

Global Mobile NIR Spectrometers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Mobile NIR Spectrometers market size is expected to reach \$ 352 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

Mobile Near-Infrared (NIR) spectrometers are ultra-compact, handheld analytical instruments that bring the laboratory's precision directly into the field for non-destructive material analysis. Utilizing the 700 nm to 2500 nm light spectrum, these devices identify and quantify the chemical composition of substances by measuring how they absorb and reflect infrared light. Unlike traditional benchtop units, mobile NIR spectrometers leverage miniaturized Micro-Electro-Mechanical Systems (MEMS) and Digital Light Processing (DLP) technology to fit a full optical engine into a pocket-sized form factor. In 2026, these devices are increasingly 'AI-native,' utilizing cloud-based machine learning models to provide instantaneous results for applications such as crop ripeness testing, pharmaceutical authentication, and plastic recycling sorting. Their ability to deliver 'point-of-need' data without sample preparation has transformed them from niche scientific tools into essential hardware for real-time quality control across global supply chains.

In 2025, global Mobile NIR Spectrometers production reached approximately 20.18 k units, with an average global market price of around US\$ 10257 per unit. And global Mobile NIR Spectrometers production capacity reached approximately 25 k units. The average gross margin in this industry reached 29.84%.

The upstream supply chain for mobile NIR spectrometers is a high-tech sector focused on the miniaturization of optical and electronic components. The production of these units relies on specialized infrared detectors (typically Indium Gallium Arsenide, or InGaAs), micro-interferometers, and high-stability broadband light sources. Key

upstream suppliers include Hamamatsu Photonics (providing ultra-compact InGaAs PIN photodiodes and integrated FTIR engines), Texas Instruments (supplying the DLP? NIR digital micromirror devices that enable programmable wavelength selection), and Broadcom Limited (delivering high-performance MEMS-based spectral sensors and Qwave modules). These suppliers provide the foundational 'optical chips' that allow for a reduction in size without a proportional loss in signal-to-noise ratio or spectral resolution.

The downstream segment involves the integration of these sensors into ruggedized hardware and the development of proprietary chemometric software for specific industry use cases. At this stage, value is generated through 'calibration-as-a-service,' where vendors provide updated spectral libraries for different materials. Major downstream customers and high-volume institutional users include BASF (trinamiX) (deploying mobile spectrometers for onsite plastic and textile recycling identification), John Deere (integrating NIR technology into mobile units for real-time grain nutrient and moisture analysis during harvest), and Thermo Fisher Scientific (utilizing mobile platforms for rapid, field-based pharmaceutical 'fingerprinting' and narcotics identification). The downstream market in 2026 is currently being driven by a surge in 'citizen science' and decentralized food safety testing, where mobile spectrometers allow retailers and farmers to verify product authenticity instantly at the point of sale.

This report studies the global Mobile NIR Spectrometers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mobile NIR Spectrometers 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 Mobile NIR Spectrometers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Mobile NIR Spectrometers total production and demand, 2021-2032, (K Units)

Global Mobile NIR Spectrometers total production value, 2021-2032, (USD Million)

Global Mobile NIR Spectrometers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Mobile NIR Spectrometers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Mobile NIR Spectrometers domestic production, consumption, key domestic manufacturers and share

Global Mobile NIR Spectrometers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Mobile NIR Spectrometers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Mobile NIR Spectrometers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Mobile NIR Spectrometers 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 Bruker, BUCHI, HORIBA, Galaxy Scientific, VIAVI Solutions, Zeiss Spectroscopy, Focused Photonics, Kett Electric Laboratory, trinamiX, Spectral Evolution, 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 Mobile NIR Spectrometers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Mobile NIR Spectrometers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mobile NIR Spectrometers Market, Segmentation by Type:

Handheld

Benchtop

Global Mobile NIR Spectrometers Market, Segmentation by Wavelength Range:

780?1100 nm

900?1700 nm

1000?2500 nm

Others

Global Mobile NIR Spectrometers Market, Segmentation by Detector Type:

InGaAs Detector

Silicon Detector

Others

Global Mobile NIR Spectrometers Market, Segmentation by Application:

Agriculture

Food

Pharmaceutical

Chemical

Others

Companies Profiled:

Bruker

BUCHI

HORIBA

Galaxy Scientific

VIAVI Solutions

Zeiss Spectroscopy

Focused Photonics

Kett Electric Laboratory

trinamiX

Spectral Evolution

B&W Tek

fzmb

StellarNet

Hongke

Key Questions Answered:

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

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