

Global Acoustic Beamforming Arrays Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Acoustic Beamforming Arrays market size was valued at US\$ 217 million in 2024 and is forecast to a readjusted size of USD 346 million by 2031 with a CAGR of 6.9% during review period.

Acoustic beamforming arrays are imaging device used to locate sound sources and to characterize them. It consists of a group of microphones — also called microphone array — that are simultaneously acquired to form a representation of the location of the sound sources. With this method the sound signal is shown and also a sequence of acoustic images can be acquired as acoustic videos are generated at same time. Acoustic beamforming arrays enable the user to visualise different sound sources at different frequencies and source strengths. The resolution and ability to resolve sound sources spaced closely apart, and at lower frequencies, is mainly decided by overall size and number of microphones of the equipment being used.

Growing use of 2D acoustic cameras and 3D acoustic cameras across numerous industries will drive the global market. Acoustic cameras are increasingly used to enhance the noise emissions of vehicles, wind turbines, trains and heavy machinery. Advances in the automotive industry and the development of electric and autonomous vehicles have made reducing noise emissions very important for automakers. So they're using technologies like acoustic cameras. Subsequent implementation of stringent regulations by governments and other regulatory agencies aimed at reducing noise pollution from vehicles will affect the sales of acoustic cameras. Increasing adoption of acoustic cameras in the manufacturing industry will boost the market. By using an acoustic camera, users can easily find out why their products are making noise. This will allow them to modify the design of the product. In the industrial field, acoustic cameras

can detect leaks in compressed air systems, vacuum leaks, mechanical troubleshooting and electrical partial discharges. If these flaws go undetected, they can spell trouble and increase downtime. Growing focus on ensuring safe and efficient performance of machines across various industries will boost the market.

This report is a detailed and comprehensive analysis for global Acoustic Beamforming Arrays market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Acoustic Beamforming Arrays market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Acoustic Beamforming Arrays market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Acoustic Beamforming Arrays market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Acoustic Beamforming Arrays market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Acoustic Beamforming Arrays
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Acoustic Beamforming Arrays market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key

companies covered as a part of this study include Fluke, Siemens, Br el & Kj r, Sorama, Norsonic AS, Distran, SM Instruments, Gfai Tech, SDT, KeyGo Technologies, etc.

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

Market Segmentation

Acoustic Beamforming Arrays market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Two-Dimensional

Three-Dimensional

Market segment by Application

Energy and Power

Automotive

Electronics and Appliances

Aerospace

Others

Major players covered

Fluke

Siemens

Br?el & Kj?r

Sorama

Norsonic AS

Distran

SM Instruments

Gfai Tech

SDT

KeyGo Technologies

Teledyne FLIR

CAE Software & Systems

SONOTEC GmbH

CRYSOUND

SINUS Messtechnik

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Acoustic Beamforming Arrays product scope, market overview,

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market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Acoustic Beamforming Arrays, with price, sales quantity, revenue, and global market share of Acoustic Beamforming Arrays from 2020 to 2025.

Chapter 3, the Acoustic Beamforming Arrays competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Acoustic Beamforming Arrays breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Acoustic Beamforming Arrays market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Acoustic Beamforming Arrays.

Chapter 14 and 15, to describe Acoustic Beamforming Arrays sales channel, distributors, customers, research findings and conclusion.

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