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Global Specific Absorption Rate(SAR) Probe Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GD0C93C38772EN.html
Date: September 2026
Pages: 96
Price: US$ 3,480.00 (Single User License)
ID: GD0C93C38772EN

Abstracts

According to our (Global Info Research) latest study, the global Specific Absorption Rate(SAR) Probe market size was valued at US$ 77.79 million in 2025 and is forecast to a readjusted size of US$ 122 million by 2032 with a CAGR of 6.2% during review period.

In 2025, global sales volume for Specific Absorption Rate (SAR) probes was approximately 4,200 units, with an average global market price of around $18,000 per unit. That year, total global production capacity for SAR probes reached approximately 5,600 units per year, and the industry's average gross profit margin stood at about 55%. A Specific Absorption Rate (SAR) probe is a precision sensor used to measure the strength of radio-frequency (RF) electric fields within human body phantoms and to calculate the level of electromagnetic energy absorption from wireless devices. These products typically feature a miniature tri-axial isotropic electric field probe structure capable of simultaneously detecting electric field components in three orthogonal directions while scanning within head or torso phantoms filled with tissue-simulating liquid. Based on the measured electric field strength, as well as the conductivity and density of the simulating liquid, the SAR testing system calculates the local specific absorption rate (measured in W/kg). These systems are primarily used for RF exposure compliance testing of mobile phones, tablets, wearable devices, wireless communication terminals, and antennas. Key performance indicators include frequency range, isotropy error, dynamic range, linearity, spatial resolution, probe tip dimensions, sensitivity, and calibration uncertainty.

Upstream components primarily include miniature dipole or electric field sensing elements, Schottky detector diodes, low-dielectric-constant probe shafts, optical fibers

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or high-impedance transmission lines, precision resistors and capacitors, low-noise signal conditioning circuits, photoelectric converters, connectors, and calibration standards. Ancillary materials include raw ingredients for tissue-simulating liquids, human body phantoms, dielectric parameter measurement sensors, RF power sources, power amplifiers, and reference antennas. Because the probe must maintain minimal electromagnetic disturbance, high isotropy, and stable sensitivity within a liquid environment, factors such as the dielectric properties of upstream materials, sensor consistency, packaging hermeticity, and traceable calibration capabilities directly impact measurement accuracy. The midstream sector consists mainly of SAR probe manufacturers, SAR testing system suppliers, and metrology/calibration service providers; they are responsible for probe structural design, integration of tri-axial sensing units, development of signal acquisition circuits, frequency response compensation, sealing for liquid environments, probe calibration, and uncertainty assessment. SAR probes generally do not operate in isolation but function as part of a complete system comprising a six-axis robot or 3D scanning platform, a human body phantom, a data acquisition unit, dielectric measurement equipment, and SAR calculation software. Technical barriers in the industry center on probe miniaturization, wide frequency coverage, low-disturbance near-field measurement, consistency of tri-axial response, automatic scanning algorithms, and the traceability of calibration data. Downstream sectors primarily include manufacturers of smartphones and wireless terminals, communication equipment enterprises, wearable device vendors, automotive wireless electronics companies, and manufacturers of antennas and RF modules, as well as third-party testing and certification laboratories, government regulatory laboratories, universities, and research institutions. Typical applications encompass SAR testing for mobile phones (head and body exposure), wireless exposure testing for tablets and laptops, testing for wearables such as smartwatches, and compliance verification for Wi-Fi, Bluetooth, cellular communication, and other RF-enabled devices. With the expansion of wireless device frequency bands and the widespread adoption of multi-antenna and carrier aggregation technologies, SAR measurement is evolving toward wider frequency ranges, smaller probe sizes, higher scanning efficiency, and automated multi-device testing.

The development of Specific Absorption Rate (SAR) measurement probes has been primarily driven by the proliferation of wireless devices and the expansion of regulatory requirements regarding RF exposure compliance. Devices such as smartphones, tablets, laptops, smartwatches, wireless headsets, AR/VR gear, and IoT terminals increasingly integrate multiple wireless technologies—including cellular, Wi-Fi, Bluetooth, and NFC—while the operating distance between the device and the human body continues to shrink. Technologies such as multi-antenna arrays, carrier aggregation,

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and simultaneous transmission have further complicated exposure assessment, compelling device manufacturers and third-party testing laboratories to continuously acquire, upgrade, and calibrate SAR measurement probes.

The adoption of 5G, Wi-Fi 6E/7, and new frequency bands serves as a key technological driver. While traditional probes typically covered the range from several hundred MHz to 6 GHz, current products are extending their reach toward 10 GHz and enhancing measurement accuracy in environments characterized by steep field gradients and complex modulated signals. As antenna sizes decrease and the proximity to the human body narrows, SAR distributions exhibit sharper variations; consequently, the industry demands probes featuring miniaturized tips, reduced sensor offset distances, higher spatial resolution, superior isotropy, and minimal field perturbation.

Future product technology will evolve toward broadband capability, miniaturization, high dynamic range, and digital calibration. Next-generation probes will incorporate compact tri-axial sensing units, low-dielectric-constant packaging materials, low-noise detection circuits, and fiber-optic or high-impedance signal transmission structures, while utilizing frequency response compensation and modulation-dependent correction to ensure accuracy with complex signals. Furthermore, these probes will integrate features such as automatic identification, collision protection, liquid level detection, temperature compensation, and calibration databases to minimize manual configuration errors and reduce the time required to switch between frequency bands, tissue-simulating liquids, and device configurations.

Report Scope

This report is a detailed and comprehensive analysis for global Specific Absorption Rate(SAR) Probe 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 Specific Absorption Rate(SAR) Probe market size and forecasts, in consumption

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value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Specific Absorption Rate(SAR) Probe market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Specific Absorption Rate(SAR) Probe market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Specific Absorption Rate(SAR) Probe market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (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 Specific Absorption Rate(SAR) Probe

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 Specific Absorption Rate(SAR) Probe 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 IndexSAR, SPEAG, Microwave Vision Group, APREL, KAPTEOS, TDK RF Solutions, etc.

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

Specific Absorption Rate(SAR) Probe 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

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markets.

Market Segmentation

Market segment by Type

Tri-axial Isotropic SAR Probe

Single-sensor Rotating SAR Probe

Dual-axis or Quasi-vector Probe

Array-type SAR Probe

Market segment by Maximum Operating Frequency

Low-frequency and Conventional Cellular (up to 3 GHz)

Medium-to-high Frequency(3–6 GHz)

Wideband(6–10 GHz)

Millimeter Wave (above 10 GHz)

Market segment by Measurement Principle

Miniature Dipole-diode Detector Probe

Electro-optic Probe

Temperature-rise Dosimetric Probe

Frequency-selective Probe

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Market segment by Operating Medium

Tissue-mimicking Fluid Probe

Universal Probe (Air/Liquid)

Others

Market segment by Application

Smartphones and Cellular Communication Terminals

Tablets and Portable Computing Devices

Wearable and Body-worn Wireless Devices

IoT and Other Short-range Wireless Devices

Medical Devices and Scientific Research Applications

Major players covered

IndexSAR

SPEAG

Microwave Vision Group

APREL

KAPTEOS

TDK RF Solutions

Market segment by region, regional analysis covers

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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)

Chapter Outline

Chapter 1, to describe Specific Absorption Rate(SAR) Probe product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top manufacturers of Specific Absorption Rate(SAR) Probe, with price, sales quantity, revenue, and global market share of Specific Absorption Rate(SAR) Probe from 2021 to 2026.
Chapter 3, the Specific Absorption Rate(SAR) Probe competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.
Chapter 4, the Specific Absorption Rate(SAR) Probe 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 Specific Absorption Rate(SAR) Probe 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 Specific Absorption Rate(SAR) Probe.
Chapter 14 and 15, to describe Specific Absorption Rate(SAR) Probe sales channel, distributors, customers, research findings and conclusion.

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