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Small Animal Imaging (In-Vivo) Market Outlook 2025-2034: Market Share, and Growth Analysis By Component (Micro-MRI, Optical Imaging, Nuclear Imaging, Other Components), By Application (Monitoring Treatment Response, Bio Distribution, Determining Drug or Target Engagement, Cancer Cell Detection, Biomarkers, Longitudinal Studies, Epigenetics), By End User

https://marketpublishers.com/r/SBE6321BA9A5EN.html
Date: October 2025
Pages: 160
Price: US$ 3,950.00 (Single User License)
ID: SBE6321BA9A5EN

Abstracts

The Small Animal Imaging (In-Vivo) Market is valued at USD 4 billion in 2025 and is projected to grow at a CAGR of 13.7% to reach USD 12.7 billion by 2034.The small animal imaging (in-vivo) market serves a critical role in preclinical research, enabling real-time visualization and quantification of biological processes in living organisms. These imaging systems—such as micro-MRI, micro-CT, micro-PET, micro-SPECT, optical imaging, and ultrasound—are predominantly used in drug discovery, oncology, neurology, and cardiovascular research. They allow researchers to assess disease progression, treatment efficacy, and biodistribution of therapeutics in small animals, often mice or rats, without the need for invasive procedures. As pharmaceutical companies and academic institutions ramp up investments in translational research and precision medicine, demand for high-resolution, multimodal imaging technologies continues to rise. The integration of imaging data into predictive models and AI-driven platforms is further expanding the utility of in-vivo imaging in reducing drug development timelines and improving early-stage decision-making. Despite the relatively high equipment and operational costs, the ability to obtain longitudinal data from the same subject over time justifies the investment, particularly for complex and chronic disease models. The small animal imaging (in-vivo) market witnessed considerable

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technological progress and broader adoption across both industry and academia. Multimodal systems that combine optical, nuclear, and magnetic imaging were in high demand, as researchers sought holistic datasets to enhance study accuracy. Vendors introduced systems with improved spatial resolution, faster acquisition times, and enhanced sensitivity, particularly in PET and SPECT modalities. AI-powered image analysis tools gained traction, enabling more efficient processing and interpretation of imaging data. The rising use of genetically modified animal models also fueled demand for imaging tools capable of non-invasive tracking of cellular and molecular activity. Additionally, funding for preclinical research remained robust, especially in oncology and neuroscience, bolstering equipment procurement by research institutions. Strategic collaborations between imaging equipment manufacturers and pharmaceutical companies became more common, focusing on co-developing protocols and applications to optimize preclinical pipeline development. Meanwhile, regulatory bodies increased scrutiny of animal welfare, prompting researchers to adopt imaging methods that minimize the need for euthanasia and reduce overall animal usage. The small animal imaging (in-vivo) market is expected to expand through integration with digital pathology, AI-based disease modeling, and increased demand for personalized medicine research. Imaging systems will become more compact, user-friendly, and cost-effective, enabling wider access for mid-sized laboratories and contract research organizations (CROs). Cloud-based imaging analysis and data sharing platforms are anticipated to streamline collaborative projects and multi-center studies. The focus will shift further toward real-time functional imaging, including metabolic and immunological processes, offering more dynamic insights into treatment effects and disease mechanisms. Growth in cell and gene therapy research will also stimulate demand for in-vivo imaging to track vector delivery and gene expression in live models. However, the market will continue to face pressure to balance high-performance capabilities with affordability and compliance, particularly in light of evolving animal ethics regulations and increasing demand for 3Rs (Replacement, Reduction, Refinement) principles in research environments.

Key Insights Small Animal Imaging (In-Vivo) Market

AI-Driven Image Analysis: Artificial intelligence is enhancing image processing and interpretation, allowing researchers to identify subtle patterns, automate segmentation, and speed up analysis, thus reducing time and manual error in preclinical studies.

Multimodal Imaging Systems: Platforms combining PET, CT, and optical imaging are gaining popularity, offering complementary insights that improve

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data richness and enable comprehensive evaluations of complex biological processes in live animal models.

Integration with Cloud and Data Platforms: Cloud-based systems are facilitating remote access, collaboration, and large-scale data management, making it easier for global research teams to conduct and interpret multi-site studies with consistent standards.

Miniaturization and Cost-Reduction: Compact, affordable imaging systems are being developed to meet the needs of smaller research labs, democratizing access to advanced preclinical imaging without compromising on essential performance features.

Imaging for Gene and Cell Therapy Monitoring: The rise of advanced therapies has created new demand for in-vivo tools capable of tracking biodistribution, gene expression, and cellular behavior post-delivery in real time.

Growing Preclinical Research Activity: Pharmaceutical and biotech companies are increasing investments in preclinical studies to support faster drug development, driving demand for precise, longitudinal imaging systems that reduce animal usage while improving data quality.

Technological Advancements in Imaging Modalities: Improvements in resolution, sensitivity, and speed are making in-vivo imaging more powerful and applicable to a broader range of research areas, including neurodegenerative and metabolic diseases.

Increased Adoption of Personalized Medicine Approaches: In-vivo imaging plays a key role in tracking individual responses to therapy in animal models, supporting the development of personalized treatment strategies in oncology, immunology, and rare diseases.

Supportive Funding and Institutional Investments: Government grants, academic funding, and private sector partnerships are fueling equipment purchases and technology upgrades across research institutes and CROs globally.

High Equipment Costs and Maintenance Needs: Despite advancements, the significant capital and operational costs associated with in-vivo imaging systems remain a barrier for smaller institutions, necessitating leasing models, grants, or

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shared facility strategies to widen access.

Small Animal Imaging (In-Vivo) Market Segmentation

By Component

- Micro-MRI
- Optical Imaging
- Nuclear Imaging
- Other Components

By Application

- Monitoring Treatment Response
- Bio Distribution
- Determining Drug or Target Engagement
- Cancer Cell Detection
- Biomarkers
- Longitudinal Studies
- Epigenetics

By End User

- Veterinary Clinics
- Veterinary Hospitals

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Veterinary Institutes and Research Centers

Key Companies Analysed

CESCO Bioengineering Co Ltd

PBS Biotech Inc

Solida Biotechnology GmbH

ABEC Inc.

Eppendorf AG

Sartorius Stedim Biotech Sa Ltd

Danaher Corporation Ltd

Thermo Fisher Scientific Inc.

GE Healthcare

Merck Kgaa (Merck Millipore) Pvt Ltd

Distek Inc

Celltainer Biotech Bv Pvt.Ltd

Getinge AB

Pall Corporation

G&G Technologies Inc

SATAKE MultiMix Corporation

Bio-Age Equipment & Service Pvt.Ltd

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Entegris Inc.

Avantor Inc.

Celartia

Cell Culture Company

Cytiva

Solaris Biotechnology srl.

Cellexus International Ltd.

Distek Inc.

Infors AG

OmniBRx Biotechnologies

Xcellerex Inc.

Applikon Biotechnology Inc.

BBI-Biotech GmbH

Small Animal Imaging (In-Vivo) Market Analytics

The report employs rigorous tools, including Porter’s Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

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Small Animal Imaging (In-Vivo) Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Small Animal Imaging (In-Vivo) market data and outlook to 2034

United States

Canada

Mexico

Europe — Small Animal Imaging (In-Vivo) market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

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Sweden

Asia-Pacific — Small Animal Imaging (In-Vivo) market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Small Animal Imaging (In-Vivo) market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Small Animal Imaging (In-Vivo) market data and outlook to 2034

Brazil

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Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Small Animal Imaging (In-Vivo) value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Small Animal Imaging (In-Vivo) industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

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Your Key Takeaways from the Small Animal Imaging (In-Vivo) Market Report

- Global Small Animal Imaging (In-Vivo) market size and growth projections (CAGR), 2024-2034
- Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Small Animal Imaging (In-Vivo) trade, costs, and supply chains
- Small Animal Imaging (In-Vivo) market size, share, and outlook across 5 regions and 27 countries, 2023-2034
- Small Animal Imaging (In-Vivo) market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034
- Short- and long-term Small Animal Imaging (In-Vivo) market trends, drivers, restraints, and opportunities
- Porter’s Five Forces analysis, technological developments, and Small Animal Imaging (In-Vivo) supply chain analysis
- Small Animal Imaging (In-Vivo) trade analysis, Small Animal Imaging (In-Vivo) market price analysis, and Small Animal Imaging (In-Vivo) supply/demand dynamics
- Profiles of 5 leading companies—overview, key strategies, financials, and products
- Latest Small Animal Imaging (In-Vivo) market news and developments

Additional Support

With the purchase of this report, you will receive

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** The updated report will be delivered within 3 working days*

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Contents

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5. GLOBAL SMALL ANIMAL IMAGING (IN-VIVO) MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034

5.1 World Small Animal Imaging (In-Vivo) Market Size, Potential and Growth Outlook, 2024- 2034 ($ billion)
5.1 Global Small Animal Imaging (In-Vivo) Sales Outlook and CAGR Growth By Component, 2024- 2034 ($ billion)
5.2 Global Small Animal Imaging (In-Vivo) Sales Outlook and CAGR Growth By Application, 2024- 2034 ($ billion)
5.3 Global Small Animal Imaging (In-Vivo) Sales Outlook and CAGR Growth By End User, 2024- 2034 ($ billion)
5.4 Global Small Animal Imaging (In-Vivo) Market Sales Outlook and Growth by Region, 2024- 2034 ($ billion)

6. ASIA PACIFIC SMALL ANIMAL IMAGING (IN-VIVO) INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK

6.1 Asia Pacific Small Animal Imaging (In-Vivo) Market Insights, 2025
6.2 Asia Pacific Small Animal Imaging (In-Vivo) Market Revenue Forecast By Component, 2024- 2034 (USD billion)
6.3 Asia Pacific Small Animal Imaging (In-Vivo) Market Revenue Forecast By Application, 2024- 2034 (USD billion)
6.4 Asia Pacific Small Animal Imaging (In-Vivo) Market Revenue Forecast By End User, 2024- 2034 (USD billion)
6.5 Asia Pacific Small Animal Imaging (In-Vivo) Market Revenue Forecast by Country, 2024- 2034 (USD billion)
6.5.1 China Small Animal Imaging (In-Vivo) Market Size, Opportunities, Growth 2024-2034
6.5.2 India Small Animal Imaging (In-Vivo) Market Size, Opportunities, Growth 2024-2034
6.5.3 Japan Small Animal Imaging (In-Vivo) Market Size, Opportunities, Growth 2024-2034
6.5.4 Australia Small Animal Imaging (In-Vivo) Market Size, Opportunities, Growth 2024- 2034

7. EUROPE SMALL ANIMAL IMAGING (IN-VIVO) MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034

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8. NORTH AMERICA SMALL ANIMAL IMAGING (IN-VIVO) MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034

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9. SOUTH AND CENTRAL AMERICA SMALL ANIMAL IMAGING (IN-VIVO) MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS

10. MIDDLE EAST AFRICA SMALL ANIMAL IMAGING (IN-VIVO) MARKET OUTLOOK AND GROWTH PROSPECTS

11. SMALL ANIMAL IMAGING (IN-VIVO) MARKET STRUCTURE AND COMPETITIVE LANDSCAPE

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