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Global Wearable Ultrasound Devices Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Wearable Ultrasound Devices market size was valued at US$ 31.90 million in 2025 and is forecast to a readjusted size of US$ 160 million by 2032 with a CAGR of 24.4% during review period.

Wearable ultrasound devices are body attached ultrasound medical electronic systems designed to remain fixed on the human body through patches, straps, flexible probes or lightweight wearable modules for continuous or repeatable ultrasound monitoring and therapy applications. Core product forms mainly include wearable Doppler ultrasound patches, continuous hemodynamic monitoring patches, flexible ultrasound imaging patches and wearable therapeutic ultrasound systems. Key technologies involve piezoelectric transducer arrays, flexible electronics integration, miniaturized ultrasound packaging, low power driving circuits, wireless communication modules and intelligent signal processing algorithms. Major manufacturing processes include flexible piezoelectric material preparation, MEMS or micro transducer fabrication, flexible PCB integration, ergonomic encapsulation and low power system optimization. The devices are mainly used for blood flow monitoring, cardiovascular assessment, tissue imaging, remote patient monitoring and ultrasound based rehabilitation therapy in ICU monitoring, chronic disease management, rehabilitation and home healthcare applications. In 2025, the global industry average gross margin was approximately 55% to 70%, while the average product price ranged from approximately USD 300 to USD 2500 per unit.

Wearable ultrasound devices remain an emerging segment within the broader medical electronics and flexible healthcare device industry, with commercialization still in the early stage rather than mass scale deployment. The technology is gradually

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transitioning from laboratory level flexible ultrasound prototypes toward clinically validated continuous monitoring and home healthcare applications. Upstream supply chains are mainly centered around flexible piezoelectric materials, miniaturized ultrasound transducers, low power semiconductor components and wireless communication modules. Midstream activities focus on wearable system integration, ergonomic packaging and AI based signal processing platforms, while downstream demand is concentrated in ICU hemodynamic monitoring, rehabilitation therapy, chronic disease management and remote home healthcare. Growing demand for continuous patient monitoring and aging related healthcare management is steadily improving the long term adoption outlook for wearable ultrasound systems.

The current competitive landscape is still dominated by North American companies due to their advantages in flexible electronics, biomedical engineering, AI healthcare software and medical device regulatory ecosystems. Commercialization efforts are primarily concentrated in wearable Doppler ultrasound patches and wearable therapeutic ultrasound systems, with ICU blood flow monitoring and home rehabilitation therapy representing the most mature application scenarios. Compared with traditional ultrasound equipment, wearable ultrasound systems require significantly higher standards in miniaturization, long duration wearing comfort, low power consumption and signal stability under dynamic body movement conditions. As a result, the key technological barriers are concentrated in flexible transducer reliability, continuous attachment performance and real time signal processing capability.

The industry is expected to maintain a relatively high growth trajectory over the next several years, although the total addressable market is still limited in the short term. Healthcare systems worldwide are increasingly supporting remote patient monitoring, outpatient management and intelligent continuous monitoring solutions, while investment activity in flexible medical electronics and AI assisted healthcare platforms remains active. Continuous improvements in flexible piezoelectric materials, MEMS ultrasound manufacturing processes and edge AI semiconductor technologies are expected to accelerate commercialization. Over time, wearable ultrasound devices are likely to expand beyond ICU and specialty care applications into sports health, preventive screening and long term chronic disease management, although the industry still faces challenges including lengthy clinical validation cycles, reimbursement limitations and high manufacturing costs for large scale production.

This report is a detailed and comprehensive analysis for global Wearable Ultrasound Devices market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Technology Route and by Application. As the

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market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Wearable Ultrasound Devices market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Wearable Ultrasound Devices market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Wearable Ultrasound Devices market size and forecasts, by Technology Route and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Wearable Ultrasound Devices market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Wearable Ultrasound Devices

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Wearable Ultrasound Devices market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Flosonics Medical, ZetrOZ Systems, Sonus Microsystems, Pulsenmore Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities,

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new product launches or approvals.

Market Segmentation

Wearable Ultrasound Devices market is split by Technology Route and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Technology Route, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Technology Route

- Piezoelectric Ultrasound Systems
- CMUT-based Ultrasound Systems
- PMUT-based Ultrasound Systems
- Flexible Ultrasound Electronics
- AI-assisted Ultrasound Systems
- Others

Market segment by Form

- Wearable Ultrasound Patch
- Wearable Ultrasound Band / Strap
- Body-mountable Probe Assembly
- Others

Market segment by Application

- ICU Monitoring

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Cardiovascular Monitoring

Rehabilitation Therapy

Chronic Disease Management

Home Healthcare

Sports Medicine

Others

Major players covered

Flosonics Medical

ZetrOZ Systems

Sonus Microsystems

Pulsenmore Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

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The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Wearable Ultrasound Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Wearable Ultrasound Devices, with price, sales quantity, revenue, and global market share of Wearable Ultrasound Devices from 2021 to 2026.

Chapter 3, the Wearable Ultrasound Devices competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Wearable Ultrasound Devices breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Technology Route and by Application, with sales market share and growth rate by Technology Route, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Wearable Ultrasound Devices market forecast, by regions, by Technology Route, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Wearable Ultrasound Devices.

Chapter 14 and 15, to describe Wearable Ultrasound Devices sales channel, distributors, customers, research findings and conclusion.

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