

# Global Handheld Vector Network Analyzers Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Handheld Vector Network Analyzers market size is expected to reach \$ 755 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

A handheld vector network analyzer is a portable radio frequency (RF) test instrument used to measure network parameters such as S-parameters, impedance, and return loss. It supports on-site testing, installation, and maintenance of antennas, cables, filters, and RF devices within specified frequency bands, and is widely used in communications, aerospace, defense, and electronics manufacturing. The handheld vector network analyzer industry chain includes upstream RF chips, signal generators, receiver modules, analog-to-digital converters, processors, displays, batteries, and casings; midstream components include assembly, firmware development, calibration, and performance verification; and downstream applications cover communication base station construction, RF equipment manufacturing, system maintenance, teaching and research, and technical service support. In 2025, the global production of handheld vector network analyzers is estimated at 323,333 units, with an average global market price of approximately US\$1,500 per unit. The gross profit margins of major players in the industry range from 45% to 65%. In 2025, the global production capacity of handheld vector network analyzers is estimated at 431,000 units.

The handheld vector network analyzer (VNA) market is relatively niche compared to the overall market for electronic testing equipment. Due to their specialization and higher price points, adoption rates are lower than those seen among general purpose oscilloscopes, multimeters, etc. As with many B2B electronics markets, it's heavily concentrated around large OEMs in Asia and North America supplying into defense/military applications, automotive engineering, telecommunications infrastructure providers and semiconductor design houses. The main factors driving the market growth include expanding 5G wireless deployments, IoT expansion and

emerging economies looking to upgrade existing infrastructure quickly. Large international corporations dominate the market share; examples being Keysight Technologies, National Instruments and Anritsu. With the rise in popularity of modular instruments and FPGA based solutions look for a shift towards commoditization potentially impacting margins for incumbents in the future.

This report studies the global Handheld Vector Network Analyzers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Handheld Vector Network Analyzers 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 Vector Network Analyzers that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Handheld Vector Network Analyzers total production and demand, 2021-2032, (K Units)

Global Handheld Vector Network Analyzers total production value, 2021-2032, (USD Million)

Global Handheld Vector Network Analyzers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Handheld Vector Network Analyzers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Handheld Vector Network Analyzers domestic production, consumption, key domestic manufacturers and share

Global Handheld Vector Network Analyzers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Handheld Vector Network Analyzers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Handheld Vector Network Analyzers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Handheld Vector Network Analyzers 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 Anritsu, Keysight Technologies, Rohde & Schwarz, Advantest, Dongguan Qihang Electronic Technology, Transcom Instruments, Copper Mountain Technologies, National Instrument, GS Instrument, OMICRON Lab, 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 Vector Network Analyzers market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Vector Network Analyzers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Handheld Vector Network Analyzers Market, Segmentation by Type:

Frequency Range 0-10 GHz

Frequency Range 10-30 GHz

Frequency Range Above 30 GHz

Global Handheld Vector Network Analyzers Market, Segmentation by Port Configuration:

Single-Port Handheld VNA

Two-Port Handheld VNA

Multi-Port Handheld VNA

Global Handheld Vector Network Analyzers Market, Segmentation by Frequency Range:

Low-Frequency Handheld VNA

Microwave Handheld VNA

mmWave Handheld VNA

Global Handheld Vector Network Analyzers Market, Segmentation by Application:

Communications

Automotive

Electronic Manufacturing

Aerospace and Defense

Others

### **Companies Profiled:**

Anritsu

Keysight Technologies

Rohde & Schwarz

Advantest

Dongguan Qihang Electronic Technology

Transcom Instruments

Copper Mountain Technologies

National Instrument

GS Instrument

OMICRON Lab

PocketVNA

Deepace

Silent Technologies

Avalon Test Equipment

GOmeasure

Viavi Solutions

NanoVNA

Saluki Technology

### **Key Questions Answered:**

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

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