

Global Binaural Recording Microphone Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Binaural Recording Microphone market size is expected to reach \$ 48.30 million by 2032, rising at a market growth of 1.6% CAGR during the forecast period (2026-2032).

Binaural recording microphones are professional pickup devices designed for immersive sound capture and human auditory reproduction. Their core function is not simply to obtain left and right audio channels, but to allow sound to pass through a spatial filtering process similar to that of the human ear before reaching the left and right pickup units, using structures such as in-ear wearing, artificial pinnae, simulated human heads, or head-and-torso simulators. This enables the recording of sound source direction, distance, room reflections, and a sense of on-site immersion. These products are typically composed of paired omnidirectional condenser or electret microphone capsules, silicone pinnae, head or ear-worn structures, preamplifier circuits, power supply modules, and interfaces such as XLR, 3.5 mm, USB, ICP, or LEMO. Some high-end systems also integrate calibration, equalization, data acquisition front ends, and analysis software. Typical applications include ASMR content production, outdoor field recording, live music recording, film sound effects recording, VR and spatial audio content production, in-vehicle sound quality testing, consumer electronics acoustic evaluation, and audiology research. Customers include not only creators and recording engineers, but also automotive companies, home appliance manufacturers, communication terminal manufacturers, acoustic laboratories, and research institutions.

Binaural recording microphones sit at the intersection of professional audio equipment, content creation tools, and acoustic testing instruments. Their industrial value does not depend solely on pickup sensitivity, but on whether they can preserve the direction, distance, occlusion, reflections, and spatial envelopment of real human hearing. As

ASMR, podcasts, immersive video, VR content, and spatial audio increasingly become important formats on content platforms, creators' demand for audio that 'sounds as if the listener is actually there' has grown significantly. Traditional single-point microphones and ordinary stereo microphones are unable to fully deliver this experience. Through structures such as in-ear wearing, ear hooks, artificial ears, dummy heads, or head-and-torso simulators, binaural recording microphones directly encode the influence of the pinnae and head on sound waves into the recording, reducing post-production workload and making spatial immersion during headphone playback more natural. As a result, these products have a typical niche, high-value profile. They can serve both as content production tools for creators and as key capture devices in professional recording and immersive media production workflows.

From the perspective of the competitive landscape, binaural recording microphones are not a highly standardized mass-market electronic product, but rather a professional niche market composed of multiple price tiers and application segments. Low-cost in-ear and ear-hook products mainly target individual creators, outdoor field recordists, and lightweight content teams, with key competitive factors including portability, compatibility with smartphones or portable recorders, low noise, and a low barrier to use. Mid- to high-end artificial-ear and desktop products mainly target ASMR live streaming, video production, game audio, foley recording, and professional recording, with competition focused on pinna structure, capsule quality, signal-to-noise ratio, dynamic range, and interface flexibility. Dummy-head and head-and-torso simulator systems mainly serve acoustic measurement, automotive NVH, consumer electronics acoustic validation, audiology, and communication terminal testing, where key competitive factors shift toward calibration capability, standards compliance, repeatability, and supporting system software.

In the next few years, demand growth for binaural recording microphones will mainly be driven by two forces. The first is growth on the content side. Short video, live streaming, ASMR, immersive music, VR video, and spatial audio platforms will continue to expand demand for realistic spatial audio materials, while lightweight design, USB connectivity, mobile device compatibility, and affordable professionalization will become important directions for creator-grade products. The second is growth on the engineering side. Products such as new energy vehicle cabins, smart speakers, conferencing devices, headphones, hearing aids, home appliances, and robots are placing increasing emphasis on human-perceived sound quality. Sound quality evaluation needs to shift from traditional sound pressure metrics toward binaural capture and playback that are closer to real auditory experience. Because these products involve acoustic structures, microphone capsules, electronic interfaces, calibration, and software analysis, they are

unlikely to be fully replaced by pure software algorithms in the short term, and hardware form factors will continue to retain value. The market is expected to maintain a small-scale, highly specialized, and steadily growing pattern, with a growth rate higher than that of the general professional microphone market, although its total size will remain significantly smaller than the general recording microphone market.

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

This report is a detailed and comprehensive analysis of the world market for Binaural Recording 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 Binaural Recording Microphone that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Binaural Recording Microphone total production and demand, 2021-2032, (Units)

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

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

Global Binaural Recording Microphone consumption by region & country, CAGR, 2021-2032 & (Units)

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

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

Global Binaural Recording Microphone production by Mounting Form, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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

This report profiles key players in the global Binaural Recording 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 3Dio, Roland, DPA Microphones, Neumann, HEAD acoustics, GRAS Sound & Vibration, radius, Bit Trade One, HEADREC, SR3D Binaural Microphones, 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 Binaural Recording Microphone market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Mounting Form, 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 Binaural Recording Microphone Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Binaural Recording Microphone Market, Segmentation by Mounting Form:

In-Ear Wearing Binaural Recording Microphone

Ear-Hook Wearing Binaural Recording Microphone

Head-Mounted Wearing Binaural Recording Microphone

Desktop Stand Binaural Recording Microphone

Other

Global Binaural Recording Microphone Market, Segmentation by Main Interface:

3.5 mm Main Interface Binaural Recording Microphone

USB Main Interface Binaural Recording Microphone

XLR Main Interface Binaural Recording Microphone

ICP Main Interface Binaural Recording Microphone

LEMO Main Interface Binaural Recording Microphone

Dedicated Data Acquisition Interface Binaural Recording Microphone

Global Binaural Recording Microphone Market, Segmentation by Acoustic Simulation Structure:

Real Human Capture Binaural Recording Microphone

Outer Pinna Simulation Binaural Recording Microphone

Full Head Simulation Binaural Recording Microphone

Head and Torso Simulation Binaural Recording Microphone

Other

Global Binaural Recording Microphone Market, Segmentation by Application:

ASMR Content Recording

Natural Environment Sound Recording

Live Music Recording

VR Spatial Audio Production

Film Foley Recording

Product Sound Quality Testing

Companies Profiled:

3Dio

Roland

DPA Microphones

Neumann

HEAD acoustics

GRAS Sound & Vibration

radius

Bit Trade One

HEADREC

SR3D Binaural Microphones

SonicPresence

Core Sound

Sound Professionals

Immersive Soundscapes

Soundman

BSWA Technology

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

2.9 India Binaural Recording Microphone Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Binaural Recording Microphone Production Value by Manufacturer (2021-2026)

3.2 World Binaural Recording Microphone Production by Manufacturer (2021-2026)

3.3 World Binaural Recording Microphone Average Price by Manufacturer (2021-2026)

3.4 Binaural Recording Microphone Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Binaural Recording Microphone Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Binaural Recording Microphone in 2025

3.5.3 Global Concentration Ratios (CR8) for Binaural Recording Microphone in 2025

3.6 Binaural Recording Microphone Market: Overall Company Footprint Analysis

3.6.1 Binaural Recording Microphone Market: Region Footprint

3.6.2 Binaural Recording Microphone Market: Company Product Type Footprint

3.6.3 Binaural Recording 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: Binaural Recording Microphone Production Value Comparison

4.1.1 United States VS China: Binaural Recording Microphone Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Binaural Recording Microphone Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Binaural Recording Microphone Production Comparison

4.2.1 United States VS China: Binaural Recording Microphone Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Binaural Recording Microphone Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Binaural Recording Microphone Consumption Comparison

4.3.1 United States VS China: Binaural Recording Microphone Consumption

Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Binaural Recording Microphone Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Binaural Recording Microphone Manufacturers and Market Share, 2021-2026

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

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

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

4.5 China Based Binaural Recording Microphone Manufacturers and Market Share

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

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

4.5.3 China Based Manufacturers Binaural Recording Microphone Production (2021-2026)

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

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

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

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

5 MARKET ANALYSIS BY MOUNTING FORM

5.1 World Binaural Recording Microphone Market Size Overview by Mounting Form: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Mounting Form

5.2.1 In-Ear Wearing Binaural Recording Microphone

5.2.2 Ear-Hook Wearing Binaural Recording Microphone

5.2.3 Head-Mounted Wearing Binaural Recording Microphone

5.2.4 Desktop Stand Binaural Recording Microphone

5.2.5 Other

5.3 Market Segment by Mounting Form

5.3.1 World Binaural Recording Microphone Production by Mounting Form (2021-2032)

5.3.2 World Binaural Recording Microphone Production Value by Mounting Form (2021-2032)

5.3.3 World Binaural Recording Microphone Average Price by Mounting Form (2021-2032)

6 MARKET ANALYSIS BY MAIN INTERFACE

6.1 World Binaural Recording Microphone Market Size Overview by Main Interface: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Main Interface

6.2.1 3.5 mm Main Interface Binaural Recording Microphone

6.2.2 USB Main Interface Binaural Recording Microphone

6.2.3 XLR Main Interface Binaural Recording Microphone

6.2.4 ICP Main Interface Binaural Recording Microphone

6.2.5 LEMO Main Interface Binaural Recording Microphone

6.2.6 Dedicated Data Acquisition Interface Binaural Recording Microphone

6.3 Market Segment by Main Interface

6.3.1 World Binaural Recording Microphone Production by Main Interface (2021-2032)

6.3.2 World Binaural Recording Microphone Production Value by Main Interface (2021-2032)

6.3.3 World Binaural Recording Microphone Average Price by Main Interface (2021-2032)

7 MARKET ANALYSIS BY ACOUSTIC SIMULATION STRUCTURE

7.1 World Binaural Recording Microphone Market Size Overview by Acoustic Simulation Structure: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Acoustic Simulation Structure

7.2.1 Real Human Capture Binaural Recording Microphone

7.2.2 Outer Pinna Simulation Binaural Recording Microphone

7.2.3 Full Head Simulation Binaural Recording Microphone

7.2.4 Head and Torso Simulation Binaural Recording Microphone

7.2.5 Other

7.3 Market Segment by Acoustic Simulation Structure

7.3.1 World Binaural Recording Microphone Production by Acoustic Simulation Structure (2021-2032)

7.3.2 World Binaural Recording Microphone Production Value by Acoustic Simulation Structure (2021-2032)

7.3.3 World Binaural Recording Microphone Average Price by Acoustic Simulation

Structure (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Binaural Recording Microphone Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 ASMR Content Recording

8.2.2 Natural Environment Sound Recording

8.2.3 Live Music Recording

8.2.4 VR Spatial Audio Production

8.2.5 Film Foley Recording

8.2.6 Product Sound Quality Testing

8.3 Market Segment by Application

8.3.1 World Binaural Recording Microphone Production by Application (2021-2032)

8.3.2 World Binaural Recording Microphone Production Value by Application (2021-2032)

8.3.3 World Binaural Recording Microphone Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 3Dio

9.1.1 3Dio Details

9.1.2 3Dio Major Business

9.1.3 3Dio Binaural Recording Microphone Product and Services

9.1.4 3Dio Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 3Dio Recent Developments/Updates

9.1.6 3Dio Competitive Strengths & Weaknesses

9.2 Roland

9.2.1 Roland Details

9.2.2 Roland Major Business

9.2.3 Roland Binaural Recording Microphone Product and Services

9.2.4 Roland Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Roland Recent Developments/Updates

9.2.6 Roland Competitive Strengths & Weaknesses

9.3 DPA Microphones

9.3.1 DPA Microphones Details

- 9.3.2 DPA Microphones Major Business
- 9.3.3 DPA Microphones Binaural Recording Microphone Product and Services
- 9.3.4 DPA Microphones Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 DPA Microphones Recent Developments/Updates
- 9.3.6 DPA Microphones Competitive Strengths & Weaknesses
- 9.4 Neumann
 - 9.4.1 Neumann Details
 - 9.4.2 Neumann Major Business
 - 9.4.3 Neumann Binaural Recording Microphone Product and Services
 - 9.4.4 Neumann Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Neumann Recent Developments/Updates
 - 9.4.6 Neumann Competitive Strengths & Weaknesses
- 9.5 HEAD acoustics
 - 9.5.1 HEAD acoustics Details
 - 9.5.2 HEAD acoustics Major Business
 - 9.5.3 HEAD acoustics Binaural Recording Microphone Product and Services
 - 9.5.4 HEAD acoustics Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 HEAD acoustics Recent Developments/Updates
 - 9.5.6 HEAD acoustics Competitive Strengths & Weaknesses
- 9.6 GRAS Sound & Vibration
 - 9.6.1 GRAS Sound & Vibration Details
 - 9.6.2 GRAS Sound & Vibration Major Business
 - 9.6.3 GRAS Sound & Vibration Binaural Recording Microphone Product and Services
 - 9.6.4 GRAS Sound & Vibration Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 GRAS Sound & Vibration Recent Developments/Updates
 - 9.6.6 GRAS Sound & Vibration Competitive Strengths & Weaknesses
- 9.7 radius
 - 9.7.1 radius Details
 - 9.7.2 radius Major Business
 - 9.7.3 radius Binaural Recording Microphone Product and Services
 - 9.7.4 radius Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 radius Recent Developments/Updates
 - 9.7.6 radius Competitive Strengths & Weaknesses
- 9.8 Bit Trade One

- 9.8.1 Bit Trade One Details
- 9.8.2 Bit Trade One Major Business
- 9.8.3 Bit Trade One Binaural Recording Microphone Product and Services
- 9.8.4 Bit Trade One Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.8.5 Bit Trade One Recent Developments/Updates
- 9.8.6 Bit Trade One Competitive Strengths & Weaknesses
- 9.9 HEADREC
 - 9.9.1 HEADREC Details
 - 9.9.2 HEADREC Major Business
 - 9.9.3 HEADREC Binaural Recording Microphone Product and Services
 - 9.9.4 HEADREC Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 HEADREC Recent Developments/Updates
 - 9.9.6 HEADREC Competitive Strengths & Weaknesses
- 9.10 SR3D Binaural Microphones
 - 9.10.1 SR3D Binaural Microphones Details
 - 9.10.2 SR3D Binaural Microphones Major Business
 - 9.10.3 SR3D Binaural Microphones Binaural Recording Microphone Product and Services
 - 9.10.4 SR3D Binaural Microphones Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 SR3D Binaural Microphones Recent Developments/Updates
 - 9.10.6 SR3D Binaural Microphones Competitive Strengths & Weaknesses
- 9.11 SonicPresence
 - 9.11.1 SonicPresence Details
 - 9.11.2 SonicPresence Major Business
 - 9.11.3 SonicPresence Binaural Recording Microphone Product and Services
 - 9.11.4 SonicPresence Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 SonicPresence Recent Developments/Updates
 - 9.11.6 SonicPresence Competitive Strengths & Weaknesses
- 9.12 Core Sound
 - 9.12.1 Core Sound Details
 - 9.12.2 Core Sound Major Business
 - 9.12.3 Core Sound Binaural Recording Microphone Product and Services
 - 9.12.4 Core Sound Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Core Sound Recent Developments/Updates

9.12.6 Core Sound Competitive Strengths & Weaknesses

9.13 Sound Professionals

9.13.1 Sound Professionals Details

9.13.2 Sound Professionals Major Business

9.13.3 Sound Professionals Binaural Recording Microphone Product and Services

9.13.4 Sound Professionals Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Sound Professionals Recent Developments/Updates

9.13.6 Sound Professionals Competitive Strengths & Weaknesses

9.14 Immersive Soundscapes

9.14.1 Immersive Soundscapes Details

9.14.2 Immersive Soundscapes Major Business

9.14.3 Immersive Soundscapes Binaural Recording Microphone Product and Services

9.14.4 Immersive Soundscapes Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Immersive Soundscapes Recent Developments/Updates

9.14.6 Immersive Soundscapes Competitive Strengths & Weaknesses

9.15 Soundman

9.15.1 Soundman Details

9.15.2 Soundman Major Business

9.15.3 Soundman Binaural Recording Microphone Product and Services

9.15.4 Soundman Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Soundman Recent Developments/Updates

9.15.6 Soundman Competitive Strengths & Weaknesses

9.16 BSWA Technology

9.16.1 BSWA Technology Details

9.16.2 BSWA Technology Major Business

9.16.3 BSWA Technology Binaural Recording Microphone Product and Services

9.16.4 BSWA Technology Binaural Recording Microphone Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 BSWA Technology Recent Developments/Updates

9.16.6 BSWA Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Binaural Recording Microphone Industry Chain

10.2 Binaural Recording Microphone Upstream Analysis

10.2.1 Binaural Recording Microphone Core Raw Materials

10.2.2 Main Manufacturers of Binaural Recording Microphone Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Binaural Recording Microphone Production Mode

10.6 Binaural Recording Microphone Procurement Model

10.7 Binaural Recording Microphone Industry Sales Model and Sales Channels

10.7.1 Binaural Recording Microphone Sales Model

10.7.2 Binaural Recording 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 Binaural Recording Microphone Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

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

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

Table 6. World Binaural Recording Microphone Production by Region (2021-2026) & (Units)

Table 7. World Binaural Recording Microphone Production by Region (2027-2032) & (Units)

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

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

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

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

Table 12. Binaural Recording Microphone Major Market Trends

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

Table 14. World Binaural Recording Microphone Consumption by Region (2021-2026) & (Units)

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

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

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

Table 18. World Binaural Recording Microphone Production by Manufacturer (2021-2026) & (Units)

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

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

Table 21. Global Binaural Recording Microphone Company Evaluation Quadrant

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

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

Table 24. Binaural Recording Microphone Market: Company Product Type Footprint

Table 25. Binaural Recording Microphone Market: Company Product Application Footprint

Table 26. Binaural Recording Microphone Competitive Factors

Table 27. Binaural Recording Microphone New Entrant and Capacity Expansion Plans

Table 28. Binaural Recording Microphone Mergers & Acquisitions Activity

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

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

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

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

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

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

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

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

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

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

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

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

Table 41. China Based Manufacturers Binaural Recording Microphone Production Market Share (2021-2026)

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

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

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

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

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

Table 47. World Binaural Recording Microphone Production Value by Mounting Form, (USD Million), 2021 & 2025 & 2032

Table 48. World Binaural Recording Microphone Production by Mounting Form (2021-2026) & (Units)

Table 49. World Binaural Recording Microphone Production by Mounting Form (2027-2032) & (Units)

Table 50. World Binaural Recording Microphone Production Value by Mounting Form (2021-2026) & (USD Million)

Table 51. World Binaural Recording Microphone Production Value by Mounting Form (2027-2032) & (USD Million)

Table 52. World Binaural Recording Microphone Average Price by Mounting Form (2021-2026) & (US\$/Unit)

Table 53. World Binaural Recording Microphone Average Price by Mounting Form (2027-2032) & (US\$/Unit)

Table 54. World Binaural Recording Microphone Production Value by Main Interface, (USD Million), 2021 & 2025 & 2032

Table 55. World Binaural Recording Microphone Production by Main Interface (2021-2026) & (Units)

Table 56. World Binaural Recording Microphone Production by Main Interface (2027-2032) & (Units)

Table 57. World Binaural Recording Microphone Production Value by Main Interface (2021-2026) & (USD Million)

Table 58. World Binaural Recording Microphone Production Value by Main Interface (2027-2032) & (USD Million)

Table 59. World Binaural Recording Microphone Average Price by Main Interface (2021-2026) & (US\$/Unit)

Table 60. World Binaural Recording Microphone Average Price by Main Interface

(2027-2032) & (US\$/Unit)

Table 61. World Binaural Recording Microphone Production Value by Acoustic Simulation Structure, (USD Million), 2021 & 2025 & 2032

Table 62. World Binaural Recording Microphone Production by Acoustic Simulation Structure (2021-2026) & (Units)

Table 63. World Binaural Recording Microphone Production by Acoustic Simulation Structure (2027-2032) & (Units)

Table 64. World Binaural Recording Microphone Production Value by Acoustic Simulation Structure (2021-2026) & (USD Million)

Table 65. World Binaural Recording Microphone Production Value by Acoustic Simulation Structure (2027-2032) & (USD Million)

Table 66. World Binaural Recording Microphone Average Price by Acoustic Simulation Structure (2021-2026) & (US\$/Unit)

Table 67. World Binaural Recording Microphone Average Price by Acoustic Simulation Structure (2027-2032) & (US\$/Unit)

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

Table 69. World Binaural Recording Microphone Production by Application (2021-2026) & (Units)

Table 70. World Binaural Recording Microphone Production by Application (2027-2032) & (Units)

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

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

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

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

Table 75. 3Dio Basic Information, Manufacturing Base and Competitors

Table 76. 3Dio Major Business

Table 77. 3Dio Binaural Recording Microphone Product and Services

Table 78. 3Dio Binaural Recording Microphone Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. 3Dio Recent Developments/Updates

Table 80. 3Dio Competitive Strengths & Weaknesses

Table 81. Roland Basic Information, Manufacturing Base and Competitors

Table 82. Roland Major Business

Table 83. Roland Binaural Recording Microphone Product and Services

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

Table 85. Roland Recent Developments/Updates

Table 86. Roland Competitive Strengths & Weaknesses

Table 87. DPA Microphones Basic Information, Manufacturing Base and Competitors

Table 88. DPA Microphones Major Business

Table 89. DPA Microphones Binaural Recording Microphone Product and Services

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

Table 91. DPA Microphones Recent Developments/Updates

Table 92. DPA Microphones Competitive Strengths & Weaknesses

Table 93. Neumann Basic Information, Manufacturing Base and Competitors

Table 94. Neumann Major Business

Table 95. Neumann Binaural Recording Microphone Product and Services

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

Table 97. Neumann Recent Developments/Updates

Table 98. Neumann Competitive Strengths & Weaknesses

Table 99. HEAD acoustics Basic Information, Manufacturing Base and Competitors

Table 100. HEAD acoustics Major Business

Table 101. HEAD acoustics Binaural Recording Microphone Product and Services

Table 102. HEAD acoustics Binaural Recording Microphone Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. HEAD acoustics Recent Developments/Updates

Table 104. HEAD acoustics Competitive Strengths & Weaknesses

Table 105. GRAS Sound & Vibration Basic Information, Manufacturing Base and Competitors

Table 106. GRAS Sound & Vibration Major Business

Table 107. GRAS Sound & Vibration Binaural Recording Microphone Product and Services

Table 108. GRAS Sound & Vibration Binaural Recording Microphone Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. GRAS Sound & Vibration Recent Developments/Updates

Table 110. GRAS Sound & Vibration Competitive Strengths & Weaknesses

Table 111. radius Basic Information, Manufacturing Base and Competitors

Table 112. radius Major Business

Table 113. radius Binaural Recording Microphone Product and Services

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

Table 115. radius Recent Developments/Updates

Table 116. radius Competitive Strengths & Weaknesses

Table 117. Bit Trade One Basic Information, Manufacturing Base and Competitors

Table 118. Bit Trade One Major Business

Table 119. Bit Trade One Binaural Recording Microphone Product and Services

Table 120. Bit Trade One Binaural Recording Microphone Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Bit Trade One Recent Developments/Updates

Table 122. Bit Trade One Competitive Strengths & Weaknesses

Table 123. HEADREC Basic Information, Manufacturing Base and Competitors

Table 124. HEADREC Major Business

Table 125. HEADREC Binaural Recording Microphone Product and Services

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

Table 127. HEADREC Recent Developments/Updates

Table 128. HEADREC Competitive Strengths & Weaknesses

Table 129. SR3D Binaural Microphones Basic Information, Manufacturing Base and Competitors

Table 130. SR3D Binaural Microphones Major Business

Table 131. SR3D Binaural Microphones Binaural Recording Microphone Product and Services

Table 132. SR3D Binaural Microphones Binaural Recording Microphone Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. SR3D Binaural Microphones Recent Developments/Updates

Table 134. SR3D Binaural Microphones Competitive Strengths & Weaknesses

Table 135. SonicPresence Basic Information, Manufacturing Base and Competitors

Table 136. SonicPresence Major Business

Table 137. SonicPresence Binaural Recording Microphone Product and Services

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

Table 139. SonicPresence Recent Developments/Updates

Table 140. SonicPresence Competitive Strengths & Weaknesses
Table 141. Core Sound Basic Information, Manufacturing Base and Competitors
Table 142. Core Sound Major Business
Table 143. Core Sound Binaural Recording Microphone Product and Services
Table 144. Core Sound Binaural Recording Microphone Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Core Sound Recent Developments/Updates
Table 146. Core Sound Competitive Strengths & Weaknesses
Table 147. Sound Professionals Basic Information, Manufacturing Base and Competitors
Table 148. Sound Professionals Major Business
Table 149. Sound Professionals Binaural Recording Microphone Product and Services
Table 150. Sound Professionals Binaural Recording Microphone Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Sound Professionals Recent Developments/Updates
Table 152. Sound Professionals Competitive Strengths & Weaknesses
Table 153. Immersive Soundscapes Basic Information, Manufacturing Base and Competitors
Table 154. Immersive Soundscapes Major Business
Table 155. Immersive Soundscapes Binaural Recording Microphone Product and Services
Table 156. Immersive Soundscapes Binaural Recording Microphone Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Immersive Soundscapes Recent Developments/Updates
Table 158. Immersive Soundscapes Competitive Strengths & Weaknesses
Table 159. Soundman Basic Information, Manufacturing Base and Competitors
Table 160. Soundman Major Business
Table 161. Soundman Binaural Recording Microphone Product and Services
Table 162. Soundman Binaural Recording Microphone Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Soundman Recent Developments/Updates
Table 164. Soundman Competitive Strengths & Weaknesses
Table 165. BSWA Technology Basic Information, Manufacturing Base and Competitors
Table 166. BSWA Technology Major Business
Table 167. BSWA Technology Binaural Recording Microphone Product and Services

Table 168. BSWA Technology Binaural Recording Microphone Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. BSWA Technology Recent Developments/Updates

Table 170. BSWA Technology Competitive Strengths & Weaknesses

Table 171. Global Key Players of Binaural Recording Microphone Upstream (Raw Materials)

Table 172. Global Binaural Recording Microphone Typical Customers

Table 173. Binaural Recording Microphone Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Binaural Recording Microphone Picture

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

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

Figure 4. World Binaural Recording Microphone Production (2021-2032) & (Units)

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

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

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

Figure 8. North America Binaural Recording Microphone Production (2021-2032) & (Units)

Figure 9. Europe Binaural Recording Microphone Production (2021-2032) & (Units)

Figure 10. China Binaural Recording Microphone Production (2021-2032) & (Units)

Figure 11. Japan Binaural Recording Microphone Production (2021-2032) & (Units)

Figure 12. South Korea Binaural Recording Microphone Production (2021-2032) & (Units)

Figure 13. Southeast Asia Binaural Recording Microphone Production (2021-2032) & (Units)

Figure 14. China Taiwan Binaural Recording Microphone Production (2021-2032) & (Units)

Figure 15. Binaural Recording Microphone Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Binaural Recording Microphone Consumption (2021-2032) & (Units)

Figure 18. World Binaural Recording Microphone Consumption Market Share by Region (2021-2032)

Figure 19. United States Binaural Recording Microphone Consumption (2021-2032) & (Units)

Figure 20. China Binaural Recording Microphone Consumption (2021-2032) & (Units)

Figure 21. Europe Binaural Recording Microphone Consumption (2021-2032) & (Units)

Figure 22. Japan Binaural Recording Microphone Consumption (2021-2032) & (Units)

Figure 23. South Korea Binaural Recording Microphone Consumption (2021-2032) & (Units)

Figure 24. ASEAN Binaural Recording Microphone Consumption (2021-2032) & (Units)

Figure 25. India Binaural Recording Microphone Consumption (2021-2032) & (Units)

Figure 26. Producer Shipments of Binaural Recording Microphone by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Binaural Recording Microphone Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Binaural Recording Microphone Markets in 2025

Figure 29. United States VS China: Binaural Recording Microphone Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Binaural Recording Microphone Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Binaural Recording Microphone Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Binaural Recording Microphone Production Market Share 2025

Figure 33. China Based Manufacturers Binaural Recording Microphone Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Binaural Recording Microphone Production Market Share 2025

Figure 35. World Binaural Recording Microphone Production Value by Mounting Form, (USD Million), 2021 & 2025 & 2032

Figure 36. World Binaural Recording Microphone Production Value Market Share by Mounting Form in 2025

Figure 37. In-Ear Wearing Binaural Recording Microphone

Figure 38. Ear-Hook Wearing Binaural Recording Microphone

Figure 39. Head-Mounted Wearing Binaural Recording Microphone

Figure 40. Desktop Stand Binaural Recording Microphone

Figure 41. Other

Figure 42. World Binaural Recording Microphone Production Market Share by Mounting Form (2021-2032)

Figure 43. World Binaural Recording Microphone Production Value Market Share by Mounting Form (2021-2032)

Figure 44. World Binaural Recording Microphone Average Price by Mounting Form (2021-2032) & (US\$/Unit)

Figure 45. World Binaural Recording Microphone Production Value by Main Interface, (USD Million), 2021 & 2025 & 2032

Figure 46. World Binaural Recording Microphone Production Value Market Share by Main Interface in 2025

Figure 47. 3.5 mm Main Interface Binaural Recording Microphone

Figure 48. USB Main Interface Binaural Recording Microphone

Figure 49. XLR Main Interface Binaural Recording Microphone

Figure 50. ICP Main Interface Binaural Recording Microphone

Figure 51. LEMO Main Interface Binaural Recording Microphone

Figure 52. Dedicated Data Acquisition Interface Binaural Recording Microphone

Figure 53. World Binaural Recording Microphone Production Market Share by Main Interface (2021-2032)

Figure 54. World Binaural Recording Microphone Production Value Market Share by Main Interface (2021-2032)

Figure 55. World Binaural Recording Microphone Average Price by Main Interface (2021-2032) & (US\$/Unit)

Figure 56. World Binaural Recording Microphone Production Value by Acoustic Simulation Structure, (USD Million), 2021 & 2025 & 2032

Figure 57. World Binaural Recording Microphone Production Value Market Share by Acoustic Simulation Structure in 2025

Figure 58. Real Human Capture Binaural Recording Microphone

Figure 59. Outer Pinna Simulation Binaural Recording Microphone

Figure 60. Full Head Simulation Binaural Recording Microphone

Figure 61. Head and Torso Simulation Binaural Recording Microphone

Figure 62. Other

Figure 63. World Binaural Recording Microphone Production Market Share by Acoustic Simulation Structure (2021-2032)

Figure 64. World Binaural Recording Microphone Production Value Market Share by Acoustic Simulation Structure (2021-2032)

Figure 65. World Binaural Recording Microphone Average Price by Acoustic Simulation Structure (2021-2032) & (US\$/Unit)

Figure 66. World Binaural Recording Microphone Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 67. World Binaural Recording Microphone Production Value Market Share by Application in 2025

Figure 68. ASMR Content Recording

Figure 69. Natural Environment Sound Recording

Figure 70. Live Music Recording

Figure 71. VR Spatial Audio Production

Figure 72. Film Foley Recording

Figure 73. Product Sound Quality Testing

Figure 74. World Binaural Recording Microphone Production Market Share by Application (2021-2032)

Figure 75. World Binaural Recording Microphone Production Value Market Share by Application (2021-2032)

Figure 76. World Binaural Recording Microphone Average Price by Application (2021-2032) & (US\$/Unit)

Figure 77. Binaural Recording Microphone Industry Chain

Figure 78. Binaural Recording Microphone Procurement Model

Figure 79. Binaural Recording Microphone Sales Model

Figure 80. Binaural Recording Microphone Sales Channels, Direct Sales, and Distribution

Figure 81. Methodology

Figure 82. Research Process and Data Source

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