

**Light Field Market By Technology (Hardware, Software), By Industry Vertical (Media and Entertainment, Healthcare, Architecture and Real Estate, Industrial, Others):
Global Opportunity Analysis and Industry Forecast, 2022-2031**

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Report description:

The global light field market is envisioned to garner \$323.0 million by 2031, growing from \$79.0 million in 2021 at a CAGR of 15.3% from 2022 to 2031. Numerous businesses that are attempting to include the light field technology in a range of products, including cameras and medical devices, make up the light field market. Light field cameras are gaining ground on the market quickly due to their expanded range of uses in the hospitality, military & defense, and entertainment industries. On March 21, 2018, it was announced that Google would pay \$40 million to acquire Lytro, one of the most prominent providers of light-field computing platforms. Owing to the development of 4D and 5D technologies in the industrial sectors, many business activities are now carried out more precisely and effectively through a visual view and inspection of the operating and functioning of machines and components.

However, some drawbacks of the light field include the absence of a developed ecosystem of hardware and software providers. The adoption of light field technology can present a number of difficulties for users and content producers with a limited ecosystem. For instance, they might only have a few options for software and hardware that can record and display light fields. Additionally, they might have trouble locating the knowledge and assistance they need to use the technology effectively. The prevalence of remote contact is changing the world as we know it, and this is changing how people consume entertainment and content. Immersive technology is combined with interactive entertainment that incorporates augmented reality, virtual reality, and mixed reality to create immersive experiences in gaming, film, and virtual & augmented reality. Due to the broad convergence of commodity technologies across numerous industries, light field technology is now a reality. Real-time holographic interaction is now possible due to the availability of sufficient computing power. With panoramic views spanning more than 180 degrees, light field videos give users access to a virtual world that is more dynamic. By showcasing a working light field video system, Google is elevating immersive media technology. Light field can be extensively used across medical imaging applications in the coming years. For instance, in medical imaging, light field can be used for analyzing any tissue sample in three dimensions

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for more accurate analysis and treatment. It demonstrates the capability of recording, reconstructing, compressing, and delivering high-quality immersive light field films that are small enough to transmit over regular Wi-Fi.

The worldwide efforts made by governments to stop the spread of COVID-19 have increased production uncertainty and a general aversion to risk in international markets. An enormous setback has been caused by the coronavirus pandemic and ensuing travel restrictions for almost every industry worldwide. Researchers have now created a laser-based sensor that can quickly identify viruses in saliva or nasal swabs at their earliest stages of infection. A 3D camera company, Orbbec, reported that hospitals in China are using its 3D products and robot-mounted cameras to reduce patient-doctor interaction. This light field imaging technique allows for the tracking of airborne virus particles in the atmosphere by capturing 3D information of the scene with a single camera and exposure. Fluorescence imaging technology was recently used by Canadian researchers in February 2020 to create COVID-19 test kits. This imaging method employing a light field can precisely identify RNA molecules, enhancing COVID viral screening and combating the pandemic.

The key players profiled in this report include Japan Display, Fathom Holografika, Light Field Lab, K-Lens, CREAL, AYE3D, Photonic Crystal, Looking Glass Factory, Dimenco, and Wootix.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the light field market analysis from 2021 to 2031 to identify the prevailing light field 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 light field 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 light field market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Technology

- Hardware
- Software

By Industry Vertical

- Media and Entertainment
- Healthcare
- Architecture and Real Estate
- Industrial
- Others

By Region

- North America
 - U.S.
 - Canada
 - Mexico
- Europe
 - Germany
 - UK
 - France
 - Spain
 - Italy
 - Rest of Europe

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- 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
- AYE3D□
- CREAL□
- Dimenco□
- Fathom Holografika□
- Japan Display Inc
- K-Lens□
- Light Field Lab
- Looking Glass Factory□
- Photonic Crystal□
- Woptix

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