

# Global Experimental Modal Analysis (EMA) Software Market 2026 by Company, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GF549A924C58EN.html>

Date: January 2026

Pages: 111

Price: US\$ 3,480.00 (Single User License)

ID: GF549A924C58EN

## Abstracts

According to our (Global Info Research) latest study, the global Experimental Modal Analysis (EMA) Software market size was valued at US\$ 130 million in 2025 and is forecast to a readjusted size of US\$ 166 million by 2032 with a CAGR of 3.7% during review period.

Experimental Modal Analysis (EMA) software analyzes vibration data from physical structures to determine key dynamic properties like natural frequencies, damping, and mode shapes, helping engineers understand, troubleshoot, and optimize structural behavior, often by fitting measured Frequency Response Functions (FRFs) to mathematical models for applications in aerospace, automotive, and civil engineering. Due to high technical barriers and strong customer switching costs, EMA software is typically sold through licensing with upgrade and maintenance services, resulting in relatively high gross margins, generally ranging from 65% to 85%, with vendors possessing mature algorithms and deep industry experience achieving the highest margins.

Experimental modal analysis software is used to identify natural frequencies, damping ratios, and mode shapes of structures under controlled excitation conditions, and is a core tool in structural dynamics analysis and product validation. The upstream segment mainly includes vibration and structural dynamics theory, signal acquisition and processing algorithms, operating systems, computing platforms, and standardized interface protocols, which together determine algorithm accuracy, data processing efficiency, and system compatibility. The downstream segment represents the main source of industry value, with highly engineering-oriented and specialized demand. Manufacturing is the largest downstream market; automotive, aerospace, rail

transportation, and heavy equipment companies extensively use EMA software during R&D and testing phases for structural optimization, noise and vibration improvement, and reliability verification, with strong focus on test accuracy, compatibility with exciters and sensor systems, and overall test efficiency. The electronics and precision equipment sector applies EMA software to enclosures, modules, and critical components, emphasizing high-frequency analysis capability and stability for small-scale structures. In civil engineering and infrastructure, EMA software is used for bridge components, building substructures, and laboratory-scale models, where low-frequency modal identification, result repeatability, and correlation with finite element models are key concerns. Research institutes and universities are also important users, placing emphasis on algorithm configurability, data visualization, and research-grade analytical depth. Overall, downstream users generally expect high-precision modal parameter identification, intuitive user interfaces, and seamless integration with CAE and simulation tools.

In terms of development trends, experimental modal analysis software is evolving toward more automated test workflows and integrated analysis platforms, with continuous improvement of modal identification algorithms to enhance stability under complex structures and high modal density conditions, and tighter bidirectional coupling with finite element modeling and digital prototyping. Key drivers include rising requirements for product reliability and NVH performance in high-end manufacturing, shortened development cycles, and the adoption of hybrid physical-virtual validation approaches. Major constraints include relatively high combined hardware and software costs, strong dependence on skilled specialists, and implementation challenges in field testing and large-scale structures.

This report is a detailed and comprehensive analysis for global Experimental Modal Analysis (EMA) Software 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 Experimental Modal Analysis (EMA) Software market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Experimental Modal Analysis (EMA) Software market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Experimental Modal Analysis (EMA) Software market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Experimental Modal Analysis (EMA) Software 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 Experimental Modal Analysis (EMA) Software

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 Experimental Modal Analysis (EMA) Software 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 Siemens Digital Industries Software, Hottinger Bruel & Kjaer (HBK), Dewesoft, Crystal Instruments, Data Physics, m+p international, OROS, Polytec, Structural Vibration Solutions (SVS), Spectral Dynamics, etc.

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

### Market segmentation

Experimental Modal Analysis (EMA) Software 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

Desktop Software

Mobile Applications

Online Tools

Embedded Software

Cloud Software

#### Market segment by Algorithm Type

Frequency Domain Method

Time Domain Method

Hybrid Domain Method

Multi-Reference Point Method

#### Market segment by Excitation Methods

Impact Testing

Swept Sine

Random Testing

Stepped Sine

MIMO Testing

#### Market segment by Development Mode

Commercial Software

Open Source Software

Semi-Open Source Software

Custom Software

Market segment by Application

Mechanical Engineering

Automotive Engineering

Aerospace Engineering

Civil Engineering

Microelectronics and Precision Instruments

Market segment by players, this report covers

Siemens Digital Industries Software

Hottinger Bruel & Kjaer (HBK)

Dewesoft

Crystal Instruments

Data Physics

m+p international

OROS

Polytec

Structural Vibration Solutions (SVS)

Spectral Dynamics

Vibrant Technology

Prosig

HEAD acoustics

National Instruments (NI)

MathWorks

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 Experimental Modal Analysis (EMA) Software product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Experimental Modal Analysis (EMA) Software, with revenue, gross margin, and global market share of Experimental Modal Analysis (EMA) Software from 2021 to 2026.

Chapter 3, the Experimental Modal Analysis (EMA) Software 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 Experimental Modal Analysis (EMA) Software 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 Experimental Modal Analysis (EMA) Software.

Chapter 13, to describe Experimental Modal Analysis (EMA) Software research findings and conclusion.

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