Why HoloVizio is true 3D?

User benefits of Holografika technology in 3D display solutions:

- Continuous motion parallax, which provides “look-behind” capability
- Large field of view supports more viewers, and collaborative use
- No fixed viewer positioning required, viewer can freely move in front of the screen
- No optical contradictions, no side effects, discomfort, disorientation in longer, everyday use
- Stable 3D image which doesn’t “jump” between views in the horizontal perspective
- Reference points do not move if the viewer is moving and are exactly there where they seem to be (the 3D object position does not depend on the viewers’ position)
- No head tracking necessary (no latency or accuracy problems)
- The 3D view can be seen in the entire field of view, no invalid zones
- Any kind of objects or 3D views can be visualized with correct occlusion, vs. wire frame, translucent images only, offered by certain technologies
- Ability to display any type of 3D information and to use different OpenGL based 3D software solutions
- 2D compatibility. No need to switch between 2D and 3D view
- Full frame rate motion and real-time interactivity
- Proper brightness, good visibility under normal lighting conditions

Acknowledgements:

ARi(VA)² EUREKA Project

The ARi(VA)² project is proposing strong innovation in the domain of visualisation for virtual automotive production / design, through: … the development and integration of a holographic display system. Partially supported by www.eurekanetwork.org/project-44000

Muscade EU FP7 Integrated Project (ICT-247010 IP)

MUSCADE will create major innovations in the fields of production equipment and tools, production, transmission and coding formats allowing technology independent adaptation to any 3D display and transmission of multiview signals. Partially supported by www.muscade.eu

Product specification:

- **Product name**: HoloVizio C80 Glasses-free 3D Cinema System
- **Aspect ratio**: 16:9
- **Screen size**: 140” - 3 m x 1.8 m
- **3D resolution**: 63 Mpixel
- **Viewing angle**: 40° horizontal
- **Colour**: 16 Million brilliant LED colour (24 bit RGB) 115% NTSC
- **Brightness**: 1000 cd/m²
- **Input**: Gigabit Ethernet
- **Compatibility**: PC
- **Dimensions**: 4 m x 3.5 m x 5 m + viewer area (auditorium) (W x H x L)
- **Mass**: 900 kg
- **Power network compatibility**: 50 Hz ... 60 Hz
- **Nominal voltage level(s)**: 230/400 V, 115/200 V (3 phases)
- **Power Consumption**: 18 kW
- **Operating temperature**: +0°C ... +25°C
- **Relative humidity**: Max: 80% / 50%
- **Usage type**: Indoor

**Light Field™**

Glasses-free 3D Cinema

- No glasses
- No headache
- No optical contradictions
- Natural view
- Continuous motion parallax
- No viewer positioning
- Vivid LED colours
- 2D compatibility
- Fitting cinema rooms
- 3D Home Cinema, 3D simulators
- Full support of 3D light field format
See your 3D data “as is”

The holographic 3D display system developed by Holografika overcomes the limitations of the current 3D displays, reconstructing natural 3D images to a number of viewers in a reasonable field of view, with walk-around possibility without any restrictions.

The 3D Light Field technology is a high-end approach compared to other solutions and fulfills all the requirements of real 3D displaying simultaneously

www.holografika.com