

Global Portable Field 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 Field Spectrometer market size was valued at US\$ 432 million in 2025 and is forecast to a readjusted size of US\$ 707 million by 2032 with a CAGR of 7.3% during review period.

Portable ground object spectrometers are high-precision, mobile optical instruments used to measure the spectral reflectance and radiation characteristics of ground objects in field environments. They typically cover the visible (VIS), near-infrared (NIR), and short-wave infrared (SWIR) bands and can be used to analyze material composition, vegetation health, soil properties, and mineral characteristics. Compared to handheld devices, portable spectrometers generally offer higher optical stability, better signal-to-noise ratios, and stronger measurement capabilities, while maintaining mobility in the field via backpacks or tripods. The upstream of the industry chain includes suppliers of optical components (lenses, gratings, detectors), light sources, precision electronic components, and embedded computing modules; the midstream consists of equipment manufacturers responsible for system integration, spectral calibration, ruggedized structure design, and analytical software development; downstream applications include precision agriculture, geological exploration, environmental monitoring, forestry surveys, and geospatial remote sensing services. In 2025, the global production of portable ground object spectrometers was approximately 15,273 units, with an average market price of approximately US\$27,500 per unit. The gross profit margin of major companies in the industry is approximately 42%–60%. Global production capacity is estimated at approximately 20,364 units in 2025.

The Portable Field Spectrometer market is expanding steadily, driven by increasing demand for high-precision field-based spectral analysis across multiple industries.

Precision agriculture is a key growth driver, enabling real-time assessment of crop health, soil nutrients, and irrigation optimization. In geological and mining applications, portable spectrometers are widely used for rapid mineral identification and exploration efficiency improvement. Environmental monitoring and forestry management also contribute significantly to demand growth. Technological advancements in optical resolution, detector sensitivity, battery life, and rugged field design are improving usability and performance in harsh environments. Integration with GIS platforms, cloud analytics, and AI-based interpretation systems is further enhancing data value. However, relatively high equipment costs and the need for technical expertise limit broader adoption. Despite this, strong demand from research institutions and high-value industrial sectors supports sustained long-term growth.

This report is a detailed and comprehensive analysis for global Portable Field 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 Field Spectrometer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Portable Field 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 Field 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 Field 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 Field 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 Field 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 SVC, Spectral Evolution, Malvern Panalytical, StellarNet, Avantes, Optosky (Xiamen) Technology Inc., Shanghai Oceanhood opto-electronics Tech Co., Ltd., CHNSpec technology, Lisen Optics (Shenzhen) Co., Ltd., Beijing LICA United Technology Limited, etc.

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

Market Segmentation

Portable Field 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

8 Megapixels

12 Megapixels

Others

Market segment by Spectral Range

Visible-NIR Spectrometer

Full-Range (VNIR+SWIR) Spectrometer

Shortwave Infrared Spectrometer

Market segment by Device Form

Handheld Field Spectrometer

Backpack Portable Spectrometer System

Tripod-Mounted Field Spectrometer

Market segment by Application

Remote Sensing Measurement

Crop Monitoring

Forest Research

Marine Research

Aquaculture

Scientific Research and Teaching

Others

Major players covered

SVC

Spectral Evolution

Malvern Panalytical

StellarNet

Avantes

Optosky (Xiamen) Technology Inc.

Shanghai Oceanhood opto-electronics Tech Co., Ltd.

CHNSpec technology

Lisen Optics (Shenzhen) Co., Ltd.

Beijing LICA United Technology Limited

Beijing GOLDEN Way Scientific Co., Ltd.

Ocean Optics (SHANGHAI) Co., Ltd.

Sichuan Shuangli Hepu Technology Co., Ltd.

Azup Technologies

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 Field Spectrometer product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Portable Field 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 Field Spectrometer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Field Spectrometer.

Chapter 14 and 15, to describe Portable Field Spectrometer sales channel, distributors, customers, research findings and conclusion.

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