4K OLED displays with a first-ever dual-mode refresh rate feature that will let you switch between 4K at 240Hz and 1080p at 480Hz. If you're looking to buy an OLED now, here are the top options we recommend. The LG 32GS95UE is an incredible 32-inch OLED gaming monitor for both open-world RPGs and FPS gaming. It's brighter than earlier OLED monitors and supports the new dual-mode features that let you choose between a detailed and immersive 4K at 240Hz mode ideal for RPGs like Cyberpunk 2077 and a responsive 1080p at 480Hz mode ideal for competitive shooters like Apex Legends. The AOC Agon Pro AG276QZD is an entry-level OLED monitor with a 1440p, 240Hz display. It's incredible for PC gaming, delivers outstanding HDR performance, and unlike 4K displays, you don't need a top-of-the-line PC to benefit from the high 240Hz refresh rate, making it great for both hardcore and casual gamers. For ultrawide enthusiasts, the Samsung Odyssey OLED G9 is an excellent option, though it demands plenty of desk space. With its 240Hz refresh rate, insanely fast 0.03ms response time, and immersive curved display, it's ideal for competitive FPS gaming and sim-racing. More Whether users want a TV for gaming or watching sports, there is an excellent OLED TV out there for everyone. FAQ Q: Will there be more QD-OLED monitors? During CES 2024 and Computex 2024, most monitor brands like Samsung and MSI announced new QD-OLED monitors to hit the market in 2024. Q: Are OLED monitors good for color accuracy? Yes, OLED monitors have outstanding color accuracy as well as excellent viewing angles, meaning the colors remain consistent and accurate even when viewed at an angle. Logically, we have to contrast OLED technology with its rivals to know which is the best option. This is where the IPS, TN or VA panels appear, which are the most used in gaming. OLED panels are known for their pure blacks, but the notorious burnout weighs against them.OLED panelsFirst of all, it would be nice to know what OLED panels are or how they work. The acronym OLED is broken down as Organic Light-Emitting Diode , which comes to be organic LEDs. These panels differ from the rest in that each pixel has an LED that lights up independently , no matter what color it is.In an ordinary LED panel, we have an array of LED lights that light up white. Here is the explanation of an OLED panel producing pure black: if the LED has to reproduce the color black, it does not light up. However, the LEDs that have to reproduce, for example, the yellow color will light up.These panels have been loaded with a slab called burned since their launch. Apparently, the permanent graphic elements (logo of television channels, HUD in video games, messages, banners, etc.) are not friends of these panels . In the beginning, if we played a video game for hours, the HUD (life, the bullets we have left, the radar, etc.) would be impregnated on the screen. In this way, we put the TV on and we kept seeing a small trace of that HUD, staying permanently. LG, the manufacturer that developed this technology from scratch, was heavily criticized for it.That said, OLED panels have been getting better . It is more difficult to burn a panel of this type with a use like the one we have discussed. The same televisions incorporate refreshment technologies to prevent these anomalies. For this reason, the option to buy OLED gaming monitors arises.The crux of the matter lies in the useful life of the OLED panel : they last less because it uses organic materials. Obviously, they have a long service life, but this is less than that of their rivals. Although there are many factors that come into play, the lifespan of an OLED panel is usually between 10-20 years .In conclusion, they are the panels that offer the best image quality and consume the least.What you need an OLED gaming monitorGaming is a very specific sector that requires certain features on the monitors. By boat soon, features such as refresh rate or frequency, response time, G-Sync or AMD FreeSync come to mind.Refresh rateThe first thing users value is the refresh rate. This is measured in hertz (Hertz in English, expressed in Hz) and consists of measuring the times the screen is updated in the same second. Understand that the image we see on a screen is not fixed, but is always blinking, but at a speed so fast that the human eye does not detect it. A good refresh rate would be from 144 Hz , being able to see monitors that have more than 240 Hz. In conclusion, an OLED gaming monitor with 144 Hz is a great start.Response timeSecond, we have the response time. The response time is expressed in ms (milliseconds) and its purpose is to measure how fast a pixel changes from white to black and vice versa. When we play it is very important to have a response time of 1 ms so as not to see trails that impoverish the gaming experience. Generic monitors come with a 5ms response time, causing trails on enemies that appear around the corner, etc. Therefore, with 1 ms or less we are great .G-Sync and FreeSyncAnother important

feature, the G-Sync or AMD FreeSync technologies are key to initiating a high-level gaming experience . Both technologies emerge to eliminate stuttering, flickering and tearing problems. We could summarize these 3 visual phenomena in the following:Stuttering . It is a spontaneous drop in FPS because we cannot play the game at certain FPS. It is a phenomenon that occurs due to various factors: low RAM or VRAM memory, overheating, low CPU power, bottleneck or outdated drivers.Flickering . It consists of a change of light that occurs in screens with LED backlighting. Monitors with a lot of hertz do not usually have this problem. Flickering becomes a problem when it affects our health, generating eye fatigue or headaches.Tearing . We can define tearing as a graphic distortion that we see on the screen, causing an asymmetry in the projection of the image (horizontal cut effect). It occurs because the graphics card cannot keep the FPS in sync with the monitors Hertz. To alleviate this anomaly, FreeSync and G-Sync or options such as activating vertical synchronization in video games or Triple buffering arise.OLED monitors often incorporate NVIDIAs G-Sync technology. This allows you to synchronize the FPS that the GPU can generate with the monitors Hertz. In this way, we avoid tearing and stuttering. What is the problem with G-Sync technology? Its high price , making the monitor quite expensive. The latest OLED panels are incorporating G-Sync technologyPros of OLED gaming monitorsWe found several very positive aspects in monitors that incorporate this technology. Pay attention to all the pros because they are worth taking into account.Superlative image qualityWhen it comes to the image quality of OLEDs, it is almost impossible to find something quite like it. They are the only panels on the market that offer us pure blacks, a very good contrast and a brutal color fidelity.Without a doubt, it is the best image quality on the market.Many inches and resolutionOLED gaming monitors offer us solutions for all needs: from less to more inches. We can find quite large formats that cover more demanding needs, something that does not happen in the other panels.On the other hand, the resolution of an OLED panel is 4K , which offers a round future option. Not only that, there are also options that support 8K resolution.Reduced consumptionConsumption is an aspect to take into account because we are going to have the monitor on for a long time. Fortunately, OLED panels are really efficient because they do not require backlighting or backlighting .In this way, they are more efficient monitors than IPS, VA or TN, generally.Much thinner panelsThe dimensions of the monitors is a point to value in every desk: we want them to occupy the least possible space. In this sense, OLED panels are very thin . It is not only a positive point in terms of size reduction, but also aesthetically.With an OLED gaming monitor, your setup will look luxurious.Very low response timeWithout a doubt, it is a point in its favor. The gaming experience demands that the panel have a low response time, preferably 1 ms or 0.5 ms. OLED technology makes it possible to offer a response time of up to 0.01 ms , which is great.High refresh rateGenerally speaking, we will not have problems with the refresh rate of the OLED gaming monitors. They tend to have a very high refresh rate, typically 120 Hz or 144 Hz . So this is great for playing video games on an OLED TV or monitor.Variable refresh rate technologies availableFor many users it is a specification that cannot be missing from their gaming monitor, which you will not miss here. For example, LG OLED TVs are compatible with NVIDIA G-Sync technology so that users can enjoy their video games to the fullest.HDR with better performanceHDR (High Dynamic Range) is a feature that is increasingly appreciated. In this case, the pure blacks help the panel deliver spectacular HDR. Normally, OLED TVs incorporate HDR Dolby Vision technology , which is one of the best on the market.FALD or EDGE LED panels dont take advantage of HDR in the same way.Wide viewing anglesAlthough not the best viewing angles on the market, we do have a margin without image degradation of up to 84 degrees . Considering the different positions that a monitor can take, it is a positive fact.Cons of OLED gaming monitorsWe are here to find out if an OLED gaming monitor is worth investing in, so there are several vital points to analyze. Lets see what open fronts these panels have.Sample and Hold or persistenceThis is a very specific issue that causes FPS to stay flat until the panel refresh rate updates the image. It is a phenomenon related to the response time of the panel, but it does not matter if we lower it to 0: it will continue to occur.In fact, it gives us the feeling of blur in motion, especially when the screen is low hertz. There are 2 solutions for it:Force continuous scanning (Rolling Scan) . It is a technique that synchronizes the panel scan with that of the cable (HDMI or DisplayPort). On the other hand, LG has offered the solution of introducing black insert frames between updates. However, this means improving the brightness of the panel, and OLED panels are not characterized by having many cd / m (a measure of brightness).More Hertz. It is the solution that is working the best.Little supply of OLED gaming monitorsPerhaps, it is one of the biggest cons we found. If we go to the gaming monitor market, we dont see many OLED gaming monitors . IPS, TN or VA panels are less expensive to produce, which means they are cheaper.And it is that the monitor market has a specific target audience, so the television market does not serve us as a base. Here, the needs are different and specific benefits are sought.Its easy to find IPS, TN, or VA monitors loaded with attractive technical specifications at an affordable price. From the outset, OLED panels are not that accessible, so there is not much offer.PriceIn my opinion, it is a very big drag on its commercialization in the monitor sector. OLED panels are expensive and delicate , something that causes some rejection to many potential buyers. In the end, in equal inches, the user opts for a TN, an IPS or a VA.By this we do not mean that these 3 options are better; in fact, the image quality offered by OLED is unmatched. Its price skyrockets due to production costs.Shorter shelf lifeWe must add to the above the fact that OLED gaming monitors have a lower useful life than their rivals. If the investment is already high up front, this makes things even more difficult. Its useful life is not short, but it does not match that of the competition.This shorter useful life is caused by the organic materials that these monitors incorporate. Being organic, they are perishable. To give you an idea of its useful life, its average life time is 14,000 hours .We have allowed ourselves the luxury of doing a rough estimate of how long an OLED gaming monitor would last. If we had it on for 8 hours, 365 days a year, we would consume 2,920 hours of screen in 1 year. In 5 years we would have reached its useful life (2,920 x 5 = 14,600 hours). Obviously, it is a high calculation because we are not going to spend 8 hours every day in front of the monitor.In this lower shelf life, blue color degradation also enters. This means that the materials used to project the blue color degrade faster than the other colors.OLED gaming panels have low maximum brightnessCompared to its rivals, it offers less candela per square meter . This can be a major disadvantage in vivid images that require a certain brightness. In this regard, Samsungs QLEDs offer a much higher brightness, but lower contrast than OLEDs.At the end of the day, it is a war of pros and cons.The risk of burnsMany users have reported about burning on OLED panels from 2019 . This keeps us on our toes, especially when we are evaluating whether an OLED gaming monitor is worth buying.Before, we have said that the HUDs or permanent graphic elements are not friends of these panels, even though they incorporate new refresh technologies. There is a risk of buying a bad unit that gives problems of this type, although it is no longer normal.Are gaming OLED monitors worth it?An OLED gaming monitor will be worth it if you are looking for the best image quality, but taking into account its weaknesses. It is difficult to find gaming OLED monitors on the market because these panels are often too large for the typical desktop.On paper, they can deliver ideal gaming performance. Of course, the video game HUD can be a problem for possible burnouts or retentions. It all depends on the needs of each one. Searching for the best gaming televisions will give you a ton of results, but it's easier to narrow down your options once you know what features to look for. Manufacturers have been trying to improve their TV gaming performance to compete with monitors in recent years. When evaluating how good a TV is for gaming, there are certain criteria to consider.A TV's refresh rate is one of the most important factors since it's inherently tied to frame rate; if you want to game in 120 fps, you need a TV that supports a 120Hz refresh rate. A high refresh rate also goes hand-in-hand with VRR, as VRR lets the TV dynamically adjust its refresh rate to match the game's frame rate, minimizing, if not eliminating, any screen tearing that can result from the game's frame rate not matching the TV's refresh rate. Input lag is the time it takes for your controller inputs to register on screen, so it's one of the most important aspects for competitive gamers. Input lag is often confused with response time, but they're different. Response time is the time it takes for a pixel to change from one color to the next. TVs with a slow response time leave blurry trails behind fast motion, while TVs with fast response times deliver clear motion. OLEDs are the uncontested best TVs regarding response time, as their pixel transitions are nearly instantaneous.The overall picture quality is also very important for playing games. You want a TV that's bright enough to play games in a room with the lights on and not be distracted by reflections on your screen. Since many games are available in HDR, you also want a TV that displays a wide range of colors and has the contrast needed to provide deep enough blacks that highlights stand out against dark backgrounds. Through our rigorous testing procedure, we can determine if a TV's picture quality dips while using Game Mode and which TVs simultaneously provide excellent performance and image quality.Below are our recommendations for the best overall gaming TVs you can buy. Also, check our picks for the best 120Hz TVs, thebest PS5 TVs, and thebest TVs for Xbox Series X, or you canvote on which ones you want us to buy and test. To learn about all of the 2025 models, check out our 2025 TV lineup page. If you want the best of the best with almost no compromises, the best gaming TV weve tested overall is the Samsung S95F OLED. Since it uses a QD-OLED panel, you get incredibly bright and vibrant colors that can't be matched by traditional WOLED displays. On top of that, highlights in HDR really pop out, so HDR games are incredibly immersive. A lot of OLED models don't fare well in bright rooms, but this TV is the only OLED on the market that features a matte screen coating. Reflections are almost invisible on this TV, so overhead lights and even direct light sources facing the screen are a non-issue. Like any OLED, you get unrivaled black levels, so blacks are deep and inky in a dark room. However, like all QD-OLEDs, blacks are raised and look a bit purple in a bright room. It even has a very wide viewing angle, so its image quality holds when viewed from an angle, making it a great choice for large living rooms.The TV is also equipped with a ton of modern gaming features like four HDMI 2.1 ports, 4k @ 165Hz, and VRR, making it a great option for pairing with modern consoles and gaming PCs. It also has nearly instant pixel transitions, so motion is crisp and clear. In addition to that, it has exceptionally low input lag for a responsive feel. It comes with Samsung's unique Slim One Connect Box, which gives you quick access to the inputs when the TV is wall-mounted and offers versatility for your setup. The only minor downside is that it doesn't support Dolby Vision for Xbox gamers, but since the vast majority of Xbox games don't natively support Dolby Vision and you really don't need it on a TV this good, it's not a big deal at all. See our review Sizes 42" 48" 55" 65" 77" 83" If you don't want the Slim One Connect Box, 165Hz, a matte coating, or you just want to spend less, consider the Samsung S90F OLED. Like the Samsung S95F OLED, this model uses a QD-OLED panel in most sizes, so you still get the same perfect black levels and similarly vibrant colors. You also get impressive HDR brightness, so HDR games are impactful. Unfortunately, it's not nearly as bright in SDR as the more expensive Samsung, and its glossy screen coating doesn't provide nearly the same level of reflection handling, so reflections are visible in a bright room. However, these aspects are still good enough that you can use the TV in a moderately lit room, and you aren't distracted by reflections. You also get the same wide viewing angle as the more expensive model, so it's great for wide seating arrangements.Despite not offering 165Hz support, you can still game in up to 4k @ 144Hz with VRR on any of its four HDMI 2.1 ports. The TV has the same nearly instant pixel transitions and low input lag, so you get a sharp and smooth gaming experience. If you're considering this TV, just keep in mind that only some sizes have a QD-OLED panel, and even that varies by region. See our review Sizes 48" 55" 65" 77" 83" The LG B4 OLED is the best OLED TV for gaming in the mid-range category that we've tested. It's truly an awesome TV, with only a few drawbacks compared to the more expensive Samsung S90F OLED. It has most of the same features as the Samsung, although this LG model doesn't support 144Hz and is dimmer in HDR overall. Still, it's bright enough for highlights to stand out in HDR, and it overcomes glare in a moderately lit room. Like any OLED, you get inky blacks that are sure to impress. One advantage this WOLED has over the QD-OLEDs above is that blacks don't have a purple tint in a bright room, which is great if you regularly game in a room with your lights on. Colors aren't as vivid as they are on the two Samsung QD-OLEDs, but they still look vibrant and punchy enough to please most people.If you play couch co-op games with friends, this TV's wide viewing angle means anyone seated to the sides of the screen doesn't see a degraded image, so there's no fighting for the best seat in the house. This model isn't light on gaming features, as its four HDMI 2.1 bandwidth ports offer up to 4k @ 120Hz gaming with VRR. It also has a nearly instantaneous response time and extremely low input lag. Unlike the Samsung models, this TV supports Dolby Vision for Xbox gamers who like to play in that specific HDR format. Overall, this TV is a great entry point into the OLED market. See our review Sizes 55" 65" 75" 85" 98" If you can't afford an OLED or simply just don't want one, you can still get a solid gaming experience from a Mini LED TV like the TCL QM7K. You don't get the same perfect black levels of an OLED, but this model has great local dimming, so blacks are very deep with only some minor haloing around highlights. Colors are punchy and highlights stand out well in HDR, so this TV provides excellent image quality in your favorite HDR games. This is a very bright TV with great reflection handling, so you can use it in a room with bright overhead lights without worrying about reflections on the screen. It has a relatively narrow viewing angle, which is fine if you have friends seated at a slight angle to the screen, but it's not wide enough to retain its image quality from more aggressive angles.It supports a ton of gaming features that will please console and PC gamers alike. It supports 4k @ 144Hz and 1080p @ 288Hz, so you have options when it comes to the resolution and refresh rate you want to game in. You don't get the same nearly instantaneous pixel transitions as the OLEDs above, but they're pretty quick for a Mini LED model, so fast motion only has some minor trails of blur behind it. You enjoy a tear-free gaming experience thanks to its VRR support. Furthermore, the TV offers a snappy gaming experience thanks to its low input lag, especially at high refresh rates, so you're not at a disadvantage in PVP shooters. See our review Sizes 50" 55" 65" 75" 85" 98" If the TCL QM7K is a bit out of your price range, you don't lose a ton by going with the TCL QM6K instead. Blacks aren't as deep as they are on the more expensive model, but its contrast ratio is still good enough for bold blacks in a dark room. Colors look a bit muted compared to the QM7K, but they're still vibrant enough to please most gamers. The TV has good SDR brightness, so it overcomes glare from indirect sources, like overhead lights. Unfortunately, the TV is a bit too dim in HDR for highlights to truly pop out, so HDR games look a bit underwhelming. Like the QM7K, its viewing angle is narrow, so you might want to look elsewhere if you have a large living room with seating off to the sides of the screen.Fortunately, the TV's gaming performance is almost on par with the more expensive TCL. Pixel transitions are almost as quick, input lag is low, and the TV supports VRR. It even supports 4k @ 144Hz and 1080p @ 288Hz on its two HDMI 2.1 ports, so it's a versatile model. See our review Sizes 43" 50" 55" 65" 75" 85" 98" If you don't have a lot of money to spend, but still want to game in up to 120Hz, the TCL Q651G is a decent choice. Unlike every other TV on this list, it doesn't have local dimming, so blacks look gray most of the time. It's dimmer than the TVs above as well, but it's just bright enough in SDR to fight glare in a moderately lit room. Unfortunately, it's too dim to provide an impactful HDR experience, since highlights don't stand out like they should. The TV does display a wide range of colors, so even though they look a bit muted due to its low peak brightness, they don't look overly dull.The main thing that makes this model stand out in the sea of cheap LED models is that it supports up to 1440p @ 120Hz, which is great if you prefer higher frame rates over resolution. You even get VRR support throughout when gaming in 120Hz, so you get a tear-free gaming experience. Input lag is low enough that gaming feels responsive, but its very slow pixel transitions mean fast motion is noticeably blurry. It's fine for slower titles, but anyone playing fast-paced competitive games will be disappointed by the lack of motion clarity. Still, if you don't have the cash needed for the models above, the Q651G is a good option. See our review LG G5 OLED: The LG G5 OLED is one of the best TVs on the market and shares many of the same features as the Samsung S95F OLED, like 165Hz.It has very impressive colors, but it still doesn't match the level of vividness you get from a QD-OLED TV like the Samsung. Even though the LG is a bit brighter, it doesn't do as good of a job reducing the intensity of reflections, making the Samsung the slightly better gaming TV overall. See our review LG C5 OLED: The LG C5 OLED is an alternative to the Samsung S90F OLED. It's brighter than the Samsung in SDR and does a better job retaining its black levels in a bright room. However, the Samsung is brighter in its dedicated gaming mode, and it displays more vivid colors, making it the better TV for most gamers. See our review Samsung S85F OLED: The Samsung S85F OLED is a very good alternative to the LG B4 OLED, but only if you're looking for a 55-inch or 65-inch model in the US. Like its more expensive older siblings, the Samsung uses a QD-OLED panel, so colors are punchier on it. However, the LG is the better choice for most people, since it's the brighter TV overall, it's more accurate, and you know what panel you're getting when you buy it. See our review Hisense U75QG: The Hisense U75QG is a good option if you wish the TCL QM7K was brighter. However, the Hisense drastically overbrightens HDR content, so it doesn't stay true to the game maker's intent. The Hisense alsohas slow pixel transitions, so fast motion is noticeably blurrier on it. Since the TCL also has superior contrast, it's the more complete package overall. See our review Hisense U65QF: The Hisense U65QF is comparable to the TCL QM6K, but it's noticeably brighter. Unfortunately, the Hisense displays HDR content much brighter than intended. Since the TCL has better black levels, superior accuracy, supports 1080p @ 288Hz, and has lower input lag, it's the better option for most gamers. See our review Jul 15, 2025 : We replaced the Samsung S90D OLED with the Samsung S95F OLED as our new top pick. We also replaced the LG C4 OLED with the Samsung S90F OLED in the 'Upper Mid-Range' category, the Hisense U7N with the TCL QM7K in the 'Lower Mid-Range' category, the Hisense U6N with the TCL QM6K in the 'Budget' category, and the Hisense A7N with the TCL Q651G in the 'Best Cheap TV' category. We also dropped the 'Best Bright Room' category, since the S95F outperforms our old pick, the Sony BRAVIA 9. May 13, 2025 : We dropped the TCL QM7/QM751G QLED from the Notable Mentions and mentioned it alongside the Hisense U7N instead. We also touched on the issues facing the 77-inch Samsung S90D OLED, added the Samsung S95D OLED to the Notable Mentions, mentioned the LG C5 OLED alongside the LG C4 OLED, and replaced the Sony A95L OLED with the LG G5 OLED in the Notable Mentions Jan 29, 2025 : Added a link to our 2025 TV Lineup page and updated some text throughout the article for accuracy. Dec 05, 2024 : Ensured the availability and accuracy of our current picks. Oct 10, 2024 : Replaced the Samsung S90C OLED, the LG C3 OLED, and the LG B3 OLED with their 2024 successors. We also updated the Notable Mentions section. Our recommendations are based on what we think is the best 4k TV for gaming depending on your budget and needs. They are adapted to be valid for most people in each price range. The rating is based on our review, factoring in price and feedback from our visitors.If you would prefer to make your own decision, here is the list of all of our TV reviews. Be careful not to get too caught up in the details. Most TVs are good enough to please most people, and the things we fault TVs on are often not noticeable unless you really look for them. I vividly remember buying my first OLED TV, the LG E8 55 inch back in 2019, right before we all went into hiding. Let me tell you: it was the perfect isolation companion. At the time, I didnt really know what OLED (organic light-emitting diode) was like. I knew that instead of the backlight in LCD displays, OLED features self-lit pixels, which means infinite contrast. But after jumping onto the pretty boy train in Final Fantasy XV and fighting through scar territory in The Last of Us Part II, it hit me. This is what it feels like to live a nostalgic fever dream-like memory in real time. Naturally, I didnt stop at the E8.A few years later, I bought the LG C2 65-inch TV, and since then, Ive reviewed tons of devices with OLED displays and learned that not all OLED screens are created equal. In fact, not all OLED displays even share the same technology. You might be wondering, How many OLED types are there? Well, too many. But theres really only three you should care about: WOLED, QD-OLED, and AMOLED.WOLED, QD-OLED, and AMOLED: How They WorkOLED has been around for decades, with companies from Kodak to Mitsubishi trying new takes on the technology. It wasnt until LG debuted its OLED TVs in the early 2010s that the technology became mainstream. LGs variation of OLED is called WOLED (White OLED). The company doesnt call it that in its marketing because LG is OLED, or so it would love for you to believe. But what is WOLED? As Ive explained, OLED ditches the backlight and uses self-lit pixels. This gets you the infinite contrast and bold colors. The issue is the compounds in red, green, and blue emitters deteriorate at different rates. As you might know, burn-in is an issue for OLED displays, but this accelerated the process.WOLED solves this issue by using a pure white OLED layer with a RGBW color filter. So imagine all of those self-lit pixels theyre not red, green, or blue anymore, theyre just white. However, this has its own issues. Try blasting a spotlight through a bunch of color filters some of those lights will be brighter than others. This causes imbalanced brightness and reduced color volume. (Pricier WOLEDs try to solve this with Micro Lens Array technology, which squeezes thousands of microlenses onto a single pixel to focus light.)However, another solution made its debut in 2022, called QD-OLED (Quantum Dot OLED), which was heralded by Samsung. QD-OLED swaps that white OLED layer for a blue one, which hits a layer of quantum dot color convertors. The quantum dots aren't like the RGBW filter because they absorb the light, so when they convert the blue into red or green, they don't lose any of the backlight.Meanwhile, AMOLED is in its own little category because its basically like WOLED except it features a thin-film transistor (TFT) layer, which helps control the charge of each pixel, allowing the pixels to be activated faster. However, that comes at the cost of OLEDs iconic infinite contrast.WOLED, QD-OLED, and AMOLED: Which Is Better for Gaming?The right OLED tech for gaming comes down to circumstance and preference. If you want the simple answer: QD-OLED is the best. However, there are some situations where you want WOLED, and some where youre stuck with AMOLED.First, lets talk about AMOLED since I was just getting into how its in its own little category. Most AMOLED displays are typically found in smartphones and laptops. You wont see them in many TVs because theyre expensive. AMOLED is flexible (literally, its used in foldables), so it can accommodate virtually any screen size and features high refresh rates and better viewing angles. But for the most part, you dont have much choice in the type of OLED you buy on smaller devices, especially since the display isnt the sole focus. (Ironically, for something designed for smartphone usage, they are the worst in direct sunlight because of their lower peak brightness.)When it comes to gaming monitors and TVs, you get the choice of WOLED (marketed as just OLED) or QD-OLED. WOLED gets extremely bright because of its white OLED layer, but thats only with whites. As I mentioned earlier, the RGBW filter loses a lot of brightness across its colors. So you get an overall brighter visual on a QD-OLED display. And since the quantum dots absorb light instead of filtering it through, youre also going to see bolder colors.But lets go back to the white OLED layer that WOLEDs are rocking. I have my OLED TV situated in my living room across from my windows, so it gets plenty of glare. However, the darkest parts of the TV still look black. Meanwhile, my QD-OLED monitor thats on my desk does not look black against glare. Instead it gives off a purplish tint. Thats because, in an effort to increase brightness, Samsung removed the polarizing layer from QD-OLED displays, which would normally reduce reflections. For overall color and brightness, QD-OLED displays technically look better. But in a highly reflective space, WOLED screens are way less distracting. I will point out, however, that this is all in theory. The quality of the displays themselves really comes down to specs. You cant get around the money factor the more you spend, the prettier it will be, as a general rule.But QD-OLED and WOLED may not be the only choices we have for very long.The Future of OLED Is PHOLEDThere are plenty of types of OLED. One of them is called PHOLED (Phosphorescent OLED), which uses phosphorescent materials (as opposed to fluorescent) to convert energy to light. The issue with this technology is that the blue in PHOLED has a significantly shorter lifespan than green and red, which makes a PHOLED panel pretty much DOA.However, LG just recently announced that its overcome the challenge of blue PHOLED and is now ready for mass production. LG refers to PHOLED as Dream OLED and thats because phosphorescence offers 100% luminous efficiency, surpassing the 25% efficiency of fluorescence. That means a PHOLED TV will be brighter and consume less power.Unfortunately, we won't see PHOLED displays in TVs anytime soon. But we will get a glimpse of the technology in smartphones and tablets sooner than later.Rami Tabari is a contributing writer at IGN with over 9 years of experience in the tech and gaming industry. You can find his bylines at Laptop Mag and Tom's Guide (and on a random Predator review at Space.com). When Rami isn't wading through a sea of the latest gaming tech, he's agonizing over the worldbuilding in his upcoming novella. Find out if OLED TVs are good for playing video games.OLED displays have an excellent response time and refresh rate for video games, making them one of the best types of displays for playing games.Displays with a low response time and high refresh rate (120+ Hz) are recommended to have the best experience, so this is a perfect type of TV for your needs.Most TVs will have a "Game Mode" option or equivalent, making your display use its highest response time, input latency, and refresh rate.Keep in mind that your computer or game console must handle a high refresh rate to support using a high refresh rate display. PS5 and Xbox Series X/S both support a 120 Hz refresh rate.The refresh rate of OLED displays is usually 120 Hz but can reach higher in newer models, which is fast enough for most cases.Refresh rate is the number of times the display can redraw the screen. Refresh rate is measured in hertz (Hz), which is defined as one cycle per second. For example, 60 Hz would refresh the screen 60 times a second. A reasonable refresh rate is anywhere from 144 Hz to 240 Hz and above.OLED TVs have a response time of around 0.2 ms for 80% of color transition and 2-3 ms for the remaining color. It's best to have 6 ms or less response time for displays, and OLED TVs exceed that, making them one of the best types of displays regarding response time.Response time is the time it takes a display to change from one color to another. The timing of this is usually determined by going back and forth between white and black. The timing is measured in milliseconds, with lower being better.The higher response time a display has, the more blurring you'll notice in fast-motion scenes like in sports and video games.Learn more about OLED TVs in my article: Ultimate Guide to OLED TVs.Find OLED TVs on Amazon The LG C2 evo OLED TV has self-lit OLED pixels with superior image quality, extreme contrast, perfect blacks, and over a billion colors.This is an exceptional TV for any use, whether for movies, games, sports, or as a PC monitor.This TV has Nvidia G-Sync, FreeSync Premium, and variable refresh rates which are great for games.These new OLED models can now work well in brightly-lit rooms with their brightness booster and a9 processor.Check the latest price of the LG C2 evo OLED TV on Amazon LG 65-Inch Class OLED evo C2 Series This TV has superb picture quality with an extreme contrast ratio, perfect for your home theater room.The Sony A80K OLED has excellent color out of the box, so there's no need for color calibration.A negative to this TV is that it might not be bright enough for very bright/sunny rooms. This is common among most OLED TVs.This TV has Google TV built-in, allowing you to watch from most of your streaming services quickly and smoothly.The Sony A80K OLED has very low input lag and quick response time, both of which are excellent for sports and gaming.Check the latest price of the Sony Bravia XR A80K OLED TV on Amazon Sony Bravia XR A80K OLED TV Have a suggestion or correction for this article? Send us an email at:corrections@techreviewer.comYou can also contact the author at:brandon@techreviewer.com

Is oled good for gaming pc. Is oled good for fps gaming. Is asus zenbook 14 oled good for gaming. Is asus vivobook s15 oled good for gaming. Is oled screen good for gaming. Is the c4 lg oled tv good for gaming. Is 60hz oled good for gaming. Is asus vivobook 15 oled good for gaming. Is oled good for gaming laptop. Is oled good for retro gaming. Is qd oled good for gaming. Is oled tv good for gaming. Is oled good for gaming monitor. Is oled good for competitive gaming. Is oled good for gaming reddit.