

Volumetric Display Market By Type (Swept Volumetric Displays, Holographic Displays, Static Volumetric Displays), By Technology (Digital Light Processing (DLP), Liquid Crystal on Silicon (LCOS)), By Application (Aerospace and Defense, Medical, Automotive, Communication and Entertainment, Others): Global Opportunity Analysis and Industry Forecast, 2022-2031

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Report description:

The global volumetric display market is anticipated to reach $\$14.8$ billion by 2031, growing from $\$1.4$ billion in 2021 at a CAGR of 27.0% from 2022 to 2031.

The use of stereoscopic imaging, a sort of visual display technology, enables viewers to observe things from all directions without the use of special goggles or headsets by projecting three-dimensional (3D) pictures or images. It gives a complete 360-degree picture of the object and gives the impression of depth and perspective that is present in real life. In contrast to conventional displays, which are two-dimensional (2D) and include flat panels and monitors, volumetric displays produce pictures that really fill real-world space. This is accomplished by directing light or other types of energy into a certain area, where the picture is created by the interaction of light with different tools or substances.

Volumetric displays provide a unique and immersive visual experience by projecting 3D images in space. Unlike traditional displays, which are limited to a 2D representation, the volume illusion offers other viewers the chance to see objects from different angles. This immersive experience has great appeal in industries such as entertainment, gaming, and virtual reality (VR). Volumetric displays do not require the use of special glasses or headsets to perceive 3D content. This advantage makes its more accessible and convenient for users as they can view 3D images directly with their eyes. Eliminating additional equipment improves the user experience and increases the potential applications for volumetric displays. With the increasing need for advanced visualization technologies in industries such as medical imaging, automotive design, aerospace, and architecture, the demand for volumetric displays is increasing. Volumetric displays offer professionals in these fields to effectively visualize and

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manipulate complex 3D data, leading to improved analysis, design, and decision-making processes.

Volumetric displays require advanced technologies to create true 3D holographic images. These technologies include high-resolution projectors, multiple display elements and sophisticated optical systems. The R&D and manufacturing processes involved in making these components can be expensive. Volumetric displays are still relatively new and not yet mass-produced. Low production volume limits the economies of scale that typically help lower costs for mass-produced products. As demand for volumetric displays rises and production increases, cost reduction is expected over time. Manufacturing processes for volumetric displays often involve complex assembly and precise calibration. These specialized processes require skilled labor and specialized equipment, which increases the overall cost. This factor is projected to hamper the market growth during the forecast period. Volumetric displays offer incredibly accurate 3D representations of medical imaging such as CT and MRI scans. These displays improve the accuracy of diagnosis and treatment planning. The healthcare sector is one of the biggest and fastest-growing markets for volumetric displays owing to rising applications in medical imaging, surgical planning, and medical education. By creating 3D models of organs, bones, and other anatomical elements using volumetric projections, doctors and surgeons may see and practice challenging procedures in advance. This can produce better results for those who are at reduced risk and recover more quickly. With the use of volumetric projections in the classroom, medical students, and trainees can study and comprehend anatomy in a more dynamic and immersive manner. The rising demand for volumetric displays in the healthcare industry offers a sizable potential for businesses in this sector. They can expect to see volumetric displays used in medical applications more frequently as the technology advances and costs reduce, which will enhance patient outcomes and healthcare delivery. All these are the major factors anticipated to create several growth opportunities in the market during the forecast period.

The COVID-19 pandemic had both positive and negative impacts on the volumetric display market. Volumetric displays have found applications in the healthcare sector, including medical imaging, surgical planning, and telemedicine. During the pandemic, these displays played a vital role in improving the visualization of medical data, aiding in the diagnosis and treatment of COVID-19 patients, and facilitating remote consultations. The demand for advanced visualization technologies increased due to the widespread adoption of remote work and online communication during the pandemic. Volumetric displays offer immersive and interactive visual experiences, making them valuable tools for remote collaboration, design reviews, and virtual meetings. The global supply chain disruption caused by the pandemic affected various industries, including the volumetric display market. Production delays, raw material shortages, and transportation issues affected the production and availability of volumetric imaging devices, leading to potential setbacks in the market growth.

The key players profiled in this report include Lumi Industries, Voxon Photonics, Artosci, Holoxica, Looking Glass, Burton Inc., SeeReal Technologies S.A., Sony, REALFICTION, and Alioscopy. The market players are continuously striving to achieve an upper hand in this competitive market using strategies such as collaborations and acquisitions.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the volumetric display market analysis from 2021 to 2031 to identify the prevailing volumetric display market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the volumetric display market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global volumetric display market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Type

- Swept Volumetric Displays
- Holographic Displays
- Static Volumetric Displays

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By Application

- Aerospace and Defense
- Medical
- Automotive
- Communication and Entertainment
- Others

By Technology

- Digital Light Processing (DLP)
- Liquid Crystal on Silicon (LCOS)

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- UK
- France
- Spain
- Italy
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Australia
- Rest of Asia-Pacific
- LAMEA
- Brazil
- United Arab Emirates
- Saudi Arabia
- South Africa
- Rest of LAMEA
- Key Market Players
- Lumi Industries
- Voxon Photonics
- Artosci
- Holoxica
- Looking Glass
- Burton Inc.
- SeeReal Technologies S.A.
- Sony
- REALFICTION
- Alioscopy

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