

Looking Glass

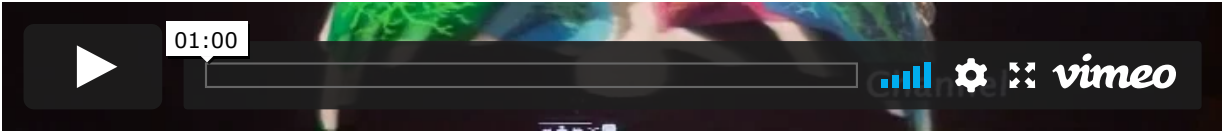
32 Inch 8K Light Field Display

Holoxica is an authorised reseller for the [Looking Glass Factory](#) 32 inch (81 cm) light field display that is capable of showing full-colour 3D animations without needing glasses or a headset. The display comprises an 8K LCD screen, optical array and a combiner block. It can show 45 unique view points within a viewing zone of 50 degrees. It supports popular graphics software frameworks such as Unity out of the box; Unreal Engine is in development. It also runs Holoxica's [Holoviewer](#) app and content.



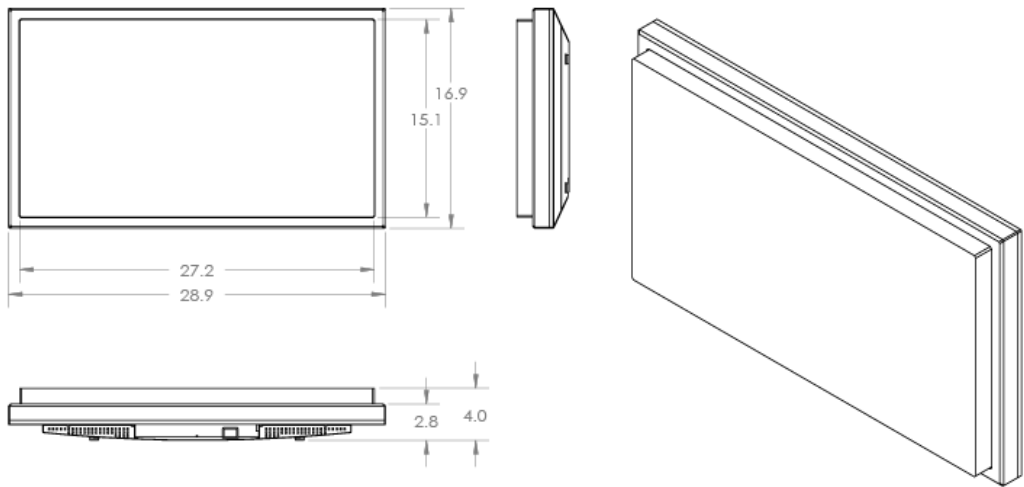
Scientific data visualization, courtesy of the Looking Glass Factory





Display Specifications

Screen Diagonal	32 inches diagonal (81 cm)
Field of View	40~50 degrees
Light Field Resolution	45 views horizontal parallax
Spatial Resolution	33.1 Million rays (8K)
Viewing volume	~90 litres
Viewing distance	1.0 ~ 3.0m typical
Number of Viewers	12 persons
Refresh rate	60 frames/sec (video)
Colours	10.1 Billion RGB
Interfaces	HDMI, Displayport, USB x2
Power supply	In AC 100-240V ~50-60Hz, 3.5 Out 19.5Vdc 11.8A
Power consumption	180W
Dimensions	36.8 x 17.5 x 24.4 cm (L x W x H) 28.99” x 16.9” x 4.0” in (L x W x H)
Weight	28.6 kg / 63 lb



Looking Glass 8K Immersive Display
Unit: Inch

Data Formats

- Common graphics: OBJ, gltf, fbx
- 3D Printing: STL
- Volumetric: Dicom, nrrd

- Mathematics: Matlab, Mathematica
- Molecular: PDB, MOL
- Scan: point cloud, XYZ, sonar, LiDAR
- Graphics design: 3DS Max, Maya, Blender
- CAD: AutoCAD, ProEngineer
- Custom data, raw data

System outline

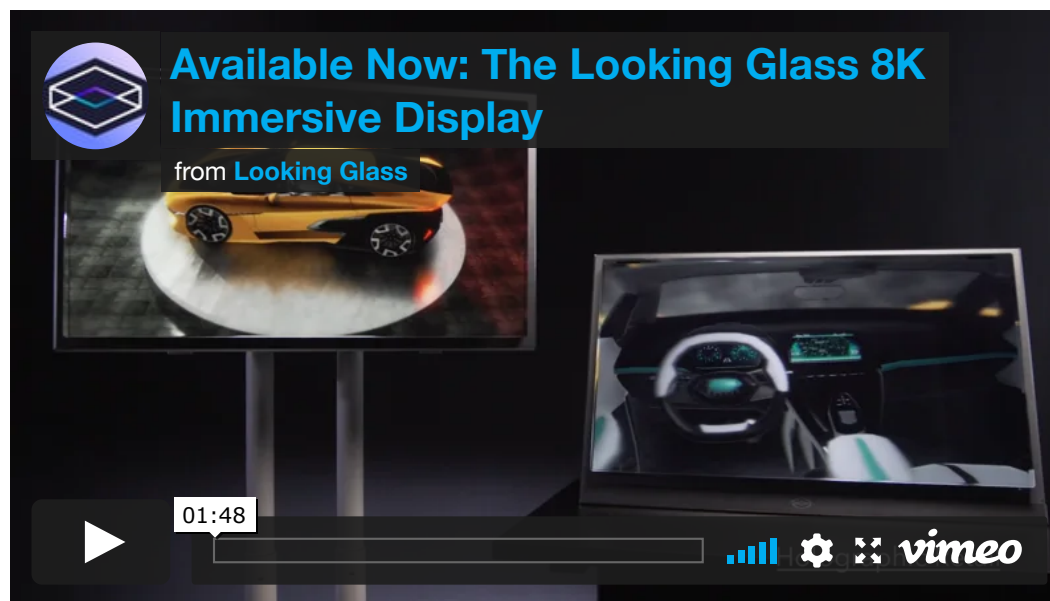
- Looking Glass Factory light-field display: 32 inches (or 15.6 inches)
- Light-Field Processor unit (or Graphics Workstation)
- Holoxica Holoviewer software app



Applications

- Medical education and training
- Scientific data visualisation

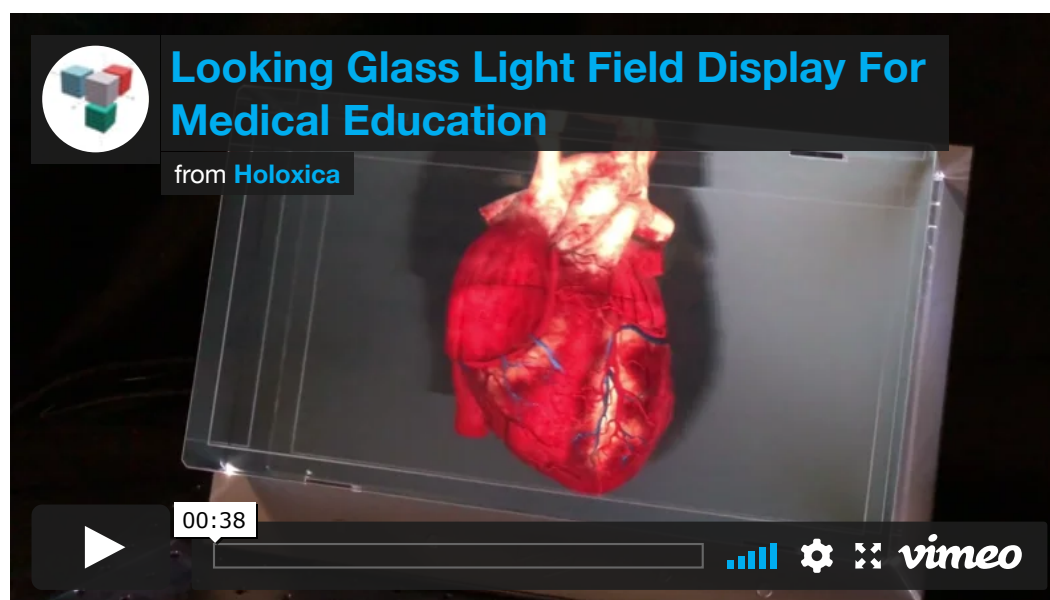
- Simulation
 - Engineering design
 - Architecture & construction
 - Maps and surveys
 - Military & aerospace
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Looking Glass 32 inch (80 cm) 3D Light Field Display. .

Overview of the Looking Glass display

The videos below show the 15.6 inch display in action. To be updated soon.



Medical Education

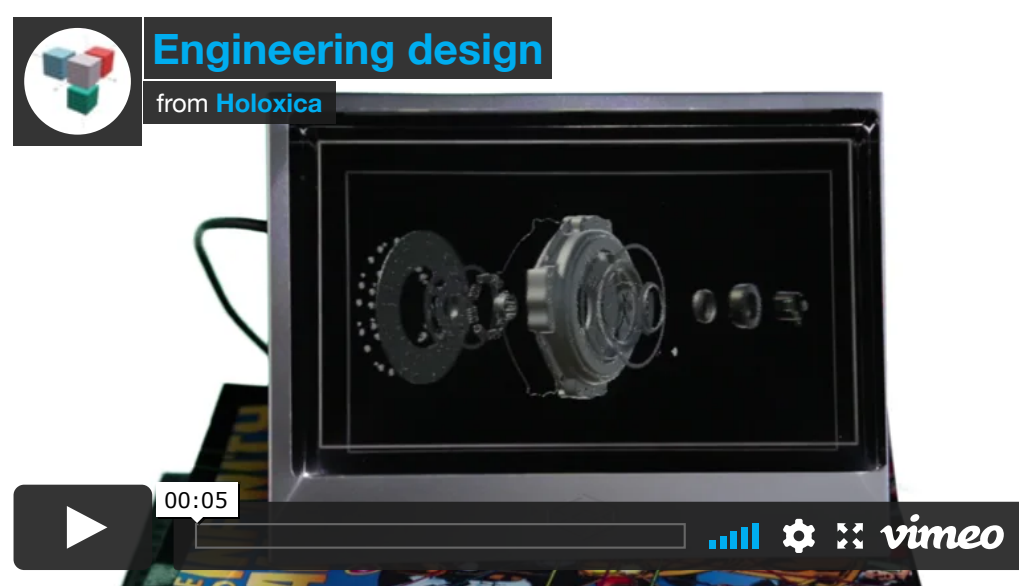
We have an entire collection of human anatomy models as

well as surgical visualisations.



Animation & Computer Graphics

Using standard 3D design and modelling tools.



Engineering design

Visualisation of complex engineering designs. Courtesy of Looking Glass Factory.

For more info, [get in touch](#) or give us a call on +44 (0) 131 618 2142

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