

# **Multi Channel Animal Anesthesia Machine Market Forecasts to 2034 – Global Analysis By Type (Mobile Type and Desktop Type), Animal Type (Small Animals, Exotic Animals and Large Animals), Application and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Multi Channel Animal Anesthesia Machine Market is accounted for \$0.4 billion in 2026 and is expected to reach \$0.8 billion by 2034 growing at a CAGR of 8.9% during the forecast period. A Multi Channel Animal Anesthesia Machine is a specialized medical device designed for administering precise and simultaneous anesthesia to multiple animal subjects in research and veterinary settings. This sophisticated equipment offers tailored control over anesthesia delivery, accommodating various species and sizes, which enable researchers and veterinarians to conduct experiments and procedures on diverse animals, ensuring accurate and humane anesthesia management.

According to the WHO, cancer is the leading cause of extinctionaly and was responsible for an estimated 10 million deaths in 2020.

Market Dynamics:

Driver:

Growing awareness of animal welfare

Multi-channel animal anesthesia machines play a crucial role by offering precise control over anesthesia administration, minimizing stress and discomfort for animals undergoing medical procedures. There are increasing societal concerns about the

ethical treatment of animals in research and veterinary practices that prioritize the reduction of pain and distress in laboratory and veterinary settings. Furthermore, as awareness increases, adherence to ethical guidelines and the promotion of responsible and humane animal experimentation have become key considerations for researchers, veterinarians, and institutions, which are propelling this market growth.

Restraint:

Cost constraints

Higher manufacturing costs may result from the complex engineering, high-quality parts, and strict adherence to safety regulations involved in the production of multi-channel animal anesthesia machines. The specific market for animal anesthesia machines and its constrained economies of scale can also have an effect on the cost structure. In addition, for certain customers, the machines' high initial costs, continuous maintenance requirements, and requirement for specialized training to operate them can be financially challenging, thereby hindering this market expansion.

Opportunity:

Technological advancements

Automation and integration of smart technologies contribute to improved safety, allowing researchers and veterinarians to monitor and adjust anesthesia parameters with greater accuracy. Continuous innovation in the design and functionality of these anesthesia systems enhances their capabilities, efficiency, and user-friendliness. Furthermore, integration with digital platforms and connectivity solutions enables seamless data transfer and remote monitoring, enhancing overall workflow efficiency that not only meets the diverse needs of researchers and veterinarians but also contributes to the advancement of humane and ethical practices in animal care and experimentation, which are driving this market size.

Threat:

Limited standardization

The absence of standardized protocols also complicates the training and education of users, as procedures may differ between machines from various manufacturers. The absence of universally accepted standards for the design, calibration, and operation of

multi-channel anesthesia machines can create challenges for manufacturers, users, and regulatory bodies. Therefore, this lack of uniformity can impede the seamless exchange of information and best practices among researchers, veterinarians, and institutions, affecting the overall efficiency of operations.

### Covid-19 Impact

The COVID-19 pandemic had various detrimental effects on the market for multichannel animal anesthesia machines. The disruptions in the supply chain, restrictions on non-essential activities, and economic uncertainties significantly affected the market dynamics. Many research institutions and veterinary facilities faced budget constraints and redirected resources toward addressing the immediate challenges posed by the pandemic, leading to a slowdown in equipment purchases and upgrades. In addition, veterinary clinics, particularly those handling elective procedures, witnessed a decrease in caseloads, impacting the need for sophisticated anesthesia equipment and thereby impeding this market size.

The exotic animals segment is expected to be the largest during the forecast period

The exotic animals segment is estimated to hold the largest share. These are the unique anesthesia requirements of diverse species, ensuring precise control and monitoring during procedures. These machines offer a multi-faceted approach, accommodating various animal sizes and species-specific physiological needs, ranging from small rodents to large non-domesticated mammals. Furthermore, advancements in technology have led to the development of sophisticated anesthesia delivery systems that enable efficient and tailored anesthesia management in experimental settings, thereby propelling this segment's growth.

The scientific research laboratory segment is expected to have the highest CAGR during the forecast period

The scientific research laboratory segment is anticipated to have highest CAGR during the forecast period, due to a significant upswing as a critical component in advancing biomedical and pharmaceutical research involving animal subjects. Researchers utilize these machines to maintain anesthesia across multiple subjects simultaneously, facilitating studies that require intricate experimental designs and varied animal models. In addition, these provide a sophisticated and adjustable platform, allowing scientists to customize anesthesia delivery based on the unique physiological needs of different species using high-quality, multi-functional anesthesia solutions, which are boosting this

segment's expansion.

Region with largest share:

Europe commanded the largest market share during the extrapolated period owing to advancements in veterinary medicine, research, and a heightened focus on animal welfare. Countries including the UK, Germany, Italy, France, and Spain are increasingly adopting multi-channel anesthesia machines for diverse applications. These are capable of accommodating various animal sizes and species-specific requirements and align with the region's commitment to humane and responsible animal experimentation involving veterinary practices, biomedical research, and academic studies, which are driving this region's growth.

Region with highest CAGR:

North America is expected to witness highest CAGR over the projection period. These sophisticated devices provide precise and simultaneous control over anesthesia administration, accommodating diverse animal species, including companion animals, laboratory animals, and wildlife. Key players such as Kent Scientific Corporation, Harvard Apparatus, RWD Life Science, and SurgiVet contribute to biomedical studies and veterinary research to introduce advanced features and functionalities. Additionally, the prevalence of chronic diseases in companion animals and the increasing importance of animal models in drug development contribute to the sustained growth that is boosting this region's growth.

Key players in the market

Some of the key players in the Multi Channel Animal Anesthesia Machine Market include Animalab, Scintica, Scitech Korea Inc., RWD Life Science, BiosebLab, Veterian Key, Parkland Scientific, SOMNI Scientific, ConductScience, World Precision Instruments, Dolphinmed, Comen, Yuyan Instruments, Bilead Biosci, Midmark Corporation and Hallowell EMC.

Key Developments:

In October 2023, World Precision Instruments (WPI) is excited to expand the capability of the EVOM™ Auto, now offering both 24 and 96 multiwell capacity in one single platform.

In October 2023, Scintica is thrilled to announce the appointment of Dr. J?rg Hamm as a new Preclinical Imaging Product Specialist in our Netherlands office, fortifying our commitment to advancing scientific research and medicine.

In April 2023, World Precision Instruments (WPI) is excited to launch the newest member to its EVOM™ family of products, the EVOM™ Auto.

In February 2023, Scintica Instrumentation Inc. is excited to announce its exclusive distribution agreement with Poietis, manufacturer of the New Generation Bioprinting (NGB) system designed for translational research and regenerative medicine applications.

#### Types Covered:

Mobile Type

Desktop Type

#### Animal Types Covered:

Small Animals

Exotic Animals

Large Animals

#### Applications Covered:

Pet Hospital

Scientific Research Laboratory

Other Applications

#### Regions Covered:

## North America

US

Canada

Mexico

## Europe

Germany

UK

Italy

France

Spain

Rest of Europe

## Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

## South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

#### Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

##### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

##### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

##### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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