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Global Specific Absorption Rate(SAR) Probe Market Growth 2026-2032

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Abstracts

The global Specific Absorption Rate(SAR) Probe market size is predicted to grow from US$ 73.96 million in 2025 to US$ 119 million in 2032; it is expected to grow at a CAGR of 6.6% from 2026 to 2032.

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 or high-impedance transmission lines, precision resistors and capacitors, low-noise signal conditioning circuits, photoelectric converters, connectors, and calibration

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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, and simultaneous transmission have further complicated exposure assessment, compelling device manufacturers and third-party testing laboratories to continuously

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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

LP Information, Inc. (LPI) ' newest research report, the “Specific Absorption Rate(SAR) Probe Industry Forecast” looks at past sales and reviews total world Specific Absorption Rate(SAR) Probe sales in 2025, providing a comprehensive analysis by region and market sector of projected Specific Absorption Rate(SAR) Probe sales for 2026 through 2032. With Specific Absorption Rate(SAR) Probe sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Specific Absorption Rate(SAR) Probe industry.

This Insight Report provides a comprehensive analysis of the global Specific Absorption Rate(SAR) Probe landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Specific Absorption Rate(SAR) Probe portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Specific Absorption Rate(SAR) Probe

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market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Specific Absorption Rate(SAR) Probe and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Specific Absorption Rate(SAR) Probe.

This report presents a comprehensive overview, market shares, and growth opportunities of Specific Absorption Rate(SAR) Probe market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Tri-axial Isotropic SAR Probe

Single-sensor Rotating SAR Probe

Dual-axis or Quasi-vector Probe

Array-type SAR Probe

Segmentation 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)

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Segmentation by Measurement Principle:

Miniature Dipole-diode Detector Probe

Electro-optic Probe

Temperature-rise Dosimetric Probe

Frequency-selective Probe

Segmentation by Operating Medium:

Tissue-mimicking Fluid Probe

Universal Probe (Air/Liquid)

Others

Segmentation 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

This report also splits the market by region:

Americas

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United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

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Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

IndexSAR

SPEAG

Microwave Vision Group

APREL

KAPTEOS

TDK RF Solutions

Key Questions Addressed in this Report

What is the 10-year outlook for the global Specific Absorption Rate(SAR) Probe market?

What factors are driving Specific Absorption Rate(SAR) Probe market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Specific Absorption Rate(SAR) Probe market opportunities vary by end market size?

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How does Specific Absorption Rate(SAR) Probe break out by Type, by Application?

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