

3D Solar Technology

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The 3D Solar effect is a technology that realizes people's dreams

3D Solar display devices are set to revolutionize the way that people enjoy multimedia content both at work and at home. This latest innovation finally brings the dream to reality. For the very first time you will see objects flying few inches away from your screen without glasses and will be able to rotate 180 degrees around these objects.

1 Introduction

Since images are based on a single view, content providers will not have to deal with two complex and independent images to create the 3D Solar effect. Free from these technological complexities, content providers will be able to re-focus on their core business and freely create and develop 3D images in no time. 3D Solar technology is not based on the principle of autostereoscopy.

3D Solar display device's high resolution guarantees a high quality output with ideal contrast, brightness and color behavior, thus enabling accurate and precise visualization at a high level of details and without straining the eyes.

2 A real solution for customers.

This technology allows the 3D Solar device to be used like a normal TFT screen as well. Another stand-out feature is the way you will be able to manipulate the virtual image directly with your hands like you would do it with a real object. Imagine 3D Solar screen displaying selected store products 5 inches away from the actual retail store window and offering passerby the possibility to interact with the virtual objects. These are just a few examples of the ways our company and its talented staff will bring 3D Solar technology to customers.

While several competing technologies are already serving business and industry, they've had difficulty providing a comfortable top-quality display. For example, Ford Motor Company is using a system based on liquid crystal shutter glasses. Although shutter glasses are the leading stereoscopic solution, users suffer from fatigue and headaches. Flickering of both the display and the room compounds the bulky device's physical discomfort.

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Competition / Barriers to Entry

3D Solar is a patented technology.



Figure 1. 3D Solar prototype.

Even those 3D technologies that don't require glasses (such as Sharp's and Sanyo's) do force the user to remain immobilized in a fixed "sweet spot" leading to muscle fatigue, to say nothing of the inconvenience. Lenticular systems (such as Philips's) minimize the sweet spot effect by creating discrete, adjacent viewing zones, but slash resolution. Similarly, resolution is seriously compromised by parallax-based solutions (such as those by 4D-Vision, DTI, and Sharp).

There are no direct competitors to the 3D Solar patent, in the sense that no other company has equivalent functionality. In the 3d display market, the most similar is Sharps which are based on autostereoscopy but these technology are not 180°, very greedy in CPU, not interactive, low resolution, 3d images are complex to achieve and not compatible with normal screens, for a much higher price.

References

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