

# Global Omnidirectional Microphone Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Omnidirectional Microphone market size is expected to reach \$ 2121 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

In 2025, global Omni-directional MEMS Microphone Sensor production reached approximately 952.5 k units with an average global market price of around US\$16 per unit. Single-line annual production capacity averages 115 k units with a gross margin of approximately 36-39%. The upstream supply chain for omnidirectional microphones is concentrated in the semiconductor sector, specifically in MEMS transducers, Application-Specific Integrated Circuits (ASICs), and precision packaging. Downstream demand is predominantly led by consumer electronics, which accounts for over 60% of consumption, while other sectors such as automotive electronics (approx. 15%), medical (approx. 10%), and industrial (approx. 8%) collectively share the remainder of the market. The demand and business opportunities for omnidirectional microphones, initially driven by quality enhancements in consumer electronics, are now accelerating penetration into high-value-added fields including intelligent automotive interaction, remote medical monitoring, and industrial IoT monitoring. The core opportunity lies in developing differentiated products capable of deep integration with AI and adaptation to complex acoustic environments.

The core transducer in an omnidirectional microphone typically consists of a semiconductor-based electret condenser capsule, where a thin, permanently polarized dielectric diaphragm vibrates in response to sound waves arriving from any direction, inducing capacitance variations between the diaphragm and a fixed backplate; this setup converts acoustic pressure into electrical signals via an integrated field-effect transistor (FET) preamplifier that amplifies the weak charge fluctuations while minimizing noise through high input impedance. By design, the capsule's symmetrical structure ensures uniform sensitivity across a full 360-degree spherical pickup pattern,

capturing sound with equal fidelity regardless of source orientation, which allows for natural reproduction of ambient acoustics but can introduce challenges like increased susceptibility to background interference in uncontrolled environments, necessitating careful acoustic porting and shielding to balance omnidirectionality with signal clarity. The FET's low-power operation enables compact integration into miniature devices, though it demands precise biasing to avoid distortion from overload, and the electret material's stability over time reduces calibration needs compared to traditional condensers, yet environmental factors such as humidity can degrade performance if not mitigated by hermetic sealing.

In the future, the development of the omnidirectional microphone industry will primarily revolve around deep integration with artificial intelligence, technological upgrades in wireless and miniaturization, sustained market expansion, and diversification of application scenarios. Among these, the integration of artificial intelligence will become the core driving force, enhancing the intelligence level of audio capture through functionalities like beamforming, noise suppression, real-time transcription, and spatial audio rendering. This will enable predictive noise cancellation and seamless multi-device interoperability, catering to the demand for studio-grade call quality in hybrid work environments. Concurrently, advancements in wireless technologies such as RF, Bluetooth, and Wi-Fi, coupled with the widespread adoption of Micro-Electro-Mechanical Systems (MEMS), will make omnidirectional microphones more compact, lightweight, and low-power. They will support dynamic switching of pickup patterns and enable voice-activated control and ambient recording in wearable devices and IoT hubs, although this may also amplify challenges related to battery life and signal stability. The demand for omnidirectional types will rise significantly in broadcasting, virtual meetings, and outdoor interviews, driven by the surge in remote work, live streaming, podcasting, and entertainment events; however, supply chain fluctuations and rising raw material costs could constrain expansion in some regions. Furthermore, application expansion will cover conference rooms (the largest segment), concerts (the fastest-growing segment), classrooms, and telecommunications, driving the proliferation of portable and AI-enhanced models. Yet, compatibility will require further optimization to address diverse interface demands like multi-platform drivers, USB-C, and Bluetooth LE Audio, while environmental factors such as noise interference may necessitate more advanced shielding technologies to maintain uniform pickup.

This report studies the global Omnidirectional Microphone production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Omnidirectional Microphone and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Omnidirectional Microphone

that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Omnidirectional Microphone total production and demand, 2021-2032, (Million Units)

Global Omnidirectional Microphone total production value, 2021-2032, (USD Million)

Global Omnidirectional Microphone production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Omnidirectional Microphone consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Omnidirectional Microphone domestic production, consumption, key domestic manufacturers and share

Global Omnidirectional Microphone production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Omnidirectional Microphone production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Omnidirectional Microphone production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Omnidirectional Microphone market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Analog Devices, Infineon, BSE, STMicroelectronics, TDK Corporation, Hosiden, PUI Audio, Syntiant, DB Unlimited, BeStar Technologies, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Omnidirectional Microphone market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Omnidirectional Microphone Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Omnidirectional Microphone Market, Segmentation by Type:

Ceramic Type

Electret Type

#### Global Omnidirectional Microphone Market, Segmentation by Output Signal Type:

Analog MEMS Microphone

Digital MEMS Microphone

#### Global Omnidirectional Microphone Market, Segmentation by Structure Type:

Bottom-ported

Top-ported

#### Global Omnidirectional Microphone Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

Medical

Industrial

Others

### **Companies Profiled:**

Analog Devices

Infineon

BSE

STMicroelectronics

TDK Corporation

Hosiden

PUI Audio

Syntiant

DB Unlimited

BeStar Technologies

Knowles Syfer

Bosch (Akustica)

Goermicro Microphones

Wuxi Silicon Sources

Shenzhen Hotchip Technology

**Key Questions Answered:**

1. How big is the global Omnidirectional Microphone market?
2. What is the demand of the global Omnidirectional Microphone market?
3. What is the year over year growth of the global Omnidirectional Microphone market?
4. What is the production and production value of the global Omnidirectional Microphone market?
5. Who are the key producers in the global Omnidirectional Microphone market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Omnidirectional Microphone Introduction
- 1.2 World Omnidirectional Microphone Supply & Forecast
  - 1.2.1 World Omnidirectional Microphone Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Omnidirectional Microphone Production (2021-2032)
  - 1.2.3 World Omnidirectional Microphone Pricing Trends (2021-2032)
- 1.3 World Omnidirectional Microphone Production by Region (Based on Production Site)
  - 1.3.1 World Omnidirectional Microphone Production Value by Region (2021-2032)
  - 1.3.2 World Omnidirectional Microphone Production by Region (2021-2032)
  - 1.3.3 World Omnidirectional Microphone Average Price by Region (2021-2032)
  - 1.3.4 North America Omnidirectional Microphone Production (2021-2032)
  - 1.3.5 Europe Omnidirectional Microphone Production (2021-2032)
  - 1.3.6 China Omnidirectional Microphone Production (2021-2032)
  - 1.3.7 Japan Omnidirectional Microphone Production (2021-2032)
  - 1.3.8 South Korea Omnidirectional Microphone Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Omnidirectional Microphone Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Omnidirectional Microphone Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Omnidirectional Microphone Demand (2021-2032)
- 2.2 World Omnidirectional Microphone Consumption by Region
  - 2.2.1 World Omnidirectional Microphone Consumption by Region (2021-2026)
  - 2.2.2 World Omnidirectional Microphone Consumption Forecast by Region (2027-2032)
- 2.3 United States Omnidirectional Microphone Consumption (2021-2032)
- 2.4 China Omnidirectional Microphone Consumption (2021-2032)
- 2.5 Europe Omnidirectional Microphone Consumption (2021-2032)
- 2.6 Japan Omnidirectional Microphone Consumption (2021-2032)
- 2.7 South Korea Omnidirectional Microphone Consumption (2021-2032)
- 2.8 ASEAN Omnidirectional Microphone Consumption (2021-2032)
- 2.9 India Omnidirectional Microphone Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World Omnidirectional Microphone Production Value by Manufacturer (2021-2026)
- 3.2 World Omnidirectional Microphone Production by Manufacturer (2021-2026)
- 3.3 World Omnidirectional Microphone Average Price by Manufacturer (2021-2026)
- 3.4 Omnidirectional Microphone Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Omnidirectional Microphone Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Omnidirectional Microphone in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Omnidirectional Microphone in 2025
- 3.6 Omnidirectional Microphone Market: Overall Company Footprint Analysis
  - 3.6.1 Omnidirectional Microphone Market: Region Footprint
  - 3.6.2 Omnidirectional Microphone Market: Company Product Type Footprint
  - 3.6.3 Omnidirectional Microphone Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Omnidirectional Microphone Production Value Comparison
  - 4.1.1 United States VS China: Omnidirectional Microphone Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Omnidirectional Microphone Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Omnidirectional Microphone Production Comparison
  - 4.2.1 United States VS China: Omnidirectional Microphone Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Omnidirectional Microphone Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Omnidirectional Microphone Consumption Comparison
  - 4.3.1 United States VS China: Omnidirectional Microphone Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Omnidirectional Microphone Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Omnidirectional Microphone Manufacturers and Market Share,

## 2021-2026

4.4.1 United States Based Omnidirectional Microphone Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Omnidirectional Microphone Production Value (2021-2026)

4.4.3 United States Based Manufacturers Omnidirectional Microphone Production (2021-2026)

4.5 China Based Omnidirectional Microphone Manufacturers and Market Share

4.5.1 China Based Omnidirectional Microphone Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Omnidirectional Microphone Production Value (2021-2026)

4.5.3 China Based Manufacturers Omnidirectional Microphone Production (2021-2026)

4.6 Rest of World Based Omnidirectional Microphone Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Omnidirectional Microphone Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Omnidirectional Microphone Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Omnidirectional Microphone Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

5.1 World Omnidirectional Microphone Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Ceramic Type

5.2.2 Electret Type

5.3 Market Segment by Type

5.3.1 World Omnidirectional Microphone Production by Type (2021-2032)

5.3.2 World Omnidirectional Microphone Production Value by Type (2021-2032)

5.3.3 World Omnidirectional Microphone Average Price by Type (2021-2032)

## 6 MARKET ANALYSIS BY OUTPUT SIGNAL TYPE

6.1 World Omnidirectional Microphone Market Size Overview by Output Signal Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Output Signal Type

- 6.2.1 Analog MEMS Microphone
- 6.2.2 Digital MEMS Microphone
- 6.3 Market Segment by Output Signal Type
  - 6.3.1 World Omnidirectional Microphone Production by Output Signal Type (2021-2032)
  - 6.3.2 World Omnidirectional Microphone Production Value by Output Signal Type (2021-2032)
  - 6.3.3 World Omnidirectional Microphone Average Price by Output Signal Type (2021-2032)

## **7 MARKET ANALYSIS BY STRUCTURE TYPE**

- 7.1 World Omnidirectional Microphone Market Size Overview by Structure Type: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Structure Type
  - 7.2.1 Bottom-porting
  - 7.2.2 Top-porting
- 7.3 Market Segment by Structure Type
  - 7.3.1 World Omnidirectional Microphone Production by Structure Type (2021-2032)
  - 7.3.2 World Omnidirectional Microphone Production Value by Structure Type (2021-2032)
  - 7.3.3 World Omnidirectional Microphone Average Price by Structure Type (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

- 8.1 World Omnidirectional Microphone Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
  - 8.2.1 Consumer Electronics
  - 8.2.2 Automotive Electronics
  - 8.2.3 Medical
  - 8.2.4 Industrial
  - 8.2.5 Others
- 8.3 Market Segment by Application
  - 8.3.1 World Omnidirectional Microphone Production by Application (2021-2032)
  - 8.3.2 World Omnidirectional Microphone Production Value by Application (2021-2032)
  - 8.3.3 World Omnidirectional Microphone Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

## 9.1 Analog Devices

9.1.1 Analog Devices Details

9.1.2 Analog Devices Major Business

9.1.3 Analog Devices Omnidirectional Microphone Product and Services

9.1.4 Analog Devices Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Analog Devices Recent Developments/Updates

9.1.6 Analog Devices Competitive Strengths & Weaknesses

## 9.2 Infineon

9.2.1 Infineon Details

9.2.2 Infineon Major Business

9.2.3 Infineon Omnidirectional Microphone Product and Services

9.2.4 Infineon Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Infineon Recent Developments/Updates

9.2.6 Infineon Competitive Strengths & Weaknesses

## 9.3 BSE

9.3.1 BSE Details

9.3.2 BSE Major Business

9.3.3 BSE Omnidirectional Microphone Product and Services

9.3.4 BSE Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 BSE Recent Developments/Updates

9.3.6 BSE Competitive Strengths & Weaknesses

## 9.4 STMicroelectronics

9.4.1 STMicroelectronics Details

9.4.2 STMicroelectronics Major Business

9.4.3 STMicroelectronics Omnidirectional Microphone Product and Services

9.4.4 STMicroelectronics Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 STMicroelectronics Recent Developments/Updates

9.4.6 STMicroelectronics Competitive Strengths & Weaknesses

## 9.5 TDK Corporation

9.5.1 TDK Corporation Details

9.5.2 TDK Corporation Major Business

9.5.3 TDK Corporation Omnidirectional Microphone Product and Services

9.5.4 TDK Corporation Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.5.5 TDK Corporation Recent Developments/Updates
- 9.5.6 TDK Corporation Competitive Strengths & Weaknesses
- 9.6 Hosiden
  - 9.6.1 Hosiden Details
  - 9.6.2 Hosiden Major Business
  - 9.6.3 Hosiden Omnidirectional Microphone Product and Services
  - 9.6.4 Hosiden Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Hosiden Recent Developments/Updates
  - 9.6.6 Hosiden Competitive Strengths & Weaknesses
- 9.7 PUI Audio
  - 9.7.1 PUI Audio Details
  - 9.7.2 PUI Audio Major Business
  - 9.7.3 PUI Audio Omnidirectional Microphone Product and Services
  - 9.7.4 PUI Audio Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 PUI Audio Recent Developments/Updates
  - 9.7.6 PUI Audio Competitive Strengths & Weaknesses
- 9.8 Syntiant
  - 9.8.1 Syntiant Details
  - 9.8.2 Syntiant Major Business
  - 9.8.3 Syntiant Omnidirectional Microphone Product and Services
  - 9.8.4 Syntiant Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Syntiant Recent Developments/Updates
  - 9.8.6 Syntiant Competitive Strengths & Weaknesses
- 9.9 DB Unlimited
  - 9.9.1 DB Unlimited Details
  - 9.9.2 DB Unlimited Major Business
  - 9.9.3 DB Unlimited Omnidirectional Microphone Product and Services
  - 9.9.4 DB Unlimited Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 DB Unlimited Recent Developments/Updates
  - 9.9.6 DB Unlimited Competitive Strengths & Weaknesses
- 9.10 BeStar Technologies
  - 9.10.1 BeStar Technologies Details
  - 9.10.2 BeStar Technologies Major Business
  - 9.10.3 BeStar Technologies Omnidirectional Microphone Product and Services
  - 9.10.4 BeStar Technologies Omnidirectional Microphone Production, Price, Value,

## Gross Margin and Market Share (2021-2026)

9.10.5 BeStar Technologies Recent Developments/Updates

9.10.6 BeStar Technologies Competitive Strengths & Weaknesses

## 9.11 Knowles Syfer

9.11.1 Knowles Syfer Details

9.11.2 Knowles Syfer Major Business

9.11.3 Knowles Syfer Omnidirectional Microphone Product and Services

9.11.4 Knowles Syfer Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Knowles Syfer Recent Developments/Updates

9.11.6 Knowles Syfer Competitive Strengths & Weaknesses

## 9.12 Bosch (Akustica)

9.12.1 Bosch (Akustica) Details

9.12.2 Bosch (Akustica) Major Business

9.12.3 Bosch (Akustica) Omnidirectional Microphone Product and Services

9.12.4 Bosch (Akustica) Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Bosch (Akustica) Recent Developments/Updates

9.12.6 Bosch (Akustica) Competitive Strengths & Weaknesses

## 9.13 Goermicro Microphones

9.13.1 Goermicro Microphones Details

9.13.2 Goermicro Microphones Major Business

9.13.3 Goermicro Microphones Omnidirectional Microphone Product and Services

9.13.4 Goermicro Microphones Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Goermicro Microphones Recent Developments/Updates

9.13.6 Goermicro Microphones Competitive Strengths & Weaknesses

## 9.14 Wuxi Silicon Sources

9.14.1 Wuxi Silicon Sources Details

9.14.2 Wuxi Silicon Sources Major Business

9.14.3 Wuxi Silicon Sources Omnidirectional Microphone Product and Services

9.14.4 Wuxi Silicon Sources Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Wuxi Silicon Sources Recent Developments/Updates

9.14.6 Wuxi Silicon Sources Competitive Strengths & Weaknesses

## 9.15 Shenzhen Hotchip Technology

9.15.1 Shenzhen Hotchip Technology Details

9.15.2 Shenzhen Hotchip Technology Major Business

9.15.3 Shenzhen Hotchip Technology Omnidirectional Microphone Product and

## Services

9.15.4 Shenzhen Hotchip Technology Omnidirectional Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Shenzhen Hotchip Technology Recent Developments/Updates

9.15.6 Shenzhen Hotchip Technology Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 Omnidirectional Microphone Industry Chain

10.2 Omnidirectional Microphone Upstream Analysis

10.2.1 Omnidirectional Microphone Core Raw Materials

10.2.2 Main Manufacturers of Omnidirectional Microphone Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Omnidirectional Microphone Production Mode

10.6 Omnidirectional Microphone Procurement Model

10.7 Omnidirectional Microphone Industry Sales Model and Sales Channels

10.7.1 Omnidirectional Microphone Sales Model

10.7.2 Omnidirectional Microphone Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Omnidirectional Microphone Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Omnidirectional Microphone Production Value by Region (2021-2026) & (USD Million)

Table 3. World Omnidirectional Microphone Production Value by Region (2027-2032) & (USD Million)

Table 4. World Omnidirectional Microphone Production Value Market Share by Region (2021-2026)

Table 5. World Omnidirectional Microphone Production Value Market Share by Region (2027-2032)

Table 6. World Omnidirectional Microphone Production by Region (2021-2026) & (Million Units)

Table 7. World Omnidirectional Microphone Production by Region (2027-2032) & (Million Units)

Table 8. World Omnidirectional Microphone Production Market Share by Region (2021-2026)

Table 9. World Omnidirectional Microphone Production Market Share by Region (2027-2032)

Table 10. World Omnidirectional Microphone Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Omnidirectional Microphone Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Omnidirectional Microphone Major Market Trends

Table 13. World Omnidirectional Microphone Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Omnidirectional Microphone Consumption by Region (2021-2026) & (Million Units)

Table 15. World Omnidirectional Microphone Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Omnidirectional Microphone Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Omnidirectional Microphone Producers in 2025

Table 18. World Omnidirectional Microphone Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Omnidirectional Microphone Producers in 2025

Table 20. World Omnidirectional Microphone Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Omnidirectional Microphone Company Evaluation Quadrant

Table 22. World Omnidirectional Microphone Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Omnidirectional Microphone Production Site of Key Manufacturer

Table 24. Omnidirectional Microphone Market: Company Product Type Footprint

Table 25. Omnidirectional Microphone Market: Company Product Application Footprint

Table 26. Omnidirectional Microphone Competitive Factors

Table 27. Omnidirectional Microphone New Entrant and Capacity Expansion Plans

Table 28. Omnidirectional Microphone Mergers & Acquisitions Activity

Table 29. United States VS China Omnidirectional Microphone Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Omnidirectional Microphone Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China Omnidirectional Microphone Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based Omnidirectional Microphone Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Omnidirectional Microphone Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Omnidirectional Microphone Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Omnidirectional Microphone Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers Omnidirectional Microphone Production Market Share (2021-2026)

Table 37. China Based Omnidirectional Microphone Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Omnidirectional Microphone Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Omnidirectional Microphone Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Omnidirectional Microphone Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers Omnidirectional Microphone Production Market

Share (2021-2026)

Table 42. Rest of World Based Omnidirectional Microphone Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Omnidirectional Microphone Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Omnidirectional Microphone Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Omnidirectional Microphone Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers Omnidirectional Microphone Production Market Share (2021-2026)

Table 47. World Omnidirectional Microphone Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Omnidirectional Microphone Production by Type (2021-2026) & (Million Units)

Table 49. World Omnidirectional Microphone Production by Type (2027-2032) & (Million Units)

Table 50. World Omnidirectional Microphone Production Value by Type (2021-2026) & (USD Million)

Table 51. World Omnidirectional Microphone Production Value by Type (2027-2032) & (USD Million)

Table 52. World Omnidirectional Microphone Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Omnidirectional Microphone Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Omnidirectional Microphone Production Value by Output Signal Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Omnidirectional Microphone Production by Output Signal Type (2021-2026) & (Million Units)

Table 56. World Omnidirectional Microphone Production by Output Signal Type (2027-2032) & (Million Units)

Table 57. World Omnidirectional Microphone Production Value by Output Signal Type (2021-2026) & (USD Million)

Table 58. World Omnidirectional Microphone Production Value by Output Signal Type (2027-2032) & (USD Million)

Table 59. World Omnidirectional Microphone Average Price by Output Signal Type (2021-2026) & (US\$/Unit)

Table 60. World Omnidirectional Microphone Average Price by Output Signal Type (2027-2032) & (US\$/Unit)

Table 61. World Omnidirectional Microphone Production Value by Structure Type, (USD Million), 2021 & 2025 & 2032

Table 62. World Omnidirectional Microphone Production by Structure Type (2021-2026) & (Million Units)

Table 63. World Omnidirectional Microphone Production by Structure Type (2027-2032) & (Million Units)

Table 64. World Omnidirectional Microphone Production Value by Structure Type (2021-2026) & (USD Million)

Table 65. World Omnidirectional Microphone Production Value by Structure Type (2027-2032) & (USD Million)

Table 66. World Omnidirectional Microphone Average Price by Structure Type (2021-2026) & (US\$/Unit)

Table 67. World Omnidirectional Microphone Average Price by Structure Type (2027-2032) & (US\$/Unit)

Table 68. World Omnidirectional Microphone Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Omnidirectional Microphone Production by Application (2021-2026) & (Million Units)

Table 70. World Omnidirectional Microphone Production by Application (2027-2032) & (Million Units)

Table 71. World Omnidirectional Microphone Production Value by Application (2021-2026) & (USD Million)

Table 72. World Omnidirectional Microphone Production Value by Application (2027-2032) & (USD Million)

Table 73. World Omnidirectional Microphone Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Omnidirectional Microphone Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 76. Analog Devices Major Business

Table 77. Analog Devices Omnidirectional Microphone Product and Services

Table 78. Analog Devices Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Analog Devices Recent Developments/Updates

Table 80. Analog Devices Competitive Strengths & Weaknesses

Table 81. Infineon Basic Information, Manufacturing Base and Competitors

Table 82. Infineon Major Business

Table 83. Infineon Omnidirectional Microphone Product and Services

Table 84. Infineon Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Infineon Recent Developments/Updates

Table 86. Infineon Competitive Strengths & Weaknesses

Table 87. BSE Basic Information, Manufacturing Base and Competitors

Table 88. BSE Major Business

Table 89. BSE Omnidirectional Microphone Product and Services

Table 90. BSE Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. BSE Recent Developments/Updates

Table 92. BSE Competitive Strengths & Weaknesses

Table 93. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 94. STMicroelectronics Major Business

Table 95. STMicroelectronics Omnidirectional Microphone Product and Services

Table 96. STMicroelectronics Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. STMicroelectronics Recent Developments/Updates

Table 98. STMicroelectronics Competitive Strengths & Weaknesses

Table 99. TDK Corporation Basic Information, Manufacturing Base and Competitors

Table 100. TDK Corporation Major Business

Table 101. TDK Corporation Omnidirectional Microphone Product and Services

Table 102. TDK Corporation Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. TDK Corporation Recent Developments/Updates

Table 104. TDK Corporation Competitive Strengths & Weaknesses

Table 105. Hosiden Basic Information, Manufacturing Base and Competitors

Table 106. Hosiden Major Business

Table 107. Hosiden Omnidirectional Microphone Product and Services

Table 108. Hosiden Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Hosiden Recent Developments/Updates

Table 110. Hosiden Competitive Strengths & Weaknesses

Table 111. PUI Audio Basic Information, Manufacturing Base and Competitors

Table 112. PUI Audio Major Business

Table 113. PUI Audio Omnidirectional Microphone Product and Services

Table 114. PUI Audio Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. PUI Audio Recent Developments/Updates

Table 116. PUI Audio Competitive Strengths & Weaknesses

Table 117. Syntiant Basic Information, Manufacturing Base and Competitors

Table 118. Syntiant Major Business

Table 119. Syntiant Omnidirectional Microphone Product and Services

Table 120. Syntiant Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Syntiant Recent Developments/Updates

Table 122. Syntiant Competitive Strengths & Weaknesses

Table 123. DB Unlimited Basic Information, Manufacturing Base and Competitors

Table 124. DB Unlimited Major Business

Table 125. DB Unlimited Omnidirectional Microphone Product and Services

Table 126. DB Unlimited Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. DB Unlimited Recent Developments/Updates

Table 128. DB Unlimited Competitive Strengths & Weaknesses

Table 129. BeStar Technologies Basic Information, Manufacturing Base and Competitors

Table 130. BeStar Technologies Major Business

Table 131. BeStar Technologies Omnidirectional Microphone Product and Services

Table 132. BeStar Technologies Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. BeStar Technologies Recent Developments/Updates

Table 134. BeStar Technologies Competitive Strengths & Weaknesses

Table 135. Knowles Syfer Basic Information, Manufacturing Base and Competitors

Table 136. Knowles Syfer Major Business

Table 137. Knowles Syfer Omnidirectional Microphone Product and Services

Table 138. Knowles Syfer Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Knowles Syfer Recent Developments/Updates

Table 140. Knowles Syfer Competitive Strengths & Weaknesses

Table 141. Bosch (Akustica) Basic Information, Manufacturing Base and Competitors

Table 142. Bosch (Akustica) Major Business

Table 143. Bosch (Akustica) Omnidirectional Microphone Product and Services

Table 144. Bosch (Akustica) Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Bosch (Akustica) Recent Developments/Updates

Table 146. Bosch (Akustica) Competitive Strengths & Weaknesses

Table 147. Goermicro Microphones Basic Information, Manufacturing Base and Competitors

Table 148. Goermicro Microphones Major Business

Table 149. Goermicro Microphones Omnidirectional Microphone Product and Services

Table 150. Goermicro Microphones Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Goermicro Microphones Recent Developments/Updates

Table 152. Goermicro Microphones Competitive Strengths & Weaknesses

Table 153. Wuxi Silicon Sources Basic Information, Manufacturing Base and Competitors

Table 154. Wuxi Silicon Sources Major Business

Table 155. Wuxi Silicon Sources Omnidirectional Microphone Product and Services

Table 156. Wuxi Silicon Sources Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Wuxi Silicon Sources Recent Developments/Updates

Table 158. Wuxi Silicon Sources Competitive Strengths & Weaknesses

Table 159. Shenzhen Hotchip Technology Basic Information, Manufacturing Base and Competitors

Table 160. Shenzhen Hotchip Technology Major Business

Table 161. Shenzhen Hotchip Technology Omnidirectional Microphone Product and Services

Table 162. Shenzhen Hotchip Technology Omnidirectional Microphone Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Shenzhen Hotchip Technology Recent Developments/Updates

Table 164. Shenzhen Hotchip Technology Competitive Strengths & Weaknesses

Table 165. Global Key Players of Omnidirectional Microphone Upstream (Raw Materials)

Table 166. Global Omnidirectional Microphone Typical Customers

Table 167. Omnidirectional Microphone Typical Distributors



## List Of Figures

### LIST OF FIGURES

Figure 1. Omnidirectional Microphone Picture

Figure 2. World Omnidirectional Microphone Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Omnidirectional Microphone Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Omnidirectional Microphone Production (2021-2032) & (Million Units)

Figure 5. World Omnidirectional Microphone Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Omnidirectional Microphone Production Value Market Share by Region (2021-2032)

Figure 7. World Omnidirectional Microphone Production Market Share by Region (2021-2032)

Figure 8. North America Omnidirectional Microphone Production (2021-2032) & (Million Units)

Figure 9. Europe Omnidirectional Microphone Production (2021-2032) & (Million Units)

Figure 10. China Omnidirectional Microphone Production (2021-2032) & (Million Units)

Figure 11. Japan Omnidirectional Microphone Production (2021-2032) & (Million Units)

Figure 12. South Korea Omnidirectional Microphone Production (2021-2032) & (Million Units)

Figure 13. Omnidirectional Microphone Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Omnidirectional Microphone Consumption (2021-2032) & (Million Units)

Figure 16. World Omnidirectional Microphone Consumption Market Share by Region (2021-2032)

Figure 17. United States Omnidirectional Microphone Consumption (2021-2032) & (Million Units)

Figure 18. China Omnidirectional Microphone Consumption (2021-2032) & (Million Units)

Figure 19. Europe Omnidirectional Microphone Consumption (2021-2032) & (Million Units)

Figure 20. Japan Omnidirectional Microphone Consumption (2021-2032) & (Million Units)

Figure 21. South Korea Omnidirectional Microphone Consumption (2021-2032) & (Million Units)

Figure 22. ASEAN Omnidirectional Microphone Consumption (2021-2032) & (Million

Units)

Figure 23. India Omnidirectional Microphone Consumption (2021-2032) & (Million Units)

Figure 24. Producer Shipments of Omnidirectional Microphone by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Omnidirectional Microphone Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Omnidirectional Microphone Markets in 2025

Figure 27. United States VS China: Omnidirectional Microphone Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Omnidirectional Microphone Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Omnidirectional Microphone Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Omnidirectional Microphone Production Market Share 2025

Figure 31. China Based Manufacturers Omnidirectional Microphone Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Omnidirectional Microphone Production Market Share 2025

Figure 33. World Omnidirectional Microphone Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Omnidirectional Microphone Production Value Market Share by Type in 2025

Figure 35. Ceramic Type

Figure 36. Electret Type

Figure 37. World Omnidirectional Microphone Production Market Share by Type (2021-2032)

Figure 38. World Omnidirectional Microphone Production Value Market Share by Type (2021-2032)

Figure 39. World Omnidirectional Microphone Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Omnidirectional Microphone Production Value by Output Signal Type, (USD Million), 2021 & 2025 & 2032

Figure 41. World Omnidirectional Microphone Production Value Market Share by Output Signal Type in 2025

Figure 42. Analog MEMS Microphone

Figure 43. Digital MEMS Microphone

Figure 44. World Omnidirectional Microphone Production Market Share by Output

Signal Type (2021-2032)

Figure 45. World Omnidirectional Microphone Production Value Market Share by Output Signal Type (2021-2032)

Figure 46. World Omnidirectional Microphone Average Price by Output Signal Type (2021-2032) & (US\$/Unit)

Figure 47. World Omnidirectional Microphone Production Value by Structure Type, (USD Million), 2021 & 2025 & 2032

Figure 48. World Omnidirectional Microphone Production Value Market Share by Structure Type in 2025

Figure 49. Bottom-ported

Figure 50. Top-ported

Figure 51. World Omnidirectional Microphone Production Market Share by Structure Type (2021-2032)

Figure 52. World Omnidirectional Microphone Production Value Market Share by Structure Type (2021-2032)

Figure 53. World Omnidirectional Microphone Average Price by Structure Type (2021-2032) & (US\$/Unit)

Figure 54. World Omnidirectional Microphone Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Omnidirectional Microphone Production Value Market Share by Application in 2025

Figure 56. Consumer Electronics

Figure 57. Automotive Electronics

Figure 58. Medical

Figure 59. Industrial

Figure 60. Others

Figure 61. World Omnidirectional Microphone Production Market Share by Application (2021-2032)

Figure 62. World Omnidirectional Microphone Production Value Market Share by Application (2021-2032)

Figure 63. World Omnidirectional Microphone Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Omnidirectional Microphone Industry Chain

Figure 65. Omnidirectional Microphone Procurement Model

Figure 66. Omnidirectional Microphone Sales Model

Figure 67. Omnidirectional Microphone Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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