THE CORETEC GROUP

3D Display Application

Coretec CSpace®

Glasses-Free 3D Volumetric Display

Coretec CSpace will deliver 800 million voxels in a full color desktop format having a 360 degree viewing angle. The creation of high resolution images in a glass chamber reduces eye and cognitive fatigue that can degrade user comfort, endurance and reliability during decision making.

Features & Benefits

Create True 3D Images
Depth of field accurately represented

All Aspect Viewing
Enables collaboration during critical decision making

Bill of Materials Primarily COTS
Lower production costs

Ability to Create Still, Animated & Video Images
Broad Application

The Challenge

The human visual system is uniquely constructed to function in a 3D world. While many sophisticated techniques have been developed to trick the eye into seeing a 3D image, they are unable to provide the information and cues the visual system relies on to produce 3D mental images of the world. This limits the usefulness of displays and, in some cases, induces physical side effects to the viewer.

The Possibility

Coretec CSpace is a patented, glasses-free 3D static volumetric display technology, designed to produce high-resolution, full-color, true 3D images from 3D datasets. These datasets can be generated by imaging systems or transformed from raw datasets (e.g., cyber data), that can benefit from visualization in 3D. The result is replication, as closely as possible, of natural viewing conditions that do not limit the viewing zone available to the viewer.

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