

# 3D Motion Capture System Market Size, Industry Growth, Statistics, Demand, Share, Segmentation and Forecast to 2031

CHICAGO, UNITED STATES, February 6, 2023

/EINPresswire.com/ -- [Global 3D motion capture system market](#) is recording a CAGR of 14.10% during the forecast period 2023-2031.

3D motion capture is the method of documenting the complete motion of things or people in three dimensions using a number of motion sensors and accelerometers. It includes multiple components, including top-notch sensors, cameras, accessories, and communication tools. Visual effects (VFX) studios, neuroscience, therapy, robotics, engineering, computer vision, and design applications all frequently use 3D motion capture.



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In a variety of fields, it can catch extremely intricate movements as well as the subject's motion in real-time. Additionally, it helps to increase the accuracy of mapping products by lowering inconsistencies and movement precision. The education, entertainment, biomedical research, sports, and healthcare sectors all make substantial use of 3D motion capture.

## Market Dynamics

The market's expansion is attributable to a number of causes, including the expanding need for high-quality 3D animation across industries and the popularity of science fiction films among young people. A further factor driving market expansion is the use of artificial intelligence and machine learning to produce lifelike animations without the need for expensive tools like multi-camera systems and reflective markers.

Another element driving growth in the healthcare sector is the rising use of 3D motion capture for alternative training techniques in diagnostics, medical studies, posture analysis,

rehabilitation, and the treatment of physical diseases.

However, the need for high-end processors and the need for specialized hardware and software for data processing are limiting market growth throughout the anticipated period.

### Impact Analysis of COVID-19

Due to the global shutdown during COVID-19, media production companies have been shut down. The global 3D motion capture service industry has suffered harm, like many other industries. The market has slowed because of the long-term stagnation in the entertainment industry. However, the demand for the gaming industry is lessening as a result of the slowing economic growth. Additionally, from the perspective of software, it is anticipated that the industry's providers will continue to profit from the periodic renewal of licenses.

### Geographical Summary

North America accounted for a lucrative share of the global industry. This is due to the fact that 3D motion capture is becoming more and more popular in the US and that major 3D motion capture companies like PhaseSpace Inc., Vicon Motion Systems Inc., Motion Analysis Corporation, and OptiTrack are present in the region.

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### Notable Competitors

The well-known companies operating in the global 3D motion capture system market are:

Xsens Technologies BV.

Motion Analysis Corporation

Vicon Motion Systems Ltd.

Synertial XSens Technologies

Qualisys Vicon Motion Systems

Phoenix Technologies Inc.

Northern Digital Codamotion

PhaseSpace Inc.

STT Systems

OptiTrack

AIQ Synertial Ltd.

Northern Digital Inc

Codamotion-Charnwood Dynamics Ltd.

Noraxon USA Inc.

Motion Analysis Corporation

Others

## Recent Developments by these Players

In August 2022, CinePuck, a tracking tool specifically designed for virtual production, mixed reality, and broadcast studios, was just released, according to OptiTrack, a key supplier of 3D tracking systems. Even in production circumstances with significant occlusion, the low-profile CinePuck device, designed with OptiTrack's world-class Active tracking technology, offers accuracy for real-time workflows, industry-leading tracking precision, and in-camera visual effects.

In August 2022, with USD 5.5 million in seed funding, Sportsbox, a North American artificial intelligence (AI) coaching company, will be able to further the development of its single-camera 3D motion capture technology and expand into additional sports.

In Sept 2021, in order to celebrate the beginning of the school year, which began this week, LG Electronics USA (LG) debuted an immersive 3D multimedia series on its enormous high-definition digital billboard located above Times Square in New York City.

In July 2021, motion tracking and high-quality performance recording are made possible by Motive 3.0, which is a revamped version of OptiTrack's user-friendly software. OptiTrack is a provider of motion capture solutions and technologies.

In May 2021, the MTi-630R and MTi-670G, two new products from motion tracking module manufacturer Xsens, are part of the technologically advanced MTi 600-series and increase the customer's selection of durable devices with and without an integrated satellite location receiver.

## Segmentation Outline

The global 3D motion capture system market segmentation focuses on Components, Systems, Applications, End-User, and Region.

### By Component

#### Hardware

- o Camera
- o Sensors
- o Accessories

#### Software

- o Cloud-based
- o On-Premise

#### Services

- o Professional Services
- o Managed Services

### By System

#### Optical 3D Motion Capture Systems

- o Active 3D Motion Capture Systems
- o Passive 3D Motion Capture Systems
- Non-optical 3D Motion Capture Systems
- o Electromagnetic 3D Motion Capture Systems
- o Inertial 3D Motion Capture Systems
- o Motorized 3D Motion Capture Systems

#### By Application

Biomechanical Research and Medical  
Education  
Engineering and Industrial Applications  
Media and Entertainment  
Other Applications

#### By End-User

BFSI  
IT and Telecommunications  
Media and Entertainment  
Manufacturing  
Retail and Consumer Goods  
Healthcare  
Transportation and Logistics  
Education  
Others

#### By Region

North America  
The U.S.  
Canada  
Mexico

Europe  
Western Europe  
The UK  
Germany  
France  
Italy  
Spain  
Rest of Western Europe  
Eastern Europe  
Poland  
Russia  
Rest of Eastern Europe

Asia Pacific  
China  
India  
Japan  
Australia & New Zealand  
ASEAN  
Rest of Asia Pacific

Middle East & Africa (MEA)  
UAE  
Saudi Arabia  
South Africa  
Rest of MEA

South America  
Brazil  
Argentina  
Rest of South America

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