

# **Global Human Augmentation Market Size Study, by Technology (Wearable, Virtual Reality, Augmented Reality, Exoskeleton, Intelligent Virtual Assistant), by Device (Body Worn, Non-Body Worn), by Application (Medical, Aerospace & Defense, Sports & Utility, Media & Entertainment, Education, Others) and Regional Forecasts 2022-2032**

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## **Abstracts**

The Global Human Augmentation Market was valued at approximately USD 169.07 billion in 2023 and is projected to grow from USD 201.59 billion in 2024 to USD 169.07 billion by 2032, exhibiting a CAGR of 20.3% during the forecast period. Human augmentation encompasses a range of technologies aimed at enhancing human capabilities, both physically and cognitively. This rapidly evolving field has broad applications across medical care, military, national defense, and manufacturing sectors. Key innovations include exoskeletons, real-time voice translation, and augmented reality, leveraging advancements in mobile technology, big data analysis, and networking to create new communication channels and real-time web applications. The market's expansion is significantly driven by the ongoing development of advanced technologies designed to enhance human capabilities without the need for surgical procedures or implants. Noteworthy among these advancements are exoskeletons, which enhance physical endurance and strength, and brain-computer interfaces that improve cognitive functions. Additionally, the rising demand for wearable devices, particularly those used for therapeutic applications and health monitoring, is propelling market growth. Advanced sensor technology and miniaturized multifunctional ICs have enabled the creation of sophisticated wearable devices that meet consumer needs, further driving market growth. Opportunities abound in the human augmentation market due to increasing research and development activities by major companies. These

efforts focus on creating superior augmentation technologies, procedures, and devices. In the medical field, innovations such as near-infrared spectroscopy for brain imaging offer more accurate and cost-effective diagnostic tools compared to traditional methods. Furthermore, the introduction of new products, like Samsung Electronics' Galaxy Watch 4, which features real-time body composition metrics, highlights the market's growth potential. However, the high costs associated with the development of human augmentation technologies pose a significant restraint. These technologies are expensive due to their complexity and advanced nature, potentially limiting market growth. Additionally, concerns about data security and cyberattacks may deter consumers from adopting human augmentation technologies, further challenging market expansion.

North America, holding 43.7% of the global market share, is the most promising region due to its technological advancements and early adoption of various human augmentation technologies. The region's heavy investment in research and development and the widespread adoption of technologies such as AR/VR, wearable devices, and robotic exoskeletons are expected to sustain high demand. Meanwhile, the Asia Pacific region is poised for significant growth driven by increasing digitization and the adoption of advanced technologies like cloud deployment, Big Data, and artificial intelligence across various industries, including healthcare, media, and aerospace.

Major market players included in this report are:

Google LLC (Alphabet, Inc.) (U.S.)  
Magic Leap, Inc. (U.S.)  
ReWalk Robotics (U.S.)  
SAMSUNG (South Korea)  
B-Temia (Canada)  
Panasonic Holdings Corporation (Japan)  
NVIDIA Corporation (U.S.)  
Microsoft (U.S.)  
Ekso Bionics (U.S.)  
Vuzix (U.S.)

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

By Technology:

- Wearable
- Virtual Reality
- Augmented Reality
- Exoskeleton
- Intelligent Virtual Assistant

By Device:

- Body Worn

- Non-Body Worn

By Application:

- Medical
- Aerospace & Defense
- Sports & Utility
- Media & Entertainment
- Education
- Others (Construction, Energy & Power)

By Region:

- North America
- U.S.
- Canada
- Europe
- UK
- Germany
- France
- Spain
- Italy
- ROE
- Asia Pacific
- China
- India
- Japan
- Australia
- South Korea
- RoAPAC
- Latin America
- Brazil
- Mexico
- RoLA
- Middle East & Africa
- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

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