Global Automated External Defibrillators Market Set to Reach USD 2.10 Billion by 2034

Rising awareness of cardiac health and government initiatives drive market growth

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VANCOUVER, BRITISH COLUMBIA, CANADA, September 10, 2025 /EINPresswire.com/ -- The global market for automated external defibrillators (AEDs) is projected to grow steadily over the next decade, rising from USD 1.33 billion in 2024 to USD 2.10 billion by 2034. This reflects a compound annual growth rate (CAGR) of 4.70%, according to the latest industry analysis.

The market's growth is strongly supported by increasing public awareness of cardiac health and the urgent need for timely intervention in sudden cardiac arrest cases. Cardiovascular diseases remain the world's leading cause of death, accounting for around 17.9 million deaths annually, according to the World Health Organization. This alarming figure has encouraged governments and health organizations to expand public access defibrillation programs and strengthen emergency response systems.

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In the United States, the Public Access Defibrillation (PAD) program has contributed to a 12% year-over-year increase in AED installations in public spaces such as schools, airports, and sports facilities. Similarly, European countries including the UK and Germany have taken steps to expand AED access through large-scale initiatives. Public funding and regulatory reforms in both developed and emerging economies are further improving the availability of life-saving devices.

Technological advancements are also reshaping the AED market. The introduction of artificial intelligence (AI) and Internet of Things (IoT) features in AEDs has enhanced their efficiency and ease of use. AI-enabled AEDs now provide real-time feedback and voice guidance to users, while IoT connectivity allows for remote monitoring and timely maintenance to ensure devices are always ready. McKinsey & Company projects that IoT adoption in healthcare will grow by 20%

annually, a trend that will further support AED adoption

Top 10 Companies

Philips Healthcare

Zoll Medical Corporation

Stryker Corporation

Nihon Kohden Corporation

Mindray Medical International Limited

Schiller AG

Cardiac Science Corporation

Physio-Control, Inc.

Defibtech, LLC

HeartSine Technologies

.Among product types, portable AEDs are expected to lead the market and register the fastest growth rate. Their ease of use and increasing adoption in non-hospital settings, including workplaces, homes, and public areas, make them the most preferred choice. The demand is also rising for wearable AEDs, which are designed to provide immediate intervention in high-risk patients.

North America currently dominates the market, supported by strong healthcare infrastructure, government funding, and established public access defibrillation programs. However, Asia Pacific is forecasted to experience the fastest growth over the coming decade. Expanding healthcare infrastructure, rising public health initiatives, and increasing investments from both governments and private organizations are driving demand across countries such as China, India, and Japan.

Despite the positive outlook, the market faces challenges. Regulatory approval processes for AEDs remain complex and costly. For example, in the United States, the Food and Drug Administration requires extensive clinical testing for AED approvals, which can delay new product launches. The average cost of bringing a medical device to market is around USD 31 million, with compliance costs accounting for a large portion.

Operational issues also limit wider AED deployment. Regular maintenance, including battery replacements, is critical for ensuring device readiness. Yet, surveys indicate that nearly 30% of public-access AEDs may not function due to poor maintenance. High costs further restrict adoption in low-income regions, where healthcare budgets remain limited.

Key players in the AED market include Philips Healthcare, Zoll Medical Corporation, and Stryker Corporation. These companies are focusing on product innovation, partnerships, and technological integration to strengthen their positions. Recent product launches, such as Philips' portable AEDs with advanced connectivity features, highlight the industry's direction toward user-friendly, reliable, and connected devices.

Sustainability is also becoming an important focus, with manufacturers increasingly turning to eco-friendly materials and energy-efficient designs to reduce environmental impact.

Automated External Defibrillators Market Segmentation

By Product Type

Portable AEDs

Semi-automatic AEDs

Fully automatic AEDs

By Application

Hospitals

Public Access

Home Care

Emergency Medical Services

By End User

Hospitals and Clinics

Public Access Settings

Home Care Settings

Pre-hospital Care

By Technology

Wearable AEDs

Conventional AEDs

By Distribution Channel

Direct Sales

Distributors

Online Retail

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Overall, the AED market is set for steady growth over the next decade, driven by rising cardiovascular health concerns, public awareness campaigns, and rapid technological innovation. While regulatory and cost-related challenges remain, continued government support and private sector innovation are expected to accelerate the availability of these life-saving devices worldwide.

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