

Global Directional Acoustic Beamforming Arrays Market Growth 2024-2030

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Abstracts

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Directional 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.

The global Directional Acoustic Beamforming Arrays market size is projected to grow from US\$ 182.3 million in 2023 to US\$ 299.9 million in 2030; it is expected to grow at a CAGR of 7.4% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “Directional Acoustic Beamforming Arrays Industry Forecast” looks at past sales and reviews total world Directional Acoustic Beamforming Arrays sales in 2023, providing a comprehensive analysis by region and market sector of projected Directional Acoustic Beamforming Arrays sales for 2024 through 2030. With Directional Acoustic Beamforming Arrays sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Directional Acoustic Beamforming Arrays industry.

This Insight Report provides a comprehensive analysis of the global Directional

Acoustic Beamforming Arrays landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Directional Acoustic Beamforming Arrays portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Directional Acoustic Beamforming Arrays market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Directional Acoustic Beamforming Arrays and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Directional Acoustic Beamforming Arrays.

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 presents a comprehensive overview, market shares, and growth opportunities of Directional Acoustic Beamforming Arrays market by product type, application, key manufacturers and key regions and countries.

Segmentation by type

Two-Dimensional

Three-Dimensional

Segmentation by application

Energy and Power

Automotive

Electronics and Appliances

Aerospace

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Fluke

Siemens

Brüel & Kjær

Sorama

Norsonic AS

Distran

SM Instruments

Gfai Tech

SDT

KeyGo Technologies

Teledyne FLIR

CAE Software & Systems

SONOTEC GmbH

CRYSOUND

SINUS Messtechnik

Key Questions Addressed in this Report

What is the 10-year outlook for the global Directional Acoustic Beamforming Arrays market?

What factors are driving Directional Acoustic Beamforming Arrays market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Directional Acoustic Beamforming Arrays market opportunities vary by end market size?

How does Directional Acoustic Beamforming Arrays break out type, application?

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