

Aric Allen Recommendation Report

Introduction

Hardcore gamers rely on every millisecond of an advantage they can get. A casual video game connoisseur may not mind being beaten solely because their competition has a better setup than them, but a hardcore gamer takes this to heart. This is why hardcore gamers will go out of their way to make sure they have a monitor that is considered the best of the best. To help the hardcore gamers find their perfect monitor, I evaluated three monitors which are different and unique (Dell Alienware AW2521HFL, AOC CQ27G2, Samsung Odyssey CRG5 Series 24") to identify which has the best price, refresh rate, response time, display resolution, and size.

Background

I am writing this report because I have always loved technology. I've been playing video games ever since I can remember and that love took me into the Information Technology field and working at Best Buy. Both my previous courses at UALR and my experience at Best Buy make me feel confident in writing this report.

Measurable Qualities

When it comes to the technical specifications that will be evaluated in this report, some may not understand what I am talking about. While price and size are self-explanatory, the others are not. Refresh rate is the frequency with which the image on a computer monitor is refreshed, usually expressed in hertz. The higher the hertz, the faster the image on the monitor is refreshed. Response time is the time it takes for the monitor to change the color of a pixel from one to another. The lower the response time is, the faster the monitor changes the properties of a pixel. The display resolution is the number of pixels in each dimension that can be displayed. The higher the resolution, the better quality of image you will receive. However, a higher resolution isn't always the best for hardcore gamers. The more pixels the monitor has to display, the harder your computer has to work to display those pixels, resulting in worse computer performance in-game. If you have a good PC build, then this will not be a problem.

Comparisons of Dell Alienware AW2521HFL, AOC CQ27G2, Samsung Odyssey CRG5 Series 24"

Dell Alienware AW2521HFL

- 1920x1080p display resolution
- \$364.99
- 240hz refresh rate
- 1ms response time
- 24.5" diagonal screen size



AOC CQ27G2

- 2560x1440p display resolution
- \$289.99
- 144hz refresh rate
- 1ms response time
- 27" diagonal screen size (curved)



Samsung Odyssey CRG5 Series 24"

- 1920x1080p display resolution
- \$249.99
- 144hz refresh rate
- 4ms response time
- 23.5" diagonal screen size (curved)



Conclusions

1. The Dell Alienware AW2521HFL has a better refresh rate than both the AOC CQ27G2 and the Samsung Odyssey CRG5 Series 24".
2. The AOC CQ27G2 has a better display resolution than both the Dell Alienware AW2521HFL and the Samsung Odyssey CRG5 Series 24".
3. The Samsung Odyssey CRG5 Series 24" has the lowest price compared to the Dell Alienware AW2521HFL and AOC CQ27G2.
4. The Dell Alienware AW2521HFL and the AOC CQ27G2 have a response time of 1ms, while the Samsung Odyssey CRG5 Series 24" has a 4ms response time.
5. The AOC CQ27G2 is the largest monitor with a 27" diagonal screen size, while the Samsung Odyssey CRG5 Series 24" has a 23.5" diagonal screen size and the Dell Alienware AW2521HFL has a 24.5" diagonal screen size.

Recommendation

What I gathered from my evaluation of these products is that first, they are all very good monitors and each has the right to be included in this report. I would recommend the Dell Alienware 2521HFL. It has all of the best specifications and that 244hz refresh rate is huge for hardcore gamers and stands out in the category compared to the AOC CQ27G2 and Samsung Odyssey CRG5 Series 24". It does have the highest price of \$364.99, but if the price isn't a problem then this would be the one to get. Now if the price is too high, then I would recommend

the AOC CQ27G2. It is the biggest size monitor and has that 1ms response time that is key for hardcore gamers. It also has the best screen resolution for that better image quality.

Information Sources

1. https://www.samsung.com/us/computing/monitors/gaming/24-crg5-gaming-monitor-lc24_rg50fqnxza/
2. <https://us.aoc.com/en-US/gaming/products/monitors/cq27g2>
3. https://www.dell.com/en-us/shop/alienware-25-gaming-monitor-aw2521hfl/apd/210-awdy/monitors-monitor-accessories?gacd=9614064-1014-5761040-266794588-0&dgc=st&gclsrc=aw.ds&ds_rl=1286018&gclid=Cj0KCQjwtMCKBhDAARIsAG-2Eu_9Js10x8nmraUojd5gQPdQAgY3hklQEIde2pKL91CsvORD_KTubUaAqGdEALw_wCB#techspecs_section