

Live Cell Imaging Market by Product (Instruments, Consumables, Software, Services), Application (Cell Biology, Stem Cells, Drug Discovery), Technology (Time-lapse Microscopy, FRET, FRAP, HCS), End User (Pharma, Biotech, CROs) - Global Forecast to 2028

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Report description:

The global live cell imaging market is projected to reach USD 4.3 billion by 2028 from USD 2.7 billion in 2023, at a CAGR of 10.2% during the forecast period of 2023 to 2028. The growth of this market can be attributed to the high/growing adoption of high-content screening techniques in drug discovery. As drug discovery becomes increasingly reliant on high-throughput screening and HCS techniques, the demand for live cell imaging technology is likely to grow. This trend is expected to be particularly pronounced in the field of personalized medicine, where live cell imaging can be used to identify treatments tailored to individual patients.

"The consumables segment accounted for the second-largest share by product & service during the forecast period"
In 2022, consumables segment accounted for the second-largest share by product & service in the global live cell imaging market. Consumables include a range of products that are used in the imaging and analysis of live cells. These consumables play an important role in the live cell imaging workflow, as they are essential for sample preparation, maintenance, and analysis. Consumables used in live cell imaging include reagents, media, assay kits, and other consumables such as microplates, slides, Petri dishes, coverslips, and culture chambers. Consumables are typically disposable and need to be replenished regularly, making them an important recurring revenue stream for manufacturers. Consumables are an integral part of live cell imaging, and growth in this segment is mainly driven by the increasing demand for advanced imaging technologies and the growing adoption of live cell analysis in various research applications.

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"Europe: The second largest region in the live cell imaging market"

Europe accounted for the second-largest market for live cell imaging after North America. The European live cell imaging market has witnessed significant growth in recent years, driven by various factors that have propelled its expansion. Europe is at the forefront of developing and adopting emerging technologies in the field of live cell imaging. This includes advancements in super-resolution microscopy, high-throughput imaging, single-cell imaging, and multi-modal imaging approaches. The adoption of these innovative technologies accelerates the progress of live cell imaging research and expands its applications. Additionally, Europe offers comprehensive training and education programs in live cell imaging techniques. Universities, research institutes, and organizations provide specialized courses, workshops, and conferences to enhance the knowledge and skills of scientists and researchers. The availability of training programs promotes the adoption and utilization of live cell imaging technologies in Europe.

The primary interviews conducted for this report can be categorized as follows:

- By Respondent: Supply Side- 80% and Demand Side 20%
- By Designation: C-level - 45%, D-level - 30%, and Others - 25%
- By Region: North America -20%, Europe -10%, Asia-Pacific -55%, Latin America -10%, Middle East & Africa- 5%

List of Companies Profiled in the Report:

- Danaher (US)
- ZEISS Group (Germany)
- Nikon Corporation (Japan)
- Olympus Corporation (Japan)
- PerkinElmer Inc. (US)
- Sartorius AG (Germany)
- Agilent Technologies, Inc. (US)
- Thermo Fisher Scientific, Inc. (US)
- Etaluma, Inc. (US)
- CytoSMART Technologies (Netherlands)
- NanoEnTek Inc. (South Korea)
- GE Healthcare (US)
- Bruker Corporation (US)
- Becton, Dickinson and Company (BD) (US)
- Merck KGaA (Germany)
- Bio-Rad Laboratories, Inc. (US)
- Blue-Ray Biotech Corp. (Taiwan)
- CYTENA GmbH (Germany)
- Nanolive SA (Switzerland)
- Abberior (Germany)
- Phase Holographic Imaging (PHI) AB (Sweden)
- Cytoskeleton, Inc. (US)
- Corning Incorporated (US)
- KEYENCE Corporation (Japan)
- Aligned Genetics, Inc. (South Korea)

Research Coverage:

This report provides a detailed picture of the live cell imaging market. It aims at estimating the size and future growth potential of the market across different segments such as the product & service, application, technology, end user and region. The report also includes an in-depth competitive analysis of the key market players along with their company profiles recent developments and

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key market strategies.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges

The report provides insights on the following pointers:

- Analysis of key drivers (growing adoption of high-content screening techniques in drug discovery, rising incidence of cancer, and growing availability of funds for research), restraints (High cost of high-content screening systems), opportunities (increasing adoption of live cell imaging technologies in emerging markets, and application of HCS in personalized medicine), and challenges (maintaining cell viability and cellular environment in cell cultures, and image analysis and data management) influencing the growth of the market.
- Product and Service Development/Innovation: Detailed insights on newly launched products & services, and technological assessment of the live cell imaging market
- Market Development: Comprehensive information about lucrative markets - the report analyses the market across varied regions.
- Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the live cell imaging market
- Competitive Assessment: In-depth assessment of market shares, growth strategies and products and service offerings of leading players like Danaher (US), ZEISS Group (Germany), Nikon Corporation (Japan), Olympus Corporation (Japan), PerkinElmer Inc. (US), Sartorius AG (Germany), Agilent Technologies, Inc. (US), Thermo Fisher Scientific, Inc. (US), Etaluma, Inc. (US), CytoSMART Technologies (Netherlands), NanoEnTek Inc. (South Korea), GE Healthcare (US), Bruker Corporation (US), Becton, Dickinson and Company (BD) (US), Merck KGaA (Germany), Bio-Rad Laboratories, Inc. (US), Blue-Ray Biotech Corp. (Taiwan), CYTENA GmbH (Germany), Nanolive SA (Switzerland), Abberior (Germany), Phase Holographic Imaging (PHI) AB (Sweden), Cytoskeleton, Inc. (US), Corning Incorporated (US), KEYENCE Corporation (Japan), Aligned Genetics, Inc. (South Korea), and among others in the market.

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Live Cell Imaging Market by Product (Instruments, Consumables, Software, Services), Application (Cell Biology, Stem Cells, Drug Discovery), Technology (Time-lapse Microscopy, FRET, FRAP, HCS), End User (Pharma, Biotech, CROs) - Global Forecast to 2028

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