

Global Full Body Motion Capture Equipment Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Full Body Motion Capture Equipment market size was valued at US\$ 352 million in 2025 and is forecast to a readjusted size of US\$ 557 million by 2032 with a CAGR of 5.7% during review period.

The global price range for full-body motion capture equipment varies significantly, primarily determined by precision, technology, and scale. Entry-level or consumer-grade solutions based on inertial sensors range from \$10k to \$100k. High-precision optical systems (including cameras and markers) generally range from \$100k to \$500k. Top-tier customized solutions for film and television special effects or scientific research can exceed one million dollars. The core costs come from high-precision sensors, dedicated software, and calibration services.

Full Body Motion Capture Equipment is a system capable of accurately recording and digitizing the overall motion trajectory of the human body in three-dimensional space. Through sensors or markers deployed at key body parts, it tracks the position, rotation, and motion posture of each joint in real time, transforming this data into digital models that can be used for analysis, animation, or real-time motion control. Its core value lies in the high-precision, low-latency reproduction of complex human movements. It is widely used in film and animation, game development, virtual reality, sports science analysis, medical rehabilitation, and human-computer interaction research, serving as a key technological tool for realizing virtual character motion control and quantitative analysis of human movement.

By 2025, the global industrial chain for Full Body Motion Capture Equipment will have a

clear division of labor. Upstream core technologies are concentrated in high-precision sensors (such as TDK's IMU and Basler's infrared cameras), optical lenses, dedicated chips, and underlying algorithm software. These technologies have high barriers to entry and are dominated by companies in the US and Germany. Downstream applications are diverse and specific: film and game production (such as virtual filming for the sequels to Avatar), virtual reality experiences and metaverse content development, sports science (such as NBA teams using it for athlete movement analysis and injury prevention), medical rehabilitation (gait analysis and surgical navigation training), and university research institutions (human-computer interaction research). The industrial chain is characterized by a highly specialized upstream sector and downstream scenario-driven innovation.

The cost of full-body motion capture equipment is primarily driven by high-precision core hardware. Sensors (IMU, optical camera), markers, and data processing modules account for the majority of the hardware cost. The industry has a high gross profit margin, typically between 50% and 70% for professional-grade systems.

The global development of full body motion capture equipment exhibits a regional pattern dominated by technological routes and application ecosystems. North America (represented by the United States) holds an absolute leading position in high-end optical motion capture and software algorithms, boasting leading companies such as Vicon and OptiTrack, and dominating the film, gaming, and cutting-edge research markets. Europe has deep expertise in precision optical components, inertial sensors, and industrial-grade application solutions. East Asia (China, Japan, and South Korea) is an important center for the production and innovation of consumer-grade and inertial motion capture equipment, experiencing rapid growth, particularly in virtual idols, game animation, and low-cost solutions, and continuing to penetrate the high-end market. The global market is expanding with emerging demands such as the metaverse and digital humans, but core technologies and high-value-added segments are still controlled by European and American companies.

This report is a detailed and comprehensive analysis for global Full Body Motion Capture Equipment market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the 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 Full Body Motion Capture Equipment market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Full Body Motion Capture Equipment market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Full Body Motion Capture Equipment market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Full Body Motion Capture Equipment market shares of main players, in revenue (\$ Million), 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 Full Body Motion Capture Equipment

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 Full Body Motion Capture Equipment market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include OptiTrack, Xsens, Rokoko, NANSENSE, The Captury, STT System, Neuron Mocap, Motion Analysis Corporation, Noraxon, PhaseSpace, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Full Body Motion Capture Equipment market is split by Type and by Application. For the

period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Active Marker Systems

Passive Marker Systems

Market segment by Technical Principle

Optical Motion Capture

Inertial Motion Capture

Computer Vision Motion Capture

Mechanical Motion Capture

Market segment by Form

Fixed Type

Mobile Type

Market segment by Application

Film & Animation

Game Development

Virtual Reality

Sports Science Analysis

Medical Rehabilitation

Robotics

Others

Market segment by players, this report covers

OptiTrack

Xsens

Rokoko

NANSENSE

The Captury

STT System

Neuron Mocap

Motion Analysis Corporation

Noraxon

PhaseSpace

PTI Phoenix

Qualisys

Synertial

Vicon

Simi

ART

Prophysics

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Full Body Motion Capture Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Full Body Motion Capture Equipment, with revenue, gross margin, and global market share of Full Body Motion Capture Equipment from 2021 to 2026.

Chapter 3, the Full Body Motion Capture Equipment competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Full Body Motion Capture Equipment market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Full Body Motion Capture Equipment.

Chapter 13, to describe Full Body Motion Capture Equipment research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Full Body Motion Capture Equipment by Type

1.3.1 Overview: Global Full Body Motion Capture Equipment Market Size by Type: 2021 Versus 2025 Versus 2032

1.3.2 Global Full Body Motion Capture Equipment Consumption Value Market Share by Type in 2025

1.3.3 Active Marker Systems

1.3.4 Passive Marker Systems

1.4 Classification of Full Body Motion Capture Equipment by Technical Principle

1.4.1 Overview: Global Full Body Motion Capture Equipment Market Size by Technical Principle: 2021 Versus 2025 Versus 2032

1.4.2 Global Full Body Motion Capture Equipment Consumption Value Market Share by Technical Principle in 2025

1.4.3 Optical Motion Capture

1.4.4 Inertial Motion Capture

1.4.5 Computer Vision Motion Capture

1.4.6 Mechanical Motion Capture

1.5 Classification of Full Body Motion Capture Equipment by Form

1.5.1 Overview: Global Full Body Motion Capture Equipment Market Size by Form: 2021 Versus 2025 Versus 2032

1.5.2 Global Full Body Motion Capture Equipment Consumption Value Market Share by Form in 2025

1.5.3 Fixed Type

1.5.4 Mobile Type

1.6 Global Full Body Motion Capture Equipment Market by Application

1.6.1 Overview: Global Full Body Motion Capture Equipment Market Size by Application: 2021 Versus 2025 Versus 2032

1.6.2 Film & Animation

1.6.3 Game Development

1.6.4 Virtual Reality

1.6.5 Sports Science Analysis

1.6.6 Medical Rehabilitation

1.6.7 Robotics

1.6.8 Others

- 1.7 Global Full Body Motion Capture Equipment Market Size & Forecast
- 1.8 Global Full Body Motion Capture Equipment Market Size and Forecast by Region
 - 1.8.1 Global Full Body Motion Capture Equipment Market Size by Region: 2021 VS 2025 VS 2032
 - 1.8.2 Global Full Body Motion Capture Equipment Market Size by Region, (2021-2032)
 - 1.8.3 North America Full Body Motion Capture Equipment Market Size and Prospect (2021-2032)
 - 1.8.4 Europe Full Body Motion Capture Equipment Market Size and Prospect (2021-2032)
 - 1.8.5 Asia-Pacific Full Body Motion Capture Equipment Market Size and Prospect (2021-2032)
 - 1.8.6 South America Full Body Motion Capture Equipment Market Size and Prospect (2021-2032)
 - 1.8.7 Middle East & Africa Full Body Motion Capture Equipment Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 OptiTrack

- 2.1.1 OptiTrack Details
- 2.1.2 OptiTrack Major Business
- 2.1.3 OptiTrack Full Body Motion Capture Equipment Product and Solutions
- 2.1.4 OptiTrack Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 OptiTrack Recent Developments and Future Plans

2.2 Xsens

- 2.2.1 Xsens Details
- 2.2.2 Xsens Major Business
- 2.2.3 Xsens Full Body Motion Capture Equipment Product and Solutions
- 2.2.4 Xsens Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 Xsens Recent Developments and Future Plans

2.3 Rokoko

- 2.3.1 Rokoko Details
- 2.3.2 Rokoko Major Business
- 2.3.3 Rokoko Full Body Motion Capture Equipment Product and Solutions
- 2.3.4 Rokoko Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)
- 2.3.5 Rokoko Recent Developments and Future Plans

2.4 NANSENSE

2.4.1 NANSENSE Details

2.4.2 NANSENSE Major Business

2.4.3 NANSENSE Full Body Motion Capture Equipment Product and Solutions

2.4.4 NANSENSE Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 NANSENSE Recent Developments and Future Plans

2.5 The Captury

2.5.1 The Captury Details

2.5.2 The Captury Major Business

2.5.3 The Captury Full Body Motion Capture Equipment Product and Solutions

2.5.4 The Captury Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 The Captury Recent Developments and Future Plans

2.6 STT System

2.6.1 STT System Details

2.6.2 STT System Major Business

2.6.3 STT System Full Body Motion Capture Equipment Product and Solutions

2.6.4 STT System Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 STT System Recent Developments and Future Plans

2.7 Neuron Mocap

2.7.1 Neuron Mocap Details

2.7.2 Neuron Mocap Major Business

2.7.3 Neuron Mocap Full Body Motion Capture Equipment Product and Solutions

2.7.4 Neuron Mocap Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Neuron Mocap Recent Developments and Future Plans

2.8 Motion Analysis Corporation

2.8.1 Motion Analysis Corporation Details

2.8.2 Motion Analysis Corporation Major Business

2.8.3 Motion Analysis Corporation Full Body Motion Capture Equipment Product and Solutions

2.8.4 Motion Analysis Corporation Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Motion Analysis Corporation Recent Developments and Future Plans

2.9 Noraxon

2.9.1 Noraxon Details

2.9.2 Noraxon Major Business

- 2.9.3 Noraxon Full Body Motion Capture Equipment Product and Solutions
- 2.9.4 Noraxon Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)
- 2.9.5 Noraxon Recent Developments and Future Plans
- 2.10 PhaseSpace
 - 2.10.1 PhaseSpace Details
 - 2.10.2 PhaseSpace Major Business
 - 2.10.3 PhaseSpace Full Body Motion Capture Equipment Product and Solutions
 - 2.10.4 PhaseSpace Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 PhaseSpace Recent Developments and Future Plans
- 2.11 PTI Phoenix
 - 2.11.1 PTI Phoenix Details
 - 2.11.2 PTI Phoenix Major Business
 - 2.11.3 PTI Phoenix Full Body Motion Capture Equipment Product and Solutions
 - 2.11.4 PTI Phoenix Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 PTI Phoenix Recent Developments and Future Plans
- 2.12 Qualisys
 - 2.12.1 Qualisys Details
 - 2.12.2 Qualisys Major Business
 - 2.12.3 Qualisys Full Body Motion Capture Equipment Product and Solutions
 - 2.12.4 Qualisys Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 Qualisys Recent Developments and Future Plans
- 2.13 Synertial
 - 2.13.1 Synertial Details
 - 2.13.2 Synertial Major Business
 - 2.13.3 Synertial Full Body Motion Capture Equipment Product and Solutions
 - 2.13.4 Synertial Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Synertial Recent Developments and Future Plans
- 2.14 Vicon
 - 2.14.1 Vicon Details
 - 2.14.2 Vicon Major Business
 - 2.14.3 Vicon Full Body Motion Capture Equipment Product and Solutions
 - 2.14.4 Vicon Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 Vicon Recent Developments and Future Plans

2.15 Simi

2.15.1 Simi Details

2.15.2 Simi Major Business

2.15.3 Simi Full Body Motion Capture Equipment Product and Solutions

2.15.4 Simi Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 Simi Recent Developments and Future Plans

2.16 ART

2.16.1 ART Details

2.16.2 ART Major Business

2.16.3 ART Full Body Motion Capture Equipment Product and Solutions

2.16.4 ART Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 ART Recent Developments and Future Plans

2.17 Prophysics

2.17.1 Prophysics Details

2.17.2 Prophysics Major Business

2.17.3 Prophysics Full Body Motion Capture Equipment Product and Solutions

2.17.4 Prophysics Full Body Motion Capture Equipment Revenue, Gross Margin and Market Share (2021-2026)

2.17.5 Prophysics Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

3.1 Global Full Body Motion Capture Equipment Revenue and Share by Players (2021-2026)

3.2 Market Share Analysis (2025)

3.2.1 Market Share of Full Body Motion Capture Equipment by Company Revenue

3.2.2 Top 3 Full Body Motion Capture Equipment Players Market Share in 2025

3.2.3 Top 6 Full Body Motion Capture Equipment Players Market Share in 2025

3.3 Full Body Motion Capture Equipment Market: Overall Company Footprint Analysis

3.3.1 Full Body Motion Capture Equipment Market: Region Footprint

3.3.2 Full Body Motion Capture Equipment Market: Company Product Type Footprint

3.3.3 Full Body Motion Capture Equipment Market: Company Product Application

Footprint

3.4 New Market Entrants and Barriers to Market Entry

3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

4.1 Global Full Body Motion Capture Equipment Consumption Value and Market Share by Type (2021-2026)

4.2 Global Full Body Motion Capture Equipment Market Forecast by Type (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global Full Body Motion Capture Equipment Consumption Value Market Share by Application (2021-2026)

5.2 Global Full Body Motion Capture Equipment Market Forecast by Application (2027-2032)

6 NORTH AMERICA

6.1 North America Full Body Motion Capture Equipment Consumption Value by Type (2021-2032)

6.2 North America Full Body Motion Capture Equipment Market Size by Application (2021-2032)

6.3 North America Full Body Motion Capture Equipment Market Size by Country

6.3.1 North America Full Body Motion Capture Equipment Consumption Value by Country (2021-2032)

6.3.2 United States Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

6.3.3 Canada Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

6.3.4 Mexico Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

7 EUROPE

7.1 Europe Full Body Motion Capture Equipment Consumption Value by Type (2021-2032)

7.2 Europe Full Body Motion Capture Equipment Consumption Value by Application (2021-2032)

7.3 Europe Full Body Motion Capture Equipment Market Size by Country

7.3.1 Europe Full Body Motion Capture Equipment Consumption Value by Country (2021-2032)

7.3.2 Germany Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

7.3.3 France Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

7.3.4 United Kingdom Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

7.3.5 Russia Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

7.3.6 Italy Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

8 ASIA-PACIFIC

8.1 Asia-Pacific Full Body Motion Capture Equipment Consumption Value by Type (2021-2032)

8.2 Asia-Pacific Full Body Motion Capture Equipment Consumption Value by Application (2021-2032)

8.3 Asia-Pacific Full Body Motion Capture Equipment Market Size by Region

8.3.1 Asia-Pacific Full Body Motion Capture Equipment Consumption Value by Region (2021-2032)

8.3.2 China Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

8.3.3 Japan Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

8.3.4 South Korea Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

8.3.5 India Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

8.3.6 Southeast Asia Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

8.3.7 Australia Full Body Motion Capture Equipment Market Size and Forecast (2021-2032)

9 SOUTH AMERICA

9.1 South America Full Body Motion Capture Equipment Consumption Value by Type (2021-2032)

9.2 South America Full Body Motion Capture Equipment Consumption Value by Application (2021-2032)

9.3 South America Full Body Motion Capture Equipment Market Size by Country

9.3.1 South America Full Body Motion Capture Equipment Consumption Value by Country (2021-2032)

9.3.2 Brazil Full Body Motion Capture Equipment Market Size and Forecast
(2021-2032)

9.3.3 Argentina Full Body Motion Capture Equipment Market Size and Forecast
(2021-2032)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Full Body Motion Capture Equipment Consumption Value by Type (2021-2032)

10.2 Middle East & Africa Full Body Motion Capture Equipment Consumption Value by Application (2021-2032)

10.3 Middle East & Africa Full Body Motion Capture Equipment Market Size by Country

10.3.1 Middle East & Africa Full Body Motion Capture Equipment Consumption Value by Country (2021-2032)

10.3.2 Turkey Full Body Motion Capture Equipment Market Size and Forecast
(2021-2032)

10.3.3 Saudi Arabia Full Body Motion Capture Equipment Market Size and Forecast
(2021-2032)

10.3.4 UAE Full Body Motion Capture Equipment Market Size and Forecast
(2021-2032)

11 MARKET DYNAMICS

11.1 Full Body Motion Capture Equipment Market Drivers

11.2 Full Body Motion Capture Equipment Market Restraints

11.3 Full Body Motion Capture Equipment Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 Full Body Motion Capture Equipment Industry Chain

12.2 Full Body Motion Capture Equipment Upstream Analysis

12.3 Full Body Motion Capture Equipment Midstream Analysis

12.4 Full Body Motion Capture Equipment Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Full Body Motion Capture Equipment Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Full Body Motion Capture Equipment Consumption Value by Technical Principle, (USD Million), 2021 & 2025 & 2032

Table 3. Global Full Body Motion Capture Equipment Consumption Value by Form, (USD Million), 2021 & 2025 & 2032

Table 4. Global Full Body Motion Capture Equipment Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Global Full Body Motion Capture Equipment Consumption Value by Region (2021-2026) & (USD Million)

Table 6. Global Full Body Motion Capture Equipment Consumption Value by Region (2027-2032) & (USD Million)

Table 7. OptiTrack Company Information, Head Office, and Major Competitors

Table 8. OptiTrack Major Business

Table 9. OptiTrack Full Body Motion Capture Equipment Product and Solutions

Table 10. OptiTrack Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 11. OptiTrack Recent Developments and Future Plans

Table 12. Xsens Company Information, Head Office, and Major Competitors

Table 13. Xsens Major Business

Table 14. Xsens Full Body Motion Capture Equipment Product and Solutions

Table 15. Xsens Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 16. Xsens Recent Developments and Future Plans

Table 17. Rokoko Company Information, Head Office, and Major Competitors

Table 18. Rokoko Major Business

Table 19. Rokoko Full Body Motion Capture Equipment Product and Solutions

Table 20. Rokoko Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 21. NANSENSE Company Information, Head Office, and Major Competitors

Table 22. NANSENSE Major Business

Table 23. NANSENSE Full Body Motion Capture Equipment Product and Solutions

Table 24. NANSENSE Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. NANSENSE Recent Developments and Future Plans

Table 26. The Captury Company Information, Head Office, and Major Competitors

Table 27. The Captury Major Business

Table 28. The Captury Full Body Motion Capture Equipment Product and Solutions

Table 29. The Captury Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. The Captury Recent Developments and Future Plans

Table 31. STT System Company Information, Head Office, and Major Competitors

Table 32. STT System Major Business

Table 33. STT System Full Body Motion Capture Equipment Product and Solutions

Table 34. STT System Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. STT System Recent Developments and Future Plans

Table 36. Neuron Mocap Company Information, Head Office, and Major Competitors

Table 37. Neuron Mocap Major Business

Table 38. Neuron Mocap Full Body Motion Capture Equipment Product and Solutions

Table 39. Neuron Mocap Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Neuron Mocap Recent Developments and Future Plans

Table 41. Motion Analysis Corporation Company Information, Head Office, and Major Competitors

Table 42. Motion Analysis Corporation Major Business

Table 43. Motion Analysis Corporation Full Body Motion Capture Equipment Product and Solutions

Table 44. Motion Analysis Corporation Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Motion Analysis Corporation Recent Developments and Future Plans

Table 46. Noraxon Company Information, Head Office, and Major Competitors

Table 47. Noraxon Major Business

Table 48. Noraxon Full Body Motion Capture Equipment Product and Solutions

Table 49. Noraxon Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. Noraxon Recent Developments and Future Plans

Table 51. PhaseSpace Company Information, Head Office, and Major Competitors

Table 52. PhaseSpace Major Business

Table 53. PhaseSpace Full Body Motion Capture Equipment Product and Solutions

Table 54. PhaseSpace Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. PhaseSpace Recent Developments and Future Plans

Table 56. PTI Phoenix Company Information, Head Office, and Major Competitors

Table 57. PTI Phoenix Major Business

Table 58. PTI Phoenix Full Body Motion Capture Equipment Product and Solutions

Table 59. PTI Phoenix Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. PTI Phoenix Recent Developments and Future Plans

Table 61. Qualisys Company Information, Head Office, and Major Competitors

Table 62. Qualisys Major Business

Table 63. Qualisys Full Body Motion Capture Equipment Product and Solutions

Table 64. Qualisys Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Qualisys Recent Developments and Future Plans

Table 66. Synertial Company Information, Head Office, and Major Competitors

Table 67. Synertial Major Business

Table 68. Synertial Full Body Motion Capture Equipment Product and Solutions

Table 69. Synertial Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 70. Synertial Recent Developments and Future Plans

Table 71. Vicon Company Information, Head Office, and Major Competitors

Table 72. Vicon Major Business

Table 73. Vicon Full Body Motion Capture Equipment Product and Solutions

Table 74. Vicon Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 75. Vicon Recent Developments and Future Plans

Table 76. Simi Company Information, Head Office, and Major Competitors

Table 77. Simi Major Business

Table 78. Simi Full Body Motion Capture Equipment Product and Solutions

Table 79. Simi Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 80. Simi Recent Developments and Future Plans

Table 81. ART Company Information, Head Office, and Major Competitors

Table 82. ART Major Business

Table 83. ART Full Body Motion Capture Equipment Product and Solutions

Table 84. ART Full Body Motion Capture Equipment Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. ART Recent Developments and Future Plans

Table 86. Prophysics Company Information, Head Office, and Major Competitors

Table 87. Prophysics Major Business

Table 88. Prophysics Full Body Motion Capture Equipment Product and Solutions

Table 89. Prophysics Full Body Motion Capture Equipment Revenue (USD Million),

Gross Margin and Market Share (2021-2026)

Table 90. Prophysics Recent Developments and Future Plans

Table 91. Global Full Body Motion Capture Equipment Revenue (USD Million) by Players (2021-2026)

Table 92. Global Full Body Motion Capture Equipment Revenue Share by Players (2021-2026)

Table 93. Breakdown of Full Body Motion Capture Equipment by Company Type (Tier 1, Tier 2, and Tier 3)

Table 94. Market Position of Players in Full Body Motion Capture Equipment, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 95. Head Office of Key Full Body Motion Capture Equipment Players

Table 96. Full Body Motion Capture Equipment Market: Company Product Type Footprint

Table 97. Full Body Motion Capture Equipment Market: Company Product Application Footprint

Table 98. Full Body Motion Capture Equipment New Market Entrants and Barriers to Market Entry

Table 99. Full Body Motion Capture Equipment Mergers, Acquisition, Agreements, and Collaborations

Table 100. Global Full Body Motion Capture Equipment Consumption Value (USD Million) by Type (2021-2026)

Table 101. Global Full Body Motion Capture Equipment Consumption Value Share by Type (2021-2026)

Table 102. Global Full Body Motion Capture Equipment Consumption Value Forecast by Type (2027-2032)

Table 103. Global Full Body Motion Capture Equipment Consumption Value by Application (2021-2026)

Table 104. Global Full Body Motion Capture Equipment Consumption Value Forecast by Application (2027-2032)

Table 105. North America Full Body Motion Capture Equipment Consumption Value by Type (2021-2026) & (USD Million)

Table 106. North America Full Body Motion Capture Equipment Consumption Value by Type (2027-2032) & (USD Million)

Table 107. North America Full Body Motion Capture Equipment Consumption Value by Application (2021-2026) & (USD Million)

Table 108. North America Full Body Motion Capture Equipment Consumption Value by Application (2027-2032) & (USD Million)

Table 109. North America Full Body Motion Capture Equipment Consumption Value by Country (2021-2026) & (USD Million)

Table 110. North America Full Body Motion Capture Equipment Consumption Value by Country (2027-2032) & (USD Million)

Table 111. Europe Full Body Motion Capture Equipment Consumption Value by Type (2021-2026) & (USD Million)

Table 112. Europe Full Body Motion Capture Equipment Consumption Value by Type (2027-2032) & (USD Million)

Table 113. Europe Full Body Motion Capture Equipment Consumption Value by Application (2021-2026) & (USD Million)

Table 114. Europe Full Body Motion Capture Equipment Consumption Value by Application (2027-2032) & (USD Million)

Table 115. Europe Full Body Motion Capture Equipment Consumption Value by Country (2021-2026) & (USD Million)

Table 116. Europe Full Body Motion Capture Equipment Consumption Value by Country (2027-2032) & (USD Million)

Table 117. Asia-Pacific Full Body Motion Capture Equipment Consumption Value by Type (2021-2026) & (USD Million)

Table 118. Asia-Pacific Full Body Motion Capture Equipment Consumption Value by Type (2027-2032) & (USD Million)

Table 119. Asia-Pacific Full Body Motion Capture Equipment Consumption Value by Application (2021-2026) & (USD Million)

Table 120. Asia-Pacific Full Body Motion Capture Equipment Consumption Value by Application (2027-2032) & (USD Million)

Table 121. Asia-Pacific Full Body Motion Capture Equipment Consumption Value by Region (2021-2026) & (USD Million)

Table 122. Asia-Pacific Full Body Motion Capture Equipment Consumption Value by Region (2027-2032) & (USD Million)

Table 123. South America Full Body Motion Capture Equipment Consumption Value by Type (2021-2026) & (USD Million)

Table 124. South America Full Body Motion Capture Equipment Consumption Value by Type (2027-2032) & (USD Million)

Table 125. South America Full Body Motion Capture Equipment Consumption Value by Application (2021-2026) & (USD Million)

Table 126. South America Full Body Motion Capture Equipment Consumption Value by Application (2027-2032) & (USD Million)

Table 127. South America Full Body Motion Capture Equipment Consumption Value by Country (2021-2026) & (USD Million)

Table 128. South America Full Body Motion Capture Equipment Consumption Value by Country (2027-2032) & (USD Million)

Table 129. Middle East & Africa Full Body Motion Capture Equipment Consumption

Value by Type (2021-2026) & (USD Million)

Table 130. Middle East & Africa Full Body Motion Capture Equipment Consumption

Value by Type (2027-2032) & (USD Million)

Table 131. Middle East & Africa Full Body Motion Capture Equipment Consumption

Value by Application (2021-2026) & (USD Million)

Table 132. Middle East & Africa Full Body Motion Capture Equipment Consumption

Value by Application (2027-2032) & (USD Million)

Table 133. Middle East & Africa Full Body Motion Capture Equipment Consumption

Value by Country (2021-2026) & (USD Million)

Table 134. Middle East & Africa Full Body Motion Capture Equipment Consumption

Value by Country (2027-2032) & (USD Million)

Table 135. Global Key Players of Full Body Motion Capture Equipment Upstream (Raw Materials)

Table 136. Global Full Body Motion Capture Equipment Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Full Body Motion Capture Equipment Picture
- Figure 2. Global Full Body Motion Capture Equipment Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Full Body Motion Capture Equipment Consumption Value Market Share by Type in 2025
- Figure 4. Active Marker Systems
- Figure 5. Passive Marker Systems
- Figure 6. Global Full Body Motion Capture Equipment Consumption Value by Technical Principle, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Full Body Motion Capture Equipment Consumption Value Market Share by Technical Principle in 2025
- Figure 8. Optical Motion Capture
- Figure 9. Inertial Motion Capture
- Figure 10. Computer Vision Motion Capture
- Figure 11. Mechanical Motion Capture
- Figure 12. Global Full Body Motion Capture Equipment Consumption Value by Form, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global Full Body Motion Capture Equipment Consumption Value Market Share by Form in 2025
- Figure 14. Fixed Type
- Figure 15. Mobile Type
- Figure 16. Global Full Body Motion Capture Equipment Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 17. Full Body Motion Capture Equipment Consumption Value Market Share by Application in 2025
- Figure 18. Film & Animation Picture
- Figure 19. Game Development Picture
- Figure 20. Virtual Reality Picture
- Figure 21. Sports Science Analysis Picture
- Figure 22. Medical Rehabilitation Picture
- Figure 23. Robotics Picture
- Figure 24. Others Picture
- Figure 25. Global Full Body Motion Capture Equipment Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 26. Global Full Body Motion Capture Equipment Consumption Value and

Forecast (2021-2032) & (USD Million)

Figure 27. Global Market Full Body Motion Capture Equipment Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)

Figure 28. Global Full Body Motion Capture Equipment Consumption Value Market Share by Region (2021-2032)

Figure 29. Global Full Body Motion Capture Equipment Consumption Value Market Share by Region in 2025

Figure 30. North America Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 31. Europe Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 32. Asia-Pacific Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 33. South America Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 34. Middle East & Africa Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 35. Company Three Recent Developments and Future Plans

Figure 36. Global Full Body Motion Capture Equipment Revenue Share by Players in 2025

Figure 37. Full Body Motion Capture Equipment Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025

Figure 38. Market Share of Full Body Motion Capture Equipment by Player Revenue in 2025

Figure 39. Top 3 Full Body Motion Capture Equipment Players Market Share in 2025

Figure 40. Top 6 Full Body Motion Capture Equipment Players Market Share in 2025

Figure 41. Global Full Body Motion Capture Equipment Consumption Value Share by Type (2021-2026)

Figure 42. Global Full Body Motion Capture Equipment Market Share Forecast by Type (2027-2032)

Figure 43. Global Full Body Motion Capture Equipment Consumption Value Share by Application (2021-2026)

Figure 44. Global Full Body Motion Capture Equipment Market Share Forecast by Application (2027-2032)

Figure 45. North America Full Body Motion Capture Equipment Consumption Value Market Share by Type (2021-2032)

Figure 46. North America Full Body Motion Capture Equipment Consumption Value Market Share by Application (2021-2032)

Figure 47. North America Full Body Motion Capture Equipment Consumption Value

Market Share by Country (2021-2032)

Figure 48. United States Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 49. Canada Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 50. Mexico Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 51. Europe Full Body Motion Capture Equipment Consumption Value Market Share by Type (2021-2032)

Figure 52. Europe Full Body Motion Capture Equipment Consumption Value Market Share by Application (2021-2032)

Figure 53. Europe Full Body Motion Capture Equipment Consumption Value Market Share by Country (2021-2032)

Figure 54. Germany Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 55. France Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 56. United Kingdom Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 57. Russia Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 58. Italy Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 59. Asia-Pacific Full Body Motion Capture Equipment Consumption Value Market Share by Type (2021-2032)

Figure 60. Asia-Pacific Full Body Motion Capture Equipment Consumption Value Market Share by Application (2021-2032)

Figure 61. Asia-Pacific Full Body Motion Capture Equipment Consumption Value Market Share by Region (2021-2032)

Figure 62. China Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 63. Japan Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 64. South Korea Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 65. India Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 66. Southeast Asia Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 67. Australia Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 68. South America Full Body Motion Capture Equipment Consumption Value Market Share by Type (2021-2032)

Figure 69. South America Full Body Motion Capture Equipment Consumption Value Market Share by Application (2021-2032)

Figure 70. South America Full Body Motion Capture Equipment Consumption Value Market Share by Country (2021-2032)

Figure 71. Brazil Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 72. Argentina Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 73. Middle East & Africa Full Body Motion Capture Equipment Consumption Value Market Share by Type (2021-2032)

Figure 74. Middle East & Africa Full Body Motion Capture Equipment Consumption Value Market Share by Application (2021-2032)

Figure 75. Middle East & Africa Full Body Motion Capture Equipment Consumption Value Market Share by Country (2021-2032)

Figure 76. Turkey Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 77. Saudi Arabia Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 78. UAE Full Body Motion Capture Equipment Consumption Value (2021-2032) & (USD Million)

Figure 79. Full Body Motion Capture Equipment Market Drivers

Figure 80. Full Body Motion Capture Equipment Market Restraints

Figure 81. Full Body Motion Capture Equipment Market Trends

Figure 82. Porters Five Forces Analysis

Figure 83. Full Body Motion Capture Equipment Industrial Chain

Figure 84. Methodology

Figure 85. Research Process and Data Source

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