

# **MEMS Microphones Market Report by Signal Type (Analog, Digital), Technology (Capacitive, Piezoelectric), Application (Mobile Phones, Hearing Aids, IoT and VR, Consumer Electronics, and Others), and Region 2024-2032**

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## **Abstracts**

The global MEMS microphones market size reached US\$ 2.0 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 4.9 Billion by 2032, exhibiting a growth rate (CAGR) of 9.9% during 2024-2032.

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 2024-2032. 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 2023?
2. What is the expected growth rate of the global MEMS microphones market during 2024-2032?
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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