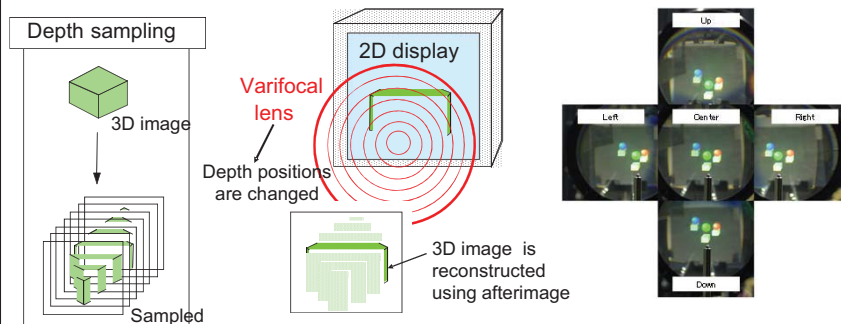


“3D display using varifocal lens”



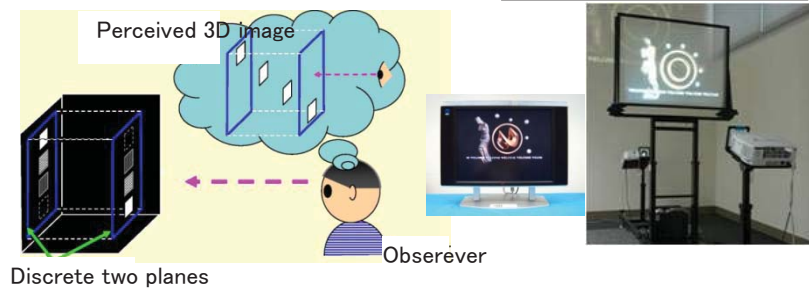
Content:

In our laboratory, human-friendly 3D display systems have been developed, based on liquid-crystal devices and perceptual phenomena.

“3D display using varifocal lens”

We have developed the varifocal lens using a liquid-crystal devices. By using this varifocal lens, floating 3D images have been realized. These floating 3D images is promising for human-friendly 3D images.

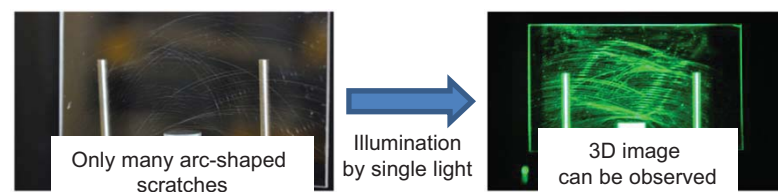
“DFD (Depth-fused 3D) display”



“DFD (Depth-fused 3D) display”

We found the depth-perception phenomenon that the continuous depth can be perceived only by using discrete two planes. By using this DFD phenomenon, simple 3D display system can be realized from 9-inch to 200-inch size.

“Arc 3D display”



“Arc 3D display”

Many arc-shaped scratches or protrusions easily provide 3D image with smooth movement parallax, which will be switchable by using liquid-crystal devices.

Keywords: 3D, DFD, Volumetric, Depth perception

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