

Middle East & Africa 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 MEA gamma ray spectroscopy market is expected to grow from US\$ 46.33 million in 2022 to US\$ 59.23 million by 2028. It is estimated to grow at a CAGR of 4.2% from 2022 to 2028.

Use of Lightweight Gamma Ray Spectrometers Fuels the MEA Gamma Ray Spectroscopy Market

The lightweight gamma ray spectrometers can be used in unmanned aerial vehicles (UAVs) for field spectroscopy. The airborne gravitational reference sensor (GRS) measurements can be utilized to determine radionuclide concentrations in the ground. For the GRS sensors' successful applications, the correct measurement of absolute values of concentrations is necessary. For the correct measurement of height from the ground, the airborne gamma ray data must determine the absolute radionuclide concentrations. A lightweight CeBr₃ gamma ray spectrometer was developed for the small UAV radiation monitoring systems. Several trial runs were conducted post development, which resulted in generating high energy resolution that ultimately helped users gain substantial data. The companies started offering lightweight gamma ray spectrometers due to its varied applications in end-user industries. For instance, Geo-Matching offers MS-1000, a gamma ray detector for UAVs. Thus, the high adoption of gamma ray spectrometers in UAVs bring in lucrative growth opportunities for the gamma ray spectroscopy manufacturers across the region, thereby driving the MEA gamma ray spectroscopy market .

Market Overview

The MEA gamma ray spectroscopy market is segmented into South Africa, Saudi Arabia, the UAE, and the Rest of MEA. The countries in the region are mostly active in the oil & gas industry; however, the governments are now focusing on mineral exploration. For instance, in December 2021, the government of Saudi Arabia used RS-700 gamma ray spectroscopy devices to collect information about the minerals present in the country's soil. The governments of the aforesaid countries are expected to bring initiatives that will positively influence the gamma ray spectroscopy market growth in the region.

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

MEA Gamma Ray Spectroscopy Market Segmentation

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

Based on type, the MEA 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 MEA 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 MEA gamma ray spectroscopy market has been categorized into the UAE, Saudi Arabia, South Africa, and the Rest of MEA. Our regional analysis states that the UAE dominated the market share in 2022.

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

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