

Europe Gamma Ray Spectroscopy Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Type (Hardware, Software, and Services) and End-User (Space Research, Nuclear Facilities, and Mineral Exploration)

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Abstracts

The Europe gamma ray spectroscopy market is expected to grow from US\$ 213.62 million in 2022 to US\$ 303.59 million by 2028. It is estimated to grow at a CAGR of 6.0% from 2022 to 2028.

Increased Preference for Gamma Rays in Medical Industry is Fueling the Europe Gamma Ray Spectroscopy Market

Gamma rays are more energetic than X-rays and have a stronger ionizing ability than X-rays. They are preferred (within a prescribed limit) in the medical industry to kill cancer cells or sterilize medical equipment. Gamma rays are used in cancer screening devices and surgical procedures for the removal of tumours. Due to the high penetration level of gamma rays compared to alpha and beta radiation, they are used for medical imaging. In this process, a gamma source enters the patient's body, and the radiation that comes from the patient's body is detected using a gamma camera. Further, gamma ray spectrometry is used to monitor and assess the amount of radiation. Therefore, growing preference for gamma rays in medical industry is expected to drive the Europe gamma ray spectroscopy market .

Europe Gamma Ray Spectroscopy Market Overview

The Europe gamma ray spectroscopy market is segmented into Germany, Italy, France, the UK, Russia, and the Rest of Europe. According to Bundesamt f?r Strahlenschutz,

Germany has ~100,000 radioactive sources that are sealed and used in medicine, agriculture, and research industries. According to the Atomic Energy Act and Radiation Protection Act, these radioactive sources are used under government supervision and require a license. The UK has around eight nuclear facilities. The UK government is planning to derive a quarter of the country's energy from nuclear facilities. The Russian Federation is one of the world's leading providers of nickel, iron ore, coal, diamond, aluminum, uranium, palladium, platinum, and gold. It accounts for 14% of the total mineral extraction in the world. The gamma ray spectrometer is used for mineral exploration, which is one of the factors fueling the growth of the Europe gamma ray spectroscopy market.

Europe Gamma Ray Spectroscopy Market Revenue and Forecast to 2028 (US\$ Million)

Europe Gamma Ray Spectroscopy Market Segmentation

The Europe gamma ray spectroscopy market is segmented based on type, end-user, and country.

Based on type, the Europe gamma ray spectroscopy market is segmented into hardware, software, and services. The hardware segment held the largest market share in 2022.

Based on end-user, the Europe gamma ray spectroscopy market is segmented into space research, nuclear facilities, and mineral exploration. The nuclear facilities segment held the largest market share in 2022.

Based on country, the Europe gamma ray spectroscopy market has been categorized into the UK, Germany, France, Italy, Russia, and the Rest of Europe. Our regional analysis states that Germany dominated the market share in 2022.

AMETEK Inc.; ANTECH; ATOMTEX; CAEN S.p.A.; Geomatrix Earth Science Ltd; Linde Plc; Mirion Technologies, Inc.; NATS, Inc.; NUVIATech Instruments; and Sander Geophysics Limited are the leading companies operating in the Europe gamma ray spectroscopy market.

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