

Global Automated Cell Imaging System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automated Cell Imaging System market size is expected to reach \$ 569 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

In 2024, the output of automated cell imaging systems will be 1,787 units, with an average price of 221,000 USD/unit.

Automated cellular imaging systems integrate high-content image data with other experimental datasets to deliver quantitative and actionable biological insights. Consumables such as imaging reagents, washing buffers, and anti-fading agents help achieve reliable fluorescence imaging and signal stability, while environmental control modules maintain physiological temperature, pH, and oxygen levels to ensure cell viability during imaging. These systems enable time-lapse tracking of individual cells, phenotype change analysis, quantitative imaging of unlabeled live cells, and automated assessment of wound healing assays.

This article includes high-content cell imaging analysis system (HCS/HCA).

The growth of the automated cell imaging systems market is not simply driven by the replacement or upgrade of conventional microscopy equipment. More fundamentally, it reflects the transition of cell-based experiments from manual observation and endpoint measurement toward automation, continuous monitoring, and quantitative analysis. In the past, cell imaging was mainly used for experimental documentation and morphological observation, with product value concentrated in optical imaging quality. However, in current drug discovery, cell therapy, organoid research, and high-content screening workflows, users increasingly care about whether the system can generate

reproducible, quantifiable, and traceable cellular data with less manual intervention. As a result, automated cell imaging systems are evolving from standalone instruments into integrated cell experimentation platforms, and competition is shifting from hardware specifications to imaging algorithms, workflow compatibility, data management, and application-specific solutions.

On the demand side, pharmaceutical companies and CROs are key drivers of high-end automated cell imaging systems. Rising demand for phenotypic screening, cytotoxicity assessment, immune-cell killing assays, and 3D cell model evaluation in drug discovery has made high-content imaging and multiparametric analysis increasingly important. At the same time, academic research institutes, hospital-based translational research platforms, and cell therapy companies place greater emphasis on long-term live-cell monitoring, low-disturbance imaging, and cell-state evaluation. This is pushing the market toward real-time, dynamic, label-free, and 3D-model-compatible imaging capabilities.

From a competitive landscape perspective, the market has formed a structure in which high-content imaging platform vendors, live-cell dynamic imaging specialists, and general automated cell imaging suppliers compete in parallel. Molecular Devices under Danaher, with its ImageXpress series, Revvity with its Opera / Operetta series, and Yokogawa with its CellVoyager series have strong influence in high-content imaging and drug screening applications, with products emphasizing high throughput, multiparametric analysis, and complex cell model processing. Sartorius with Incucyte, Axion BioSystems with Omni, CYTENA with CELLCYTE, and Curiosis with Celloger are more focused on long-term live-cell dynamic monitoring and have strong recognition in cell proliferation, migration, toxicity, immune-cell killing, and cell culture monitoring applications. Thermo Fisher's EVOS, Agilent BioTek's Cytation / Lionheart, ZEISS, and Nikon cover broader automated cell imaging and research laboratory use cases. Overall, industry competition is no longer limited to the performance comparison of individual instruments, but is increasingly centered on product portfolio depth, application coverage, software-based analytical capabilities, and integration into customers' experimental workflows.

This report studies the global Automated Cell Imaging System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automated Cell Imaging System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and

competition, as well as details the characteristics of Automated Cell Imaging System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automated Cell Imaging System total production and demand, 2021-2032, (Units)

Global Automated Cell Imaging System total production value, 2021-2032, (USD Million)

Global Automated Cell Imaging System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Automated Cell Imaging System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Automated Cell Imaging System domestic production, consumption, key domestic manufacturers and share

Global Automated Cell Imaging System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Automated Cell Imaging System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Automated Cell Imaging System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Automated Cell Imaging System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Danaher, Thermo Fisher Scientific, Agilent, Revvity, Sartorius AG, ZEISS, Yokogawa Electric, Nanolive, Axion BioSystems, CYTENA, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automated Cell Imaging System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by

manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automated Cell Imaging System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automated Cell Imaging System Market, Segmentation by Type:

Basic Automated Cell Imaging Systems

HCS/HCA

Automated Live-Cell Imaging Systems

Cell Imaging Plate Readers / Image-Based Cell Analysis Systems

Global Automated Cell Imaging System Market, Segmentation by Application:

Pharmaceutical & Biotechnology

CROs, CDMOs & Contract Research Organizations

Academic & Research Institutes

Hospitals & Medical Centers

Cell & Gene Therapy / Regenerative Medicine Companies

Other

Companies Profiled:

Danaher

Thermo Fisher Scientific

Agilent

Rewvity

Sartorius AG

ZEISS

Yokogawa Electric

Nanolive

Axion BioSystems

CYTENA

Curiosis

NanoEnTek

Blue-Ray Biotech

Etaluma

World Precision Instruments

PHI / Altium

Live Cell Instrument

Tecan

Nikon Instruments Inc

Key Questions Answered:

1. How big is the global Automated Cell Imaging System market?
2. What is the demand of the global Automated Cell Imaging System market?
3. What is the year over year growth of the global Automated Cell Imaging System market?
4. What is the production and production value of the global Automated Cell Imaging System market?
5. Who are the key producers in the global Automated Cell Imaging System market?
6. What are the growth factors driving the market demand?

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