

Laboratory of virtual design of production systems

The "3D free-space presentation" (heliodisplay) device is a 3D spatial display system that does not project on any solid object, but it literally hangs in the air and can be passed through. Spatial display is enabled by using display device that transmits an image with a well-defined wavelength (hologram) and intersects in one point. A hologram is a specific form of record that allows you to capture its three-dimensional structure. The image created in this way is then displayed in space. Applications for the use of the heliodisplay device are primarily intended for presentations purposes for displaying 3D objects in free space with contactless control in various industries.

VDMS (Virtual Design of Manufacturing Systems) technology using augmented reality