

Avalon Holographics

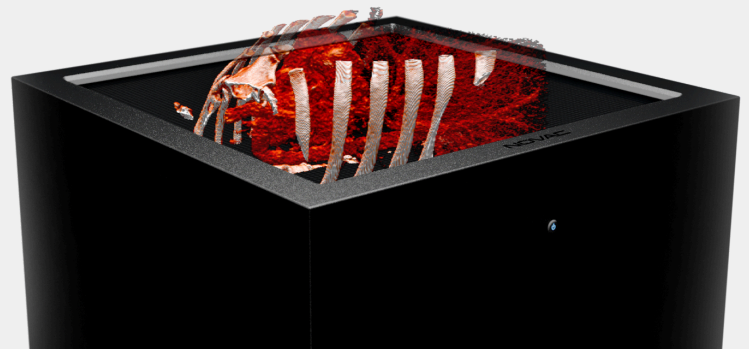
3D Holographic Display for Medical Visualization

AVALON
HOLOGRAPHICS

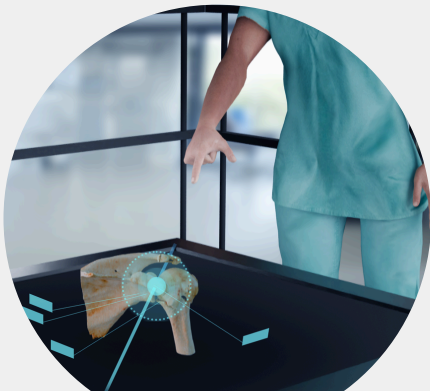
Advanced Medical Visualization

Avalon Holographics has developed NOVAC, a first-of-its-kind display technology that delivers true 3D visualization using light field technology. With full parallax and multi-user viewing, NOVAC allows multiple users to see the same data simultaneously from their own perspective.

In healthcare, where complex 3D data is often confined to 2D screens and static prints, NOVAC enables a more natural and intuitive understanding of anatomy, supporting clearer interpretation and more informed decision-making.



The Potential of Holographic Displays in Medicine:



Education



Surgical
Planning



Patient
Experience



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Unparalleled Viewing Capabilities

With a natural, glasses-free viewing experience and full parallax, clinicians and patients can engage face-to-face while exploring 3D data together. The result is more intuitive spatial understanding, stronger patient trust, and more meaningful conversations without the barriers of traditional visualization tools.

Unlike printed models, NOVAC brings data to life through real-time interaction. Users can zoom, rotate, pan, and instantly show or hide anatomical structures, making it easy to focus on what matters, adapt discussions in the moment, and communicate complex findings with clarity.

Technical Specifications

Display

Screen Size:	40"
Aspect Ratio:	1:1 (Square)
Resolution:	63,888 x 69,696
Active Pixels:	4.5 Billion
Viewing Angle:	90°
Viewers:	Unlimited
Frames Per Second:	30

Dimensions

Size Dimensions:	36" L x 36" W x 34" H 0.9m L x 0.9m W x 0.8m H
Weight:	975 lbs, 440 kg
Power Consumption:	5800W



Software Details

System Integration:	Unity, Unreal Engine, DirectX 12
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Supported Data

DICOM: CT, MRI, Ultrasound
3D file formats: OBJ, GLB, etc.

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