

# Global X-ray Photoelectron Spectroscopy (XPS) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global X-ray Photoelectron Spectroscopy (XPS) market size was valued at USD 801.8 million in 2023 and is forecast to a readjusted size of USD 909.5 million by 2030 with a CAGR of 1.8% during review period.

X-ray photoelectron spectroscopy (XPS) is a surface-sensitive quantitative spectroscopic technique that measures the elemental composition at the parts per thousand range, empirical formula, chemical state and electronic state of the elements that exist within a material. XPS spectra are obtained by irradiating a material with a beam of X-rays while simultaneously measuring the kinetic energy and number of electrons that escape from the top 0 to 10 nm of the material being analyzed. XPS requires high vacuum ( $P \sim 10^{-8}$  millibar) or ultra-high vacuum (UHV;  $P \sim 10^{-10}$  millibar). XPS can be used to analyze the surface chemistry of a material in its as-received state, or after some treatment, for example: fracturing, cutting or scraping in air or UHV to expose the bulk chemistry, ion beam etching to clean off some or all of the surface contamination (with mild ion etching) or to intentionally expose deeper layers of the sample (with more extensive ion etching) in depth-profiling XPS, exposure to heat to study the changes due to heating, exposure to reactive gases or solutions, exposure to ion beam implant, exposure to ultraviolet light.

XPS is also known as ESCA (Electron Spectroscopy for Chemical Analysis).

USA is the largest market with about 39% market share. Europe and Japan are follower.

The main manufacturers are Kratos Analytical, ThermoFisher Scientific, ULVAC, Scienta Omicron, JEOL, ReVera Incorporated, VSW, STAIB Instruments etc. Kratos Analytical is the largest manufacturer with about 19% revenue market share.

The Global Info Research report includes an overview of the development of the X-ray Photoelectron Spectroscopy (XPS) industry chain, the market status of Biomedicine (Monochromatic, Non-monochromatic), Chemical (Monochromatic, Non-monochromatic), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of X-ray Photoelectron Spectroscopy (XPS).

Regionally, the report analyzes the X-ray Photoelectron Spectroscopy (XPS) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global X-ray Photoelectron Spectroscopy (XPS) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the X-ray Photoelectron Spectroscopy (XPS) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the X-ray Photoelectron Spectroscopy (XPS) industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Monochromatic, Non-monochromatic).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the X-ray Photoelectron Spectroscopy (XPS) market.

**Regional Analysis:** The report involves examining the X-ray Photoelectron Spectroscopy (XPS) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer

behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the X-ray Photoelectron Spectroscopy (XPS) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to X-ray Photoelectron Spectroscopy (XPS):

**Company Analysis:** Report covers individual X-ray Photoelectron Spectroscopy (XPS) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards X-ray Photoelectron Spectroscopy (XPS) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Biomedicine, Chemical).

**Technology Analysis:** Report covers specific technologies relevant to X-ray Photoelectron Spectroscopy (XPS). It assesses the current state, advancements, and potential future developments in X-ray Photoelectron Spectroscopy (XPS) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the X-ray Photoelectron Spectroscopy (XPS) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

X-ray Photoelectron Spectroscopy (XPS) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

## Market segment by Type

Monochromatic

Non-monochromatic

## Market segment by Application

Biomedicine

Chemical

Material

Electronic

Others

## Major players covered

Kratos Analytical

ThermoFisher Scientific

ULVAC

Scienta Omicron

JEOL

ReVera Incorporated

VSW

STAIB Instruments

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 X-ray Photoelectron Spectroscopy (XPS) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of X-ray Photoelectron Spectroscopy (XPS), with price, sales, revenue and global market share of X-ray Photoelectron Spectroscopy (XPS) from 2019 to 2024.

Chapter 3, the X-ray Photoelectron Spectroscopy (XPS) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the X-ray Photoelectron Spectroscopy (XPS) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and X-ray Photoelectron Spectroscopy (XPS) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 X-ray Photoelectron Spectroscopy (XPS).

Chapter 14 and 15, to describe X-ray Photoelectron Spectroscopy (XPS) sales channel, distributors, customers, research findings and conclusion.

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