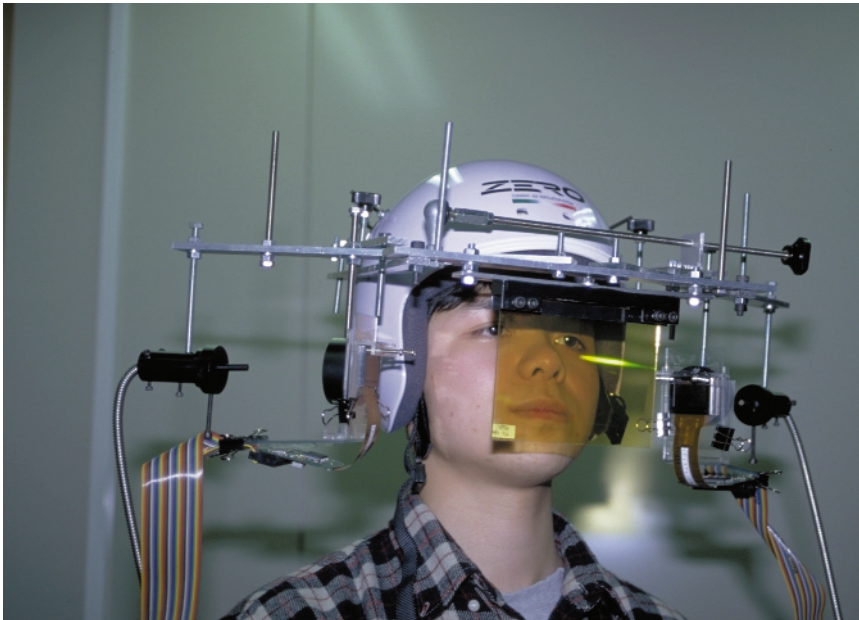


This experimental see-through HMD (head-mounted display) uses holographic optical elements (HOE) instead of the half mirror that is usually used in conventional HMDs. Because it is grated, the system can produce images by diffraction, and it behaves like a heads-up display. It delivers the left and right images into both eyes, so users experience binocular parallax (stereoscopic) images.

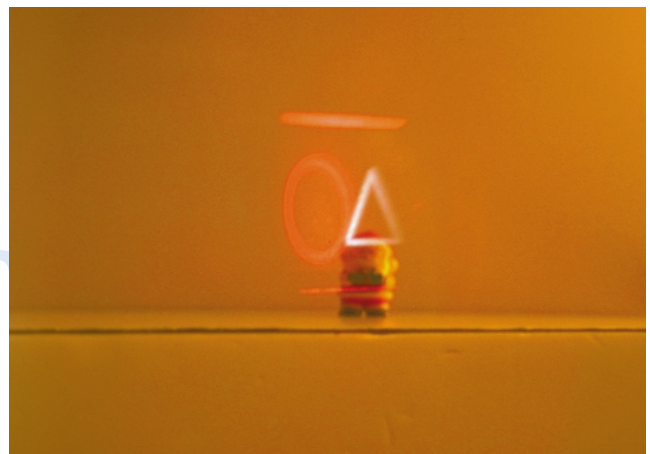
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When the system is used in interactive augmented-reality environments, its laser-illuminated LCD display mixes virtual and real worlds. Users see clear laser-illuminated images floating within wide, bright real environments.



Prototype of HMD using holographic optical elements.

Hologram



View through a holographic optical element.