

Global Handheld Field Spectrometer Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G2150612EE67EN.html>

Date: June 2026

Pages: 122

Price: US\$ 4,480.00 (Single User License)

ID: G2150612EE67EN

Abstracts

The global Handheld Field Spectrometer market size is expected to reach \$ 498 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

A handheld ground object spectrometer is a portable optical instrument used to measure the spectral reflectance or radiation characteristics of surface targets within different wavelength ranges, typically covering the visible to near-infrared (VNIR) and short-wave infrared (SWIR) bands. By acquiring spectral characteristics, material composition, vegetation health, soil properties, and environmental information can be analyzed. This device is widely used in remote sensing calibration, precision agriculture, mineral exploration, environmental monitoring, and scientific research. Its portability enables real-time on-site data acquisition. The upstream of the industry chain includes suppliers of optical components, gratings, detectors, light sources, and embedded electronic components; the midstream consists of equipment manufacturers responsible for system integration, spectral calibration algorithms, data analysis software development, and overall assembly; downstream applications include research institutions, agricultural monitoring departments, mining companies, environmental organizations, and geographic information service agencies. In 2025, the global production of handheld ground object spectrometers was approximately 13,111 units, with an average market price of approximately US\$22,500 per unit. The gross profit margin of major companies in the industry was approximately 40%–58%. Global production capacity in 2025 was approximately 17,481 units.

The Handheld Field Spectrometer market is growing steadily due to increasing demand for high-precision field data in agriculture, environmental monitoring, and geospatial analysis. The rise of precision agriculture is a key driver, as farmers and agronomists

seek real-time insights into crop health, soil conditions, and nutrient status. Additionally, these instruments play a critical role in calibrating satellite and drone-based remote sensing systems. Technological advancements in miniaturization, spectral resolution, and data processing are improving device performance and usability. Integration with mobile platforms and cloud-based analytics is further expanding application possibilities. However, the market remains relatively specialized, with high equipment costs limiting widespread adoption. Despite this, increasing demand for data-driven decision-making and sustainable resource management is expected to support long-term growth.

This report studies the global Handheld Field Spectrometer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Handheld Field Spectrometer and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Handheld Field Spectrometer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Handheld Field Spectrometer total production and demand, 2021-2032, (Units)

Global Handheld Field Spectrometer total production value, 2021-2032, (USD Million)

Global Handheld Field Spectrometer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Handheld Field Spectrometer consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Handheld Field Spectrometer domestic production, consumption, key domestic manufacturers and share

Global Handheld Field Spectrometer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Handheld Field Spectrometer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Handheld Field Spectrometer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Handheld Field Spectrometer market based on the following parameters - company overview, production, value, 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, UPRtek, Optosky (Xiamen) Technology Inc., Shanghai Oceanhood opto-electronics Tech Co., Ltd., CHN Spec Technology (Zhejiang) Co., Ltd, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Handheld Field Spectrometer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Handheld Field Spectrometer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Handheld Field Spectrometer Market, Segmentation by Type:

8 Megapixels

12 Megapixels

Others

Global Handheld Field Spectrometer Market, Segmentation by Spectral Range:

Visible-NIR Spectrometer

Full-Range (VNIR+SWIR) Spectrometer

Shortwave Infrared Spectrometer

Global Handheld Field Spectrometer Market, Segmentation by Resolution:

High-Resolution Field Spectrometer

Ultra-High Resolution Spectrometer

Standard Resolution Spectrometer

Global Handheld Field Spectrometer Market, Segmentation by Application:

Remote Sensing Measurement

Crop Monitoring

Forest Research

Marine Research

Aquaculture

Scientific Research and Teaching

Others

Companies Profiled:

SVC

Spectral Evolution

Malvern Panalytical

StellarNet

UPRtek

Optosky (Xiamen) Technology Inc.

Shanghai Oceanhood opto-electronics Tech Co., Ltd.

CHN Spec Technology (Zhejiang) Co., Ltd

Lisen Optics (Shenzhen) Co., Ltd.

Beijing LICA United Technology Limited

Beijing GOLDEN Way Scientific Co., Ltd.

Ocean Optics (SHANGHAI) Co., Ltd.

Key Questions Answered:

1. How big is the global Handheld Field Spectrometer market?
2. What is the demand of the global Handheld Field Spectrometer market?
3. What is the year over year growth of the global Handheld Field Spectrometer market?
4. What is the production and production value of the global Handheld Field Spectrometer market?
5. Who are the key producers in the global Handheld Field Spectrometer market?
6. What are the growth factors driving the market demand?

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