

Global Far-Field Speech and Voice Recognition
Market Size study & Forecast, by Component
(Microphones, Digital Signal Processors, Software),
by Microphone Solution (Single Microphone Linear
Arrays, Circular Arrays), by Application (Smart
TV/STB, Smart Speakers, Automotive, Robotics,
Others), and Regional Analysis, 2023-2030

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Abstracts

Global Far-Field Speech and Voice Recognition Market is valued approximately USD 3.3 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 13.1% over the forecast period 2023-2030. Far-Field Speech and Voice Recognition refers to the technology and systems designed to accurately capture, interpret, and respond to spoken commands and interactions from a distance. Unlike near-field speech recognition, far-field technology enables voice-based communication in larger spaces and noisy environments, utilizing advanced algorithms, beamforming, and noise cancellation techniques to enhance speech recognition accuracy and enable hands-free control of devices and applications. The market drivers boosting the market growth are increasing demand for Voice-Activated devices and growing demand of Virtual Assistants and Voice-Enabled AI.

According to Statista, by 2024, the global number of digital voice assistants is projected to exceed 8.4 billion units, surpassing the world's population, indicating widespread adoption and integration of voice-enabled technologies. Virtual assistants, such as Amazon Alexa, Google Assistant, and Apple Siri, have become integral parts of consumers' daily lives. Far-field speech and voice recognition technology enable accurate and efficient voice interactions with these virtual assistants, driving their widespread adoption and integration into various devices and applications. Moreover,



advancements in noise cancellation algorithms and Natural Language Processing (NLP) may create abundant opportunities for the market. However, the lack of standardization along with the high threat to privacy and security stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Far-Field Speech and Voice Recognition Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the strong presence of key market players, high consumer adoption of voice-activated devices, and significant investments in research and development. Additionally, North America's advanced infrastructure, favorable regulatory environment, and technological advancements contribute to its leadership in the market. However, Asia Pacific is expected to become the fastest growing during the forecast period, owing to factors such as rapid adoption of voice-activated devices, increasing smartphone penetration, and growing investments in artificial intelligence and natural language processing technologies.

Major market player included in this report are:

Qualcomm, Inc.

STMicroelectronics N.V.

Harman International

Synaptics Incorporated

Knowles Corporation

NXP Semiconductors

Andrea Electronics

Microchip Technology Inc.

Infineon Technologies AG

Cirrus Logic Inc.

Recent Developments in the Market:

In February 2023, Infineon Technologies AG launched a low-power PDM microphone, specifically designed for applications like wireless earbuds, over-ear headsets, and hearing enhancement devices. The microphone's ultra-low power consumption makes it an ideal choice for these applications, providing efficient and high-performance audio capture.

In January 2023, HARMAN International, a leading audio and connected technologies company, announced the launch of its Sound and Vibration Sensor and External Microphone products at CES 2023. These innovative offerings are designed to enhance audio quality and enable precise sound detection and measurement in various



applications.

Global Far-Field Speech and Voice Recognition Market Report Scope:

Historical Data - 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape,

Growth factors, and Trends

Segments Covered – Component, Microphone Solution, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East &

Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

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The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Component:
Microphones
Digital Signal Processor
Software

By Microphone Solution: Single Microphone Linear Arrays Circular Arrays

By Application: Smart TV/STB Smart Speakers Automotive



Robotics

Others			
By Region:			
North America U.S. Canada			
Europe UK Germany France Spain Italy			
ROE			
Asia Pacific China India			
Japan Australia			
South Korea			

Latin America

Brazil

Mexico

Middle East & Africa
Saudi Arabia
South Africa
Rest of Middle East & Africa



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