

MEMS Microphones Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global MEMS microphones market size reached US\$ 1.8 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 3.4 Billion by 2028, exhibiting a growth rate (CAGR) of 11.3% during 2023-2028.

Micro-electro-mechanical system (MEMS) microphones are electro-acoustic transducers containing MEMS sensors and application-specific integrated circuits (ASIC) in a single package to provide high-fidelity acoustic sensing. They exhibit low power consumption and high sensitivity, offer a high signal-to-noise ratio (SNR), and are available in compact packages that are compatible with surface mount assembly processes. MEMS microphones are widely used in the internet of things (IoT) and virtual reality (VR) devices, hearing aids, smartphones, and other consumer electronics, such as televisions, smart speakers, earbuds, smartwatches, and headsets. As compared to electret condenser microphones (ECM), MEMS microphones are cost-effective, reduce unwanted noise, are less susceptible to electrical interference, and offer low output impedance and temperature stability.

MEMS Microphones Market Trends:

The increasing demand for advanced consumer electronics across the globe is creating a positive outlook for the market. MEMS microphones are extensively used in smart devices and wearables for activating noise cancellation and providing stereo capabilities, voice recognition, and voice recording features. Furthermore, rising product demand in the automotive industry for beamforming, infotainment systems, and engine diagnosis is acting as another growth-inducing factor. Additionally, the introduction of piezoelectric MEMS microphones that are waterproof, dustproof, particle-resistant, shockproof, and can withstand high temperatures is providing an impetus to market

growth. Moreover, widespread product utilization in the healthcare industry in neonatal care, cardiac surgery, emergency alarm, and medical telemetry to remotely monitor patients' pulse and respiration rates is positively influencing the market growth. Other factors, including the rising geriatric population with hearing impairment and increasing product utilization in industrial applications, such as sound power testing, general sound measurement, and noise source testing, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global MEMS microphones market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on signal type, technology and application.

Breakup by Signal Type:

- Analog
- Digital

Breakup by Technology:

- Capacitive
- Piezoelectric

Breakup by Application:

- Mobile Phones
- Hearing Aids
- IoT and VR
- Consumer Electronics
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
- China

Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being AAC Technologies Holdings Inc, Best Sound Electronics (BSE), DB Unlimited, GoerTek Inc., Hosiden Corporation, Infineon Technologies AG, Knowles Electronics LLC, STMicroelectronics, TDK Corporation and Vesper Technologies Inc.

Key Questions Answered in This Report

1. What was the size of the global MEMS microphones market in 2022?
2. What is the expected growth rate of the global MEMS microphones market during 2023-2028?
3. What are the key factors driving the global MEMS microphones market?
4. What has been the impact of COVID-19 on the global MEMS microphones market?
5. What is the breakup of the global MEMS microphones market based on the signal type?
6. What is the breakup of the global MEMS microphones market based on the technology?
7. What is the breakup of the global MEMS microphones market based on application?

8. What are the key regions in the global MEMS microphones market?
9. Who are the key players/companies in the global MEMS microphones market?

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