

# Cardiovascular Ultrasound System Market to Reach USD 2.5 Billion by 2033, Driven by Rising Heart Disease Cases

*The global cardiovascular ultrasound system market is projected to grow from USD 1.5 billion in 2024 to USD 2.5 billion by 2033*

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/EINPresswire.com/ -- The Global [Cardiovascular Ultrasound System Market](#) Research Report added by Emergen Research to its expanding repository is an all-inclusive document containing insightful data about the Cardiovascular Ultrasound System

market and its key elements. The report is formulated through extensive primary and secondary research and is curated with an intent to offer the readers and businesses a competitive edge over other players in the industry. The report sheds light on the minute details of the Cardiovascular Ultrasound System industry pertaining to growth factors, opportunities and lucrative business prospects, regions showing promising growth, and forecast estimation till 2033

The global cardiovascular ultrasound system market is projected to grow from USD 1.5 billion in 2024 to USD 2.5 billion by 2033, with an estimated CAGR of 6.0%. Cardiovascular ultrasound systems, also known as echocardiograms, are widely used for diagnosing and monitoring heart diseases, which continue to be the leading cause of death worldwide.

The increasing prevalence of cardiovascular diseases, along with advancements in imaging technology, is driving the demand for these systems. According to the World Health Organization (WHO), cardiovascular diseases account for 32% of global deaths annually. In the U.S. alone, the American Heart Association reports that approximately 121.5 million adults suffer from some form of cardiovascular disease, highlighting the need for advanced diagnostic solutions.

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In response to this demand, key players in the industry are introducing new technologies. In February 2024, Siemens Healthineers launched an AI-powered portable cardiovascular ultrasound system, enhancing precision in remote and critical care settings. Similarly, Philips introduced 3D and 4D imaging capabilities in late 2023, significantly improving non-invasive diagnostic procedures. The integration of artificial intelligence (AI) and machine learning into these systems is helping improve diagnostic accuracy and operational efficiency, further fueling market growth.

Healthcare expenditure and awareness campaigns promoting early diagnosis are also boosting market expansion. Emerging economies are witnessing rising demand for cardiovascular ultrasound systems due to improving healthcare infrastructure and increasing patient awareness. Additionally, portable and handheld ultrasound devices are gaining traction in remote areas where access to advanced healthcare facilities is limited. Regulatory approvals are accelerating the entry of new and innovative products, such as Canon Medical Systems' FDA-cleared AI-enhanced ultrasound platform in 2023, which offers better imaging and clinical outcomes.

#### Key Market Drivers: Increasing Heart Disease Cases and Technological Progress

The rising number of heart disease cases is one of the primary drivers of the cardiovascular ultrasound system market. The European Society of Cardiology reported a 10% increase in heart failure cases across Europe in 2023, leading to a higher demand for early detection and monitoring tools. In response to this growing need, medical technology companies are launching advanced diagnostic devices. In March 2023, GE HealthCare introduced a transthoracic echocardiogram machine featuring improved Doppler imaging technology to enhance early detection of heart conditions.

Stress echocardiograms are also gaining popularity due to their role in evaluating coronary artery diseases. The American College of Cardiology found that stress echocardiography reduced unnecessary hospital admissions by 15% in 2023, supporting its increased adoption in healthcare facilities. Furthermore, the industry has seen a shift from traditional 2D imaging to 3D and 4D imaging, which allows for a more detailed visualization of heart structures and functions, improving overall diagnostic accuracy. The British Cardiovascular Society reported an 18% rise in 3D imaging adoption in cardiology practices in 2023.

Innovations in AI-driven imaging technology continue to reshape the market. In March 2024, Canon Medical Systems introduced a 4D cardiac ultrasound system that provides real-time heart imaging during surgeries. Similarly, Esaote launched a new Doppler imaging device optimized for pediatric cardiology in November 2023, showcasing the industry's continuous advancements.

#### Challenges: High Costs and Limited Skilled Workforce

Despite technological progress, the high cost of cardiovascular ultrasound systems remains a significant challenge, particularly for small and mid-sized healthcare facilities. A 2023 study by the Global Cardiology Alliance revealed that 30% of hospitals in low-income regions delayed upgrading their equipment due to financial constraints. Additionally, maintenance and operational costs remain high, with the International Federation of Cardiology reporting in December 2023 that service contracts for 3D and 4D ultrasound systems can amount to 20% of the device's initial cost per year.

The shortage of skilled professionals also poses a challenge. The European Heart Network estimated in 2023 that the number of trained echocardiographers in Europe had decreased by 12% due to workforce aging and limited training programs. To address this issue, companies like Mindray have partnered with international healthcare organizations to offer certification courses for operating 4D ultrasound machines, though a widespread training infrastructure is still needed.

**Market Segmentation: Transthoracic Echocardiograms Lead, Stress Echocardiograms on the Rise**

The cardiovascular ultrasound system market is segmented based on test type, including transthoracic echocardiograms (TTE), transesophageal echocardiograms, stress echocardiograms, and other specialized echocardiograms. In 2024, transthoracic echocardiograms dominated the market due to their non-invasive nature, widespread availability, and effectiveness in diagnosing various cardiovascular conditions such as valvular diseases and heart failure. According to the American Society of Echocardiography, TTE accounts for approximately 70% of all echocardiographic procedures worldwide.

Meanwhile, stress echocardiograms are expected to be the fastest-growing segment over the forecast period, driven by the increasing prevalence of coronary artery diseases. The European Society of Cardiology reported an 18% rise in stress echocardiography usage between 2022 and 2024, as it offers higher sensitivity than traditional stress tests for diagnosing myocardial ischemia. AI integration is also boosting this segment, with GE HealthCare launching its AI-based stress echocardiogram system in September 2023 to enhance diagnostic accuracy and workflow efficiency.

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**Competitive Terrain:**

The global Cardiovascular Ultrasound System industry is highly consolidated owing to the presence of renowned companies operating across several international and local segments of the market. These players dominate the industry in terms of their strong geographical reach and a large number of production facilities. The companies are intensely competitive against one

another and excel in their individual technological capabilities, as well as product development, innovation, and product pricing strategies.

Some major companies included in the Cardiovascular Ultrasound System market report are:

Siemens Healthineers

Philips Healthcare

GE HealthCare

Canon Medical Systems

Esaote

Hitachi Healthcare

Mindray Medical

Samsung Medison

Boston Scientific

Fujifilm Holdings

The report further divides the Cardiovascular Ultrasound System market into key segments such as types, applications, end-user industries, technologies, and key regions of the market. The report also sheds light on the segment and region exhibiting promising growth in the Cardiovascular Ultrasound System market.

By Technology Outlook (Revenue, USD Billion; 2020-2033)

2D

3D & 4D

Doppler Imaging

By Device Display Outlook (Revenue, USD Billion; 2020-2033)

Color Display

Black & White (B/W) Display

By End User Outlook (Revenue, USD Billion; 2020-2033)

Hospitals/Cardiology Centers

Ambulatory/Home Care

Other End Users (Research Institutes, Medical Device and Pharmaceutical Companies)

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Regional Outlook:

North America (the U.S., Canada, Mexico)

Europe (the U.K., Germany, France, Italy)

Asia Pacific (India, China, Japan, Korea)

Latin America (Brazil, Argentina, Ecuador, Chile)

Middle East & Africa (Egypt, Turkey, Saudi Arabia, Iran)

Key Questions Answered by the Report:

Which region is expected to dominate the market in the coming years?

What are the recent technological and product advancements occurring in the market?

What are the key strategies adopted by the prominent players in the Cardiovascular Ultrasound System market?

What are the key product types and applications of the Cardiovascular Ultrasound System industry?

What is the outcome of SWOT analysis and Porter's Five Forces analysis?

How is the competitive landscape of the Cardiovascular Ultrasound System market?

Who are the key players in the industry?

What is the growth rate of the industry over the coming years?

What will be the valuation of the Cardiovascular Ultrasound System Market by 2033?

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