

## **South America 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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### **AVAILABLE LICENSES:**

- Single User Price \$3000.00
- Site Price \$4000.00
- Enterprise Price \$5000.00

### **Report description:**

The SAM gamma ray spectroscopy market is expected to grow from US\$ 28.86 million in 2022 to US\$ 34.81 million by 2028. It is estimated to grow at a CAGR of 3.2% from 2022 to 2028.

Use of Lightweight Gamma Ray Spectrometers is Driving the SAM 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, thereby driving the SAM gamma ray spectroscopy market during forecast period.

SAM Gamma Ray Spectroscopy Market Overview

The SAM gamma ray spectroscopy market is segmented into Brazil, Argentina, and the Rest of SAM. Brazil was the second-largest iron ore producer in 2020. Chile and Argentina hold up to 60% of the global reserve of lithium in the world. Gamma ray

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spectroscopy plays a major role in extracting materials such as porphyry copper and massive sulfides. For instance, in June 2022, Bravo Mining Corporation's Luanga platinum group metals project was selected as a "Strategic Mineral Project" by the Government of Brazil. For such projects, gamma ray spectroscopy will be needed to detect the exact location of minerals. Brazil is known for its aerospace and research industries. In June 2022, the Brazilian Space Agency and Amazon Web Services (AWS) signed a strategic agreement where they will be working on ionosphere research and many other projects. The agreement among the two entities is expected to demand a significant number of gamma ray spectrometers, which is further expected to bolster the gamma ray spectroscopy market in the SAM region over the next few years.

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

SAM Gamma Ray Spectroscopy Market Segmentation

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

Based on type, the SAM 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 SAM 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 SAM gamma ray spectroscopy market has been categorized into Brazil, Argentina, and the Rest of SAM. Our regional analysis states that Brazil dominated the market share in 2022.

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

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