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# Global Portable Time-of-Flight Mass Spectrometer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Portable Time-of-Flight Mass Spectrometer market size was valued at US$ 46.30 million in 2025 and is forecast to a readjusted size of US$ 66.99 million by 2032 with a CAGR of 5.5% during review period.

Portable time-of-flight mass spectrometers (PTMS) are compact analytical instruments designed for rapid, on-site analysis of chemical and biological samples. They utilize time-of-flight detection to measure mass-to-charge ratio, offering high-speed, high-sensitivity analysis capabilities while reducing sample preparation requirements. They are widely used in environmental monitoring, homeland security, forensic investigations, industrial quality control, and emergency response, providing real-time data to support rapid on-site decision-making. The PMS industry chain includes upstream components such as miniature detectors, ion sources, vacuum pumps, electronic components, and precision mechanical structures; midstream manufacturers integrate ion optics, flight tubes, data acquisition systems, and software into portable devices; and downstream applications encompass environmental agencies, law enforcement, emergency response teams, industrial enterprises, and research institutions, providing installation, commissioning, method development, training, and maintenance services to ensure portability, measurement accuracy, and operational reliability. In 2025, the global production of PMS was approximately 129 units, with an average global market price of approximately US$350,000 per unit. The gross profit margins of major companies in the industry ranged from 40% to 60%. In 2025, the global production capacity of PMS was approximately 184 units.

This report is a detailed and comprehensive analysis for global Portable Time-of-Flight

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Mass Spectrometer market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Portable Time-of-Flight Mass Spectrometer market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Portable Time-of-Flight Mass Spectrometer market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Portable Time-of-Flight Mass Spectrometer market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Portable Time-of-Flight Mass Spectrometer market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (K US$/Unit), 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 Portable Time-of-Flight Mass Spectrometer
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 Portable Time-of-Flight Mass Spectrometer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include KANOMAX JAPAN, Exosens, Kore Technology Ltd., etc.

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

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## Market Segmentation

Portable Time-of-Flight Mass Spectrometer 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Electron Ionization (EI) Portable TOF MS

Chemical Ionization (CI) Portable TOF MS

Photoionization (PI) Portable TOF MS

Market segment by Instrument Configuration

Linear Portable TOF MS

Reflectron Portable TOF MS

Market segment by Application

Volatile & Semi-volatile Organic Compounds

Explosives & Hazardous Chemicals

Environmental Pollutants & Air Samples

Biological & Forensic Samples

Major players covered

KANOMAX JAPAN

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Exosens

Kore Technology Ltd.

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Portable Time-of-Flight Mass Spectrometer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Portable Time-of-Flight Mass Spectrometer, with price, sales quantity, revenue, and global market share of Portable Time-of-Flight Mass Spectrometer from 2021 to 2026.

Chapter 3, the Portable Time-of-Flight Mass Spectrometer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Portable Time-of-Flight Mass Spectrometer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Portable Time-of-Flight Mass Spectrometer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Portable Time-of-Flight Mass Spectrometer.

Chapter 14 and 15, to describe Portable Time-of-Flight Mass Spectrometer sales channel, distributors, customers, research findings and conclusion.

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