8 Reasons to Choose Curved Monitors Over Traditional Flat Monitors

Comparing Curved Vs. Flat Monitors

The demand for curved monitors is growing. Samsung Display sold seven million last year alone. But is it the right choice for you?

We look at how curved monitors compare to traditional flat monitors.

1. Increased Immersion
The main advantages of curved monitors are their increased level of immersion when compared to flat monitors.

The angles of curved screens change the way we view the content shown, making the images we see feel closer to ‘real-life’.

This is due to our visual perception. We interpret the images around us with three dimensions - length, width and height. If only two of these exist, everything appears flat (as they do with flat monitors). The reason why curved monitor images appear more realistic is that they allow us to see all three dimensions.

The curved shape of the screens further enhances this immersion as it forces us to use our peripheral vision.

2. Reduced Distortion

Flat screens can be prone to blurriness or image distortion. This can be particularly noticeable around the edges of videos or pictures, especially if the monitor is a larger one.

A Harvard Medical School study independently revealed that blurred vision was 4x more prevalent on flat monitors than on curved monitors.

Distortion is significantly less on a curved monitor due to the physics of light projection. A curved screen’s shape causes the light to be aimed at the viewer, limiting distortion. Whereas flat screens are only able to project their light (and therefore images) in straight lines - this means some will be directed towards viewers, but other light will be directed away.

3. Greater Eye Comfort
The light projection physics in curved monitors also improves the comfort of your eyes. This is because our eyes do not have to strain to see everything, with all the light directed to us as the viewer.

If flat screens exceed the natural field of view, it can unnaturally stress your eyes. Harvard Medical School found that eyestrain and eye ache are 60% more common on flat monitors than on curved monitors.

By contrast, even the largest curved screens allow your eyes to feel naturally comfortable while taking everything in.

Samsung Display’s curved panels use an advanced 1800r curvature which matches the natural curve of the human eye, giving the ultimate amount of eye comfort.

4. Perceived Wider Field of View

Curved screens can make the images seem more realistic.

Due to the direction of light and the presence of all three visual perception dimensions, the viewer can interpret the images with less eye strain than flat screens. This also has the added benefit of making images appear more real.

As it’s easier than usual for eyes to cover this large field of view, the curved monitors will feel larger. This further increases the feeling of immersion. Also highlighting some of the main curved monitor advantages.

5. Enhancing Efficiency

Enhanced Comfort & Productivity

Faster Tracking  |  Power Saving  |  Eye Health

Far more than just a pretty screen, curved monitors also have a practical benefit.

Here’s why:
1. **Reading on a curved screen is faster.**
2. **Finding things on a curved screen is faster.**

By reducing eye fatigue and discomfort, they maximize the amount of time staff can work to their full potential. They also help employees to look at multiple things at the same time.

Ultrawide curved monitors help desk workers to see (and work on) multiple open applications and windows simultaneously without disruption.

There are various scenarios when this benefit could be helpful. For example, it can allow someone to see a spreadsheet of data while they write out their summary of its findings. Or it can help somebody monitor a live feed or messages, while still focused on their main task. It’s also particularly useful for creative roles as it improves color uniformity, and creates further efficiencies by removing the time an employee may spend ensuring dual monitors are matched.

**6. Aesthetically Pleasing**

Although not a scientifically proven benefit, an obvious reason to choose a curved monitor is because of their style.

For offices, they make workspaces sleeker by reducing the need for two flat screens as a dual monitor set up. For gaming, you can emulate the professional set-up. And, finally, for home use, you can transform an ordinary monitor into an interior design statement piece.

Curved monitors are not only technologically impressive; they are also in demand for their style alone. The only downside the look brings is that they are harder to mount on walls than flat screens.

**7. Latest Technology**

In the past, flat-screen monitors used more reliable technology than curved monitors. However, this is no longer the case.
When curved monitors first emerged, they were created by bending pre-existing flat monitor panels. Now, however, they use newer and reliable technologies that have been refined to suit curved screens.

Today, curved monitors are almost all created using either in-plane switching (IPS) or vertical alignment (VA) panels. VA panels are more suitable for curved monitors.

8. Faster Pixel Response Time

Pixel response time refers to the time it takes for a pixel to change from black to white, or from one shade of gray to another. This is particularly important for gamers as faster response times enhance the fast visuals of gaming.

Although the curve of a monitor itself does not affect the speed of the pixel response, curved monitors are more likely to be equipped with the latest technology. This is because curved monitors are often specifically made with the gaming audience in mind.

Combining a fast response time with the immersive nature of ultrawide screens makes for the ultimate gaming experience. If you’re looking for high response time and superior visuals, a curved gaming monitor may be the solution for you.

If you’re looking to buy a new monitor, now is the time to consider a curved monitor. With technical advancements and an increasingly natural way of viewing, curved monitors are a display trend that will only continue to grow.

Interested to upgrade to the latest curved monitors? Visit SDC Curved Displays home page on Amazon.com.
Additional resources:

1. Why our brains love curved buildings
2. Are curved monitors worth it?