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Global Handheld Ultrasound Devices Market Size Study, by Technology (2D Ultrasound, 3D/4D Ultrasound, Doppler Ultrasound), by Application (Obstetrics/Gynecology, Cardiovascular, Urology, Gastroenterology, Musculoskeletal, Trauma, Others), by End Use (Hospitals, Primary Clinics, Others), and Regional Forecasts 2022-2032

https://marketpublishers.com/r/G6EC2C0EFE32EN.html
Date: March 2025
Pages: 285
Price: US$ 3,218.00 (Single User License)
ID: G6EC2C0EFE32EN

Abstracts

The Global Handheld Ultrasound Devices Market was valued at approximately USD 299.7 million in 2023 and is anticipated to grow at a CAGR of 5.74% over the forecast period 2024-2032. The increasing demand for point-of-care diagnostics (PoCUS) and the rising incidence of chronic diseases such as cardiovascular disorders, cancer, and gastrointestinal ailments are major drivers fueling market growth. Technological advancements, particularly 3D/4D imaging, AI-powered diagnostics, and portable wireless ultrasound devices, are enhancing the efficiency and accessibility of ultrasound imaging, driving the widespread adoption of handheld ultrasound systems across diverse healthcare settings.

A growing focus on minimally invasive procedures and the demand for real-time imaging solutions are encouraging medical practitioners to incorporate handheld ultrasound devices into emergency care, trauma management, and primary healthcare settings. The increasing preference for home-based healthcare solutions, fueled by an aging population and the rising burden of chronic illnesses, is further stimulating the adoption of compact, easy-to-use ultrasound systems. Key manufacturers are investing in R&D to introduce AI-integrated ultrasound solutions that improve image quality, workflow automation, and remote diagnostics capabilities.

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However, regulatory barriers, stringent FDA approvals, and cost constraints associated with advanced handheld ultrasound technologies pose challenges to market growth. Additionally, limited reimbursement policies in emerging economies hinder widespread adoption. Nevertheless, the market is expected to witness significant expansion, particularly with the integration of wireless ultrasound solutions that seamlessly connect to smartphones and cloud-based platforms for enhanced diagnostic capabilities.

The global market is segmented into Technology, Application, End Use, and Region. The 3D/4D ultrasound segment dominated the market in 2023, accounting for 46.69% of total revenue, due to its superior imaging quality, which is widely utilized in cardiovascular diagnostics, obstetric imaging, and breast cancer screening. The hospitals segment remains the largest end-user category, while primary clinics and home healthcare are emerging as high-growth sectors due to the increasing demand for point-of-care imaging solutions.

Geographical Insights

The North America region led the global handheld ultrasound devices market in 2023, capturing 28.58% of the total revenue share, driven by the widespread adoption of advanced ultrasound technologies, strong healthcare infrastructure, and favorable reimbursement policies. The United States remains the most significant market, benefiting from high healthcare spending and a growing focus on early disease detection.

In Europe, the market is expanding due to technological innovations, the increasing prevalence of chronic illnesses, and the presence of key ultrasound device manufacturers. The UK, Germany, and France are key contributors, with rising demand for point-of-care ultrasound solutions in primary care settings.

The Asia Pacific market is projected to grow at the fastest CAGR of 6.21% over the forecast period, with China, Japan, and India driving demand. Factors such as rapid urbanization, increased investment in healthcare infrastructure, and a growing aging population are fostering market growth in the region.

Major Market Players Included in This Report

GE HealthCare

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Koninklijke Philips N.V.

Shenzhen Mindray Bio-Medical Electronics Co., Ltd.

BenQ Medical Technology

CHISON Medical Technologies Co., Ltd.

Dawei Medical (Jiangsu) Corp., Ltd.

Viatom Technology Co., Ltd.

Telemed Medical Systems S.r.l.

Butterfly Network, Inc.

Pulsenmore Ltd.

Leltek Inc.

The detailed segments and sub-segments of the market are explained below:

By Technology

2D Ultrasound

3D/4D Ultrasound

Doppler Ultrasound

By Application

Obstetrics/Gynecology

Cardiovascular

Urology

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Gastroenterology

Musculoskeletal

Trauma

Others

By End Use

Hospitals

Primary Clinics

Others

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

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- Spain
- Denmark
- Sweden
- Norway

Asia Pacific

- Japan
- China
- India
- Australia
- Thailand
- South Korea

Latin America

- Brazil
- Argentina

Middle East & Africa

- South Africa
- Saudi Arabia
- UAE

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Kuwait

Key Takeaways:

1 Market Estimates & Forecast for 10 years (2022-2032)

2 Annualized revenues and regional-level analysis for each market segment

3 Detailed analysis of geographical landscape with country-level insights

4 Competitive landscape with company profiling of key players

5 Analysis of key business strategies and recommendations for future market growth
6Evaluation of competitive structure and market positioning of leading players

7 In-depth demand-side and supply-side market analysis

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