

## SeeReal Hi-Res Holographic Display

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German company SeeReal demonstrated a new holographic [display](#) at the SID 2007 this week.

The holographic display prototype uses a 20 inch display that [displays](#) a real high-resolution 3D image in front the screen. SeeReal only uses an approx. 30x30 pixel array for each of the 3D scene points - the so-called "sub-hologram" approach.

Overlapping all of these sub-holograms on the data panel allows creating a Full-HD 3D scene while using [LCD](#) flat panel displays with resolutions available today, e.g. 30-50µm pixels for a 40-60" holographic HDTV.

The holographic display uses an eye tracker to know where your eyes are located, to send information only to these positions. Outside these "viewing [windows](#)" you see nothing at all. The display appears empty.

With this selective method the enormous data amount to display high resolution 3D images is reduced drastically. The advantage of this holographic technology is that you also see the 3D effect with one eye which makes the display less strenuous to watch compared to



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Information

conventional 3D displays that rely on stereoscopic vision. SeeReal is still in a prototype phase and the 3D images only display in red color.

More details on [Heise](#) (German). See also the SeeReal [site](#). We reported the first time [about SeeReal 3D monitors](#) back in 2004.

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