



# 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.