

Global Acoustic Detection Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Acoustic Detection market size is expected to reach \$ 1050 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

Acoustic detection device locates leaks by characterizing and differentiating leak sounds from those of normal water flow through the distribution system. Acoustic Detection systems are sound-based detection platforms that use microphone arrays, ultrasonic sensors, acoustic-emission sensors, and signal-processing software to capture, localize, classify, and alarm on audible, ultrasonic, or transient acoustic signatures generated by equipment, pipelines, structures, or environments. They are mainly used for leak detection, fault diagnosis, partial discharge identification, gunshot/threat detection, and environmental or ecological monitoring, with core value in non-contact sensing, real-time operation, online deployment, and high-sensitivity anomaly recognition.

The upstream chain mainly includes MEMS microphones, ultrasonic/acoustic-emission sensors, accelerometers, edge processors, DAQ hardware, wireless communication modules, batteries, and ruggedized enclosures. Midstream value creation lies in array design, beamforming, signal processing, AI-based anomaly recognition, localization algorithms, cloud platforms, and reporting software. Downstream demand comes from industrial maintenance, compressed-air and gas systems, oil & gas and chemicals, water networks, public safety, and marine/ecological monitoring.

In 2025, global acoustic detection device production reached approximately 700k units, with an average global market price is \$1,000 per unit.

Acoustic Detection generally refers to a class of technologies and devices that use

microphone arrays, ultrasonic sensing, acoustic imaging, and algorithm-based analysis to identify, localize, and assess abnormal sound sources in equipment or operating environments. In today's market, the category has moved well beyond traditional listening tools or single-point ultrasonic detectors. A growing share of products now visualize sound sources and are positioned for compressed air, gas, and vacuum leak detection, electrical partial discharge inspection, and early mechanical fault identification. Public product materials from Fluke and FLIR clearly position these use cases as core applications, showing that acoustic detection is becoming an increasingly important tool in industrial inspection and power-system maintenance.

Market demand is being driven mainly by three factors. First, manufacturers and utilities are placing more emphasis on predictive maintenance, creating stronger demand for early detection of leaks, partial discharge, and mechanical anomalies. Second, companies are paying closer attention to energy losses and downtime risk, especially the hidden cost of compressed air and gas leaks. Third, users increasingly prefer non-contact, visual, and fast-scanning inspection methods that reduce reliance on operator experience and improve inspection efficiency. As a result, competition is shifting from basic sound pickup toward localization accuracy, performance in noisy environments, defect classification and severity assessment, and integration with inspection software and asset-management workflows.

Overall, Acoustic Detection is evolving from a point-based inspection tool into a broader solution combining portable imaging hardware, application-specific algorithms, and maintenance decision support. The clearest near-term growth areas remain industrial leak detection, partial discharge inspection for electrical assets, mechanical fault screening, and condition monitoring in manufacturing and utility environments. Going forward, product development is likely to place greater emphasis on imaging clarity, detection speed, long-range recognition, software analytics, and digital maintenance integration, which means competition will increasingly favor system-level solutions rather than hardware alone.

This report studies the global Acoustic Detection production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Acoustic Detection total production and demand, 2021-2032, (K Units)

Global Acoustic Detection total production value, 2021-2032, (USD Million)

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

Global Acoustic Detection consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Acoustic Detection domestic production, consumption, key domestic manufacturers and share

Global Acoustic Detection production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Acoustic Detection production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Acoustic Detection production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Acoustic Detection 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 Teledyne FLIR, Fluke, NL Acoustics, UE Systems, SDT Ultrasound, SUTO iTEC, MSAsafety, GUTERMANN, Hermann Sewerin, Echologics, 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 Acoustic Detection market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Acoustic Detection Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Acoustic Detection Market, Segmentation by Type:

Gas Leak Detection

Liquid Leak Detection

Global Acoustic Detection Market, Segmentation by Product Form:

Portable

Online Fixed Monitoring System

Acoustic Imaging Array

Global Acoustic Detection Market, Segmentation by Detection Principle:

Audible Acoustic Monitoring

Airborne Ultrasonics

Acoustic Emission Detection

Global Acoustic Detection Market, Segmentation by Application:

Chemical

Oil and Gas

Environmental Protection

Others

Companies Profiled:

Teledyne FLIR

Fluke

NL Acoustics

UE Systems

SDT Ultrasound

SUTO iTEC

MSAsafety

GUTERMANN

Hermann Sewerin

Echologics

Ovarro

HWM Global

KeyGoTech

Syrinix

CRYSOUND

RION

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Acoustic Detection Production Value by Manufacturer (2021-2026)

- 3.2 World Acoustic Detection Production by Manufacturer (2021-2026)
- 3.3 World Acoustic Detection Average Price by Manufacturer (2021-2026)
- 3.4 Acoustic Detection Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Acoustic Detection Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Acoustic Detection in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Acoustic Detection in 2025
- 3.6 Acoustic Detection Market: Overall Company Footprint Analysis
 - 3.6.1 Acoustic Detection Market: Region Footprint
 - 3.6.2 Acoustic Detection Market: Company Product Type Footprint
 - 3.6.3 Acoustic Detection 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: Acoustic Detection Production Value Comparison
 - 4.1.1 United States VS China: Acoustic Detection Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Acoustic Detection Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Acoustic Detection Production Comparison
 - 4.2.1 United States VS China: Acoustic Detection Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Acoustic Detection Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Acoustic Detection Consumption Comparison
 - 4.3.1 United States VS China: Acoustic Detection Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Acoustic Detection Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Acoustic Detection Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Acoustic Detection Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Acoustic Detection Production Value (2021-2026)

4.4.3 United States Based Manufacturers Acoustic Detection Production (2021-2026)

4.5 China Based Acoustic Detection Manufacturers and Market Share

4.5.1 China Based Acoustic Detection Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Acoustic Detection Production Value (2021-2026)

4.5.3 China Based Manufacturers Acoustic Detection Production (2021-2026)

4.6 Rest of World Based Acoustic Detection Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Acoustic Detection Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Acoustic Detection Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Acoustic Detection Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Acoustic Detection Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Gas Leak Detection

5.2.2 Liquid Leak Detection

5.3 Market Segment by Type

5.3.1 World Acoustic Detection Production by Type (2021-2032)

5.3.2 World Acoustic Detection Production Value by Type (2021-2032)

5.3.3 World Acoustic Detection Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRODUCT FORM

6.1 World Acoustic Detection Market Size Overview by Product Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Product Form

6.2.1 Portable

6.2.2 Online Fixed Monitoring System

6.2.3 Acoustic Imaging Array

6.3 Market Segment by Product Form

6.3.1 World Acoustic Detection Production by Product Form (2021-2032)

6.3.2 World Acoustic Detection Production Value by Product Form (2021-2032)

6.3.3 World Acoustic Detection Average Price by Product Form (2021-2032)

7 MARKET ANALYSIS BY DETECTION PRINCIPLE

7.1 World Acoustic Detection Market Size Overview by Detection Principle: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Detection Principle

7.2.1 Audible Acoustic Monitoring

7.2.2 Airborne Ultrasonics

7.2.3 Acoustic Emission Detection

7.3 Market Segment by Detection Principle

7.3.1 World Acoustic Detection Production by Detection Principle (2021-2032)

7.3.2 World Acoustic Detection Production Value by Detection Principle (2021-2032)

7.3.3 World Acoustic Detection Average Price by Detection Principle (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Acoustic Detection Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Chemical

8.2.2 Oil and Gas

8.2.3 Environmental Protection

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Acoustic Detection Production by Application (2021-2032)

8.3.2 World Acoustic Detection Production Value by Application (2021-2032)

8.3.3 World Acoustic Detection Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Teledyne FLIR

9.1.1 Teledyne FLIR Details

9.1.2 Teledyne FLIR Major Business

9.1.3 Teledyne FLIR Acoustic Detection Product and Services

9.1.4 Teledyne FLIR Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Teledyne FLIR Recent Developments/Updates

9.1.6 Teledyne FLIR Competitive Strengths & Weaknesses

9.2 Fluke

- 9.2.1 Fluke Details
- 9.2.2 Fluke Major Business
- 9.2.3 Fluke Acoustic Detection Product and Services
- 9.2.4 Fluke Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Fluke Recent Developments/Updates
- 9.2.6 Fluke Competitive Strengths & Weaknesses
- 9.3 NL Acoustics
 - 9.3.1 NL Acoustics Details
 - 9.3.2 NL Acoustics Major Business
 - 9.3.3 NL Acoustics Acoustic Detection Product and Services
 - 9.3.4 NL Acoustics Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 NL Acoustics Recent Developments/Updates
 - 9.3.6 NL Acoustics Competitive Strengths & Weaknesses
- 9.4 UE Systems
 - 9.4.1 UE Systems Details
 - 9.4.2 UE Systems Major Business
 - 9.4.3 UE Systems Acoustic Detection Product and Services
 - 9.4.4 UE Systems Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 UE Systems Recent Developments/Updates
 - 9.4.6 UE Systems Competitive Strengths & Weaknesses
- 9.5 SDT Ultrasound
 - 9.5.1 SDT Ultrasound Details
 - 9.5.2 SDT Ultrasound Major Business
 - 9.5.3 SDT Ultrasound Acoustic Detection Product and Services
 - 9.5.4 SDT Ultrasound Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 SDT Ultrasound Recent Developments/Updates
 - 9.5.6 SDT Ultrasound Competitive Strengths & Weaknesses
- 9.6 SUTO iTEC
 - 9.6.1 SUTO iTEC Details
 - 9.6.2 SUTO iTEC Major Business
 - 9.6.3 SUTO iTEC Acoustic Detection Product and Services
 - 9.6.4 SUTO iTEC Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 SUTO iTEC Recent Developments/Updates
 - 9.6.6 SUTO iTEC Competitive Strengths & Weaknesses

9.7 MSAsafety

9.7.1 MSAsafety Details

9.7.2 MSAsafety Major Business

9.7.3 MSAsafety Acoustic Detection Product and Services

9.7.4 MSAsafety Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 MSAsafety Recent Developments/Updates

9.7.6 MSAsafety Competitive Strengths & Weaknesses

9.8 GUTERMANN

9.8.1 GUTERMANN Details

9.8.2 GUTERMANN Major Business

9.8.3 GUTERMANN Acoustic Detection Product and Services

9.8.4 GUTERMANN Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 GUTERMANN Recent Developments/Updates

9.8.6 GUTERMANN Competitive Strengths & Weaknesses

9.9 Hermann Sewerin

9.9.1 Hermann Sewerin Details

9.9.2 Hermann Sewerin Major Business

9.9.3 Hermann Sewerin Acoustic Detection Product and Services

9.9.4 Hermann Sewerin Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Hermann Sewerin Recent Developments/Updates

9.9.6 Hermann Sewerin Competitive Strengths & Weaknesses

9.10 Echologics

9.10.1 Echologics Details

9.10.2 Echologics Major Business

9.10.3 Echologics Acoustic Detection Product and Services

9.10.4 Echologics Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Echologics Recent Developments/Updates

9.10.6 Echologics Competitive Strengths & Weaknesses

9.11 Ovarro

9.11.1 Ovarro Details

9.11.2 Ovarro Major Business

9.11.3 Ovarro Acoustic Detection Product and Services

9.11.4 Ovarro Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Ovarro Recent Developments/Updates

- 9.11.6 Ovarro Competitive Strengths & Weaknesses
- 9.12 HWM Global
 - 9.12.1 HWM Global Details
 - 9.12.2 HWM Global Major Business
 - 9.12.3 HWM Global Acoustic Detection Product and Services
 - 9.12.4 HWM Global Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 HWM Global Recent Developments/Updates
 - 9.12.6 HWM Global Competitive Strengths & Weaknesses
- 9.13 KeyGoTech
 - 9.13.1 KeyGoTech Details
 - 9.13.2 KeyGoTech Major Business
 - 9.13.3 KeyGoTech Acoustic Detection Product and Services
 - 9.13.4 KeyGoTech Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 KeyGoTech Recent Developments/Updates
 - 9.13.6 KeyGoTech Competitive Strengths & Weaknesses
- 9.14 Syrinix
 - 9.14.1 Syrinix Details
 - 9.14.2 Syrinix Major Business
 - 9.14.3 Syrinix Acoustic Detection Product and Services
 - 9.14.4 Syrinix Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Syrinix Recent Developments/Updates
 - 9.14.6 Syrinix Competitive Strengths & Weaknesses
- 9.15 CRY SOUND
 - 9.15.1 CRY SOUND Details
 - 9.15.2 CRY SOUND Major Business
 - 9.15.3 CRY SOUND Acoustic Detection Product and Services
 - 9.15.4 CRY SOUND Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 CRY SOUND Recent Developments/Updates
 - 9.15.6 CRY SOUND Competitive Strengths & Weaknesses
- 9.16 RION
 - 9.16.1 RION Details
 - 9.16.2 RION Major Business
 - 9.16.3 RION Acoustic Detection Product and Services
 - 9.16.4 RION Acoustic Detection Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 RION Recent Developments/Updates

9.16.6 RION Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Acoustic Detection Industry Chain

10.2 Acoustic Detection Upstream Analysis

10.2.1 Acoustic Detection Core Raw Materials

10.2.2 Main Manufacturers of Acoustic Detection Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Acoustic Detection Production Mode

10.6 Acoustic Detection Procurement Model

10.7 Acoustic Detection Industry Sales Model and Sales Channels

10.7.1 Acoustic Detection Sales Model

10.7.2 Acoustic Detection 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 Acoustic Detection Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

Table 4. World Acoustic Detection Production Value Market Share by Region (2021-2026)

Table 5. World Acoustic Detection Production Value Market Share by Region (2027-2032)

Table 6. World Acoustic Detection Production by Region (2021-2026) & (K Units)

Table 7. World Acoustic Detection Production by Region (2027-2032) & (K Units)

Table 8. World Acoustic Detection Production Market Share by Region (2021-2026)

Table 9. World Acoustic Detection Production Market Share by Region (2027-2032)

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

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

Table 12. Acoustic Detection Major Market Trends

Table 13. World Acoustic Detection Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Acoustic Detection Consumption by Region (2021-2026) & (K Units)

Table 15. World Acoustic Detection Consumption Forecast by Region (2027-2032) & (K Units)

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

Table 17. Production Value Market Share of Key Acoustic Detection Producers in 2025

Table 18. World Acoustic Detection Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Acoustic Detection Producers in 2025

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

Table 21. Global Acoustic Detection Company Evaluation Quadrant

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

Table 23. Head Office and Acoustic Detection Production Site of Key Manufacturer

Table 24. Acoustic Detection Market: Company Product Type Footprint

Table 25. Acoustic Detection Market: Company Product Application Footprint
Table 26. Acoustic Detection Competitive Factors
Table 27. Acoustic Detection New Entrant and Capacity Expansion Plans
Table 28. Acoustic Detection Mergers & Acquisitions Activity
Table 29. United States VS China Acoustic Detection Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Acoustic Detection Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China Acoustic Detection Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based Acoustic Detection Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Acoustic Detection Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Acoustic Detection Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Acoustic Detection Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers Acoustic Detection Production Market Share (2021-2026)
Table 37. China Based Acoustic Detection Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Acoustic Detection Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Acoustic Detection Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Acoustic Detection Production, (2021-2026) & (K Units)
Table 41. China Based Manufacturers Acoustic Detection Production Market Share (2021-2026)
Table 42. Rest of World Based Acoustic Detection Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Acoustic Detection Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Acoustic Detection Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Acoustic Detection Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers Acoustic Detection Production Market

Share (2021-2026)

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

Table 48. World Acoustic Detection Production by Type (2021-2026) & (K Units)

Table 49. World Acoustic Detection Production by Type (2027-2032) & (K Units)

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

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

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

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

Table 54. World Acoustic Detection Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Acoustic Detection Production by Product Form (2021-2026) & (K Units)

Table 56. World Acoustic Detection Production by Product Form (2027-2032) & (K Units)

Table 57. World Acoustic Detection Production Value by Product Form (2021-2026) & (USD Million)

Table 58. World Acoustic Detection Production Value by Product Form (2027-2032) & (USD Million)

Table 59. World Acoustic Detection Average Price by Product Form (2021-2026) & (US\$/Unit)

Table 60. World Acoustic Detection Average Price by Product Form (2027-2032) & (US\$/Unit)

Table 61. World Acoustic Detection Production Value by Detection Principle, (USD Million), 2021 & 2025 & 2032

Table 62. World Acoustic Detection Production by Detection Principle (2021-2026) & (K Units)

Table 63. World Acoustic Detection Production by Detection Principle (2027-2032) & (K Units)

Table 64. World Acoustic Detection Production Value by Detection Principle (2021-2026) & (USD Million)

Table 65. World Acoustic Detection Production Value by Detection Principle (2027-2032) & (USD Million)

Table 66. World Acoustic Detection Average Price by Detection Principle (2021-2026) & (US\$/Unit)

Table 67. World Acoustic Detection Average Price by Detection Principle (2027-2032) & (US\$/Unit)

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

Table 69. World Acoustic Detection Production by Application (2021-2026) & (K Units)

Table 70. World Acoustic Detection Production by Application (2027-2032) & (K Units)

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

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

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

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

Table 75. Teledyne FLIR Basic Information, Manufacturing Base and Competitors

Table 76. Teledyne FLIR Major Business

Table 77. Teledyne FLIR Acoustic Detection Product and Services

Table 78. Teledyne FLIR Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Teledyne FLIR Recent Developments/Updates

Table 80. Teledyne FLIR Competitive Strengths & Weaknesses

Table 81. Fluke Basic Information, Manufacturing Base and Competitors

Table 82. Fluke Major Business

Table 83. Fluke Acoustic Detection Product and Services

Table 84. Fluke Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Fluke Recent Developments/Updates

Table 86. Fluke Competitive Strengths & Weaknesses

Table 87. NL Acoustics Basic Information, Manufacturing Base and Competitors

Table 88. NL Acoustics Major Business

Table 89. NL Acoustics Acoustic Detection Product and Services

Table 90. NL Acoustics Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. NL Acoustics Recent Developments/Updates

Table 92. NL Acoustics Competitive Strengths & Weaknesses

Table 93. UE Systems Basic Information, Manufacturing Base and Competitors

Table 94. UE Systems Major Business

Table 95. UE Systems Acoustic Detection Product and Services

Table 96. UE Systems Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. UE Systems Recent Developments/Updates

Table 98. UE Systems Competitive Strengths & Weaknesses
Table 99. SDT Ultrasound Basic Information, Manufacturing Base and Competitors
Table 100. SDT Ultrasound Major Business
Table 101. SDT Ultrasound Acoustic Detection Product and Services
Table 102. SDT Ultrasound Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. SDT Ultrasound Recent Developments/Updates
Table 104. SDT Ultrasound Competitive Strengths & Weaknesses
Table 105. SUTO iTEC Basic Information, Manufacturing Base and Competitors
Table 106. SUTO iTEC Major Business
Table 107. SUTO iTEC Acoustic Detection Product and Services
Table 108. SUTO iTEC Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. SUTO iTEC Recent Developments/Updates
Table 110. SUTO iTEC Competitive Strengths & Weaknesses
Table 111. MSAsafety Basic Information, Manufacturing Base and Competitors
Table 112. MSAsafety Major Business
Table 113. MSAsafety Acoustic Detection Product and Services
Table 114. MSAsafety Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. MSAsafety Recent Developments/Updates
Table 116. MSAsafety Competitive Strengths & Weaknesses
Table 117. GUTERMANN Basic Information, Manufacturing Base and Competitors
Table 118. GUTERMANN Major Business
Table 119. GUTERMANN Acoustic Detection Product and Services
Table 120. GUTERMANN Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. GUTERMANN Recent Developments/Updates
Table 122. GUTERMANN Competitive Strengths & Weaknesses
Table 123. Hermann Sewerin Basic Information, Manufacturing Base and Competitors
Table 124. Hermann Sewerin Major Business
Table 125. Hermann Sewerin Acoustic Detection Product and Services
Table 126. Hermann Sewerin Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Hermann Sewerin Recent Developments/Updates
Table 128. Hermann Sewerin Competitive Strengths & Weaknesses
Table 129. Echologics Basic Information, Manufacturing Base and Competitors
Table 130. Echologics Major Business
Table 131. Echologics Acoustic Detection Product and Services

Table 132. Echologics Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Echologics Recent Developments/Updates
Table 134. Echologics Competitive Strengths & Weaknesses
Table 135. Ovarro Basic Information, Manufacturing Base and Competitors
Table 136. Ovarro Major Business
Table 137. Ovarro Acoustic Detection Product and Services
Table 138. Ovarro Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Ovarro Recent Developments/Updates
Table 140. Ovarro Competitive Strengths & Weaknesses
Table 141. HWM Global Basic Information, Manufacturing Base and Competitors
Table 142. HWM Global Major Business
Table 143. HWM Global Acoustic Detection Product and Services
Table 144. HWM Global Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. HWM Global Recent Developments/Updates
Table 146. HWM Global Competitive Strengths & Weaknesses
Table 147. KeyGoTech Basic Information, Manufacturing Base and Competitors
Table 148. KeyGoTech Major Business
Table 149. KeyGoTech Acoustic Detection Product and Services
Table 150. KeyGoTech Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. KeyGoTech Recent Developments/Updates
Table 152. KeyGoTech Competitive Strengths & Weaknesses
Table 153. Syrinix Basic Information, Manufacturing Base and Competitors
Table 154. Syrinix Major Business
Table 155. Syrinix Acoustic Detection Product and Services
Table 156. Syrinix Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Syrinix Recent Developments/Updates
Table 158. Syrinix Competitive Strengths & Weaknesses
Table 159. CRY SOUND Basic Information, Manufacturing Base and Competitors
Table 160. CRY SOUND Major Business
Table 161. CRY SOUND Acoustic Detection Product and Services
Table 162. CRY SOUND Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. CRY SOUND Recent Developments/Updates
Table 164. CRY SOUND Competitive Strengths & Weaknesses

Table 165. RION Basic Information, Manufacturing Base and Competitors

Table 166. RION Major Business

Table 167. RION Acoustic Detection Product and Services

Table 168. RION Acoustic Detection Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. RION Recent Developments/Updates

Table 170. RION Competitive Strengths & Weaknesses

Table 171. Global Key Players of Acoustic Detection Upstream (Raw Materials)

Table 172. Global Acoustic Detection Typical Customers

Table 173. Acoustic Detection Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Acoustic Detection Picture

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

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

Figure 4. World Acoustic Detection Production (2021-2032) & (K Units)

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

Figure 6. World Acoustic Detection Production Value Market Share by Region (2021-2032)

Figure 7. World Acoustic Detection Production Market Share by Region (2021-2032)

Figure 8. North America Acoustic Detection Production (2021-2032) & (K Units)

Figure 9. Europe Acoustic Detection Production (2021-2032) & (K Units)

Figure 10. China Acoustic Detection Production (2021-2032) & (K Units)

Figure 11. Japan Acoustic Detection Production (2021-2032) & (K Units)

Figure 12. Acoustic Detection Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Acoustic Detection Consumption (2021-2032) & (K Units)

Figure 15. World Acoustic Detection Consumption Market Share by Region (2021-2032)

Figure 16. United States Acoustic Detection Consumption (2021-2032) & (K Units)

Figure 17. China Acoustic Detection Consumption (2021-2032) & (K Units)

Figure 18. Europe Acoustic Detection Consumption (2021-2032) & (K Units)

Figure 19. Japan Acoustic Detection Consumption (2021-2032) & (K Units)

Figure 20. South Korea Acoustic Detection Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Acoustic Detection Consumption (2021-2032) & (K Units)

Figure 22. India Acoustic Detection Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Acoustic Detection by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Acoustic Detection Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Acoustic Detection Markets in 2025

Figure 26. United States VS China: Acoustic Detection Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Acoustic Detection Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Acoustic Detection Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Acoustic Detection Production Market Share 2025

Figure 30. China Based Manufacturers Acoustic Detection Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Acoustic Detection Production Market Share 2025

Figure 32. World Acoustic Detection Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Acoustic Detection Production Value Market Share by Type in 2025

Figure 34. Gas Leak Detection

Figure 35. Liquid Leak Detection

Figure 36. World Acoustic Detection Production Market Share by Type (2021-2032)

Figure 37. World Acoustic Detection Production Value Market Share by Type (2021-2032)

Figure 38. World Acoustic Detection Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Acoustic Detection Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 40. World Acoustic Detection Production Value Market Share by Product Form in 2025

Figure 41. Portable

Figure 42. Online Fixed Monitoring System

Figure 43. Acoustic Imaging Array

Figure 44. World Acoustic Detection Production Market Share by Product Form (2021-2032)

Figure 45. World Acoustic Detection Production Value Market Share by Product Form (2021-2032)

Figure 46. World Acoustic Detection Average Price by Product Form (2021-2032) & (US\$/Unit)

Figure 47. World Acoustic Detection Production Value by Detection Principle, (USD Million), 2021 & 2025 & 2032

Figure 48. World Acoustic Detection Production Value Market Share by Detection Principle in 2025

Figure 49. Audible Acoustic Monitoring

Figure 50. Airborne Ultrasonics

Figure 51. Acoustic Emission Detection

Figure 52. World Acoustic Detection Production Market Share by Detection Principle (2021-2032)

Figure 53. World Acoustic Detection Production Value Market Share by Detection Principle (2021-2032)

Figure 54. World Acoustic Detection Average Price by Detection Principle (2021-2032) & (US\$/Unit)

Figure 55. World Acoustic Detection Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Acoustic Detection Production Value Market Share by Application in 2025

Figure 57. Chemical

Figure 58. Oil and Gas

Figure 59. Environmental Protection

Figure 60. Others

Figure 61. World Acoustic Detection Production Market Share by Application (2021-2032)

Figure 62. World Acoustic Detection Production Value Market Share by Application (2021-2032)

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

Figure 64. Acoustic Detection Industry Chain

Figure 65. Acoustic Detection Procurement Model

Figure 66. Acoustic Detection Sales Model

Figure 67. Acoustic Detection Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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