

Global Air Ultrasonic Imaging Detector Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Air Ultrasonic Imaging Detector market size was valued at US\$ 268 million in 2025 and is forecast to a readjusted size of US\$ 418 million by 2032 with a CAGR of 6.3% during review period.

The air ultrasonic imaging detector is a professional testing equipment developed based on air coupled ultrasonic technology and acoustic imaging algorithms. It can directly emit and receive ultrasonic waves through air as the propagation medium without the need for coupling agents. It can visually capture weak ultrasonic signals generated by partial discharge, gas leakage, vacuum leakage, and material micro defects of the equipment, accurately locate the location of abnormal sound sources, and is widely used in power operation and maintenance, industrial leak detection, equipment fault diagnosis and other fields, achieving non-contact, fast and efficient non-destructive testing and hidden danger investigation. The sales volume in 2025 is 47000 units, with an average price of \$5550, a total production capacity of 6500 units, and a gross profit margin of 40%.

The air ultrasonic imaging detector has gradually become an important tool for industrial safety inspection and non-destructive testing due to its non-contact detection, no need for coupling media, and fast and intuitive imaging characteristics. Compared to traditional detection methods, it is easy to operate and adaptable to a wider range of scenarios. It can efficiently identify hidden dangers such as gas leaks, electrical partial discharges, and minor defects in components. With the continuous improvement of industrial safety control requirements, the demand for preventive maintenance of equipment in various industries continues to rise, and the application scope of air ultrasonic testing related equipment is constantly expanding.

The industry as a whole is developing towards intelligence, integration, and miniaturization, and the integration of multiple technologies has become the mainstream trend. By combining intelligent algorithms to optimize signal recognition capabilities, the device can effectively filter environmental interference and improve the ability to capture and locate weak abnormal signals. At the same time, domestic technology continues to iterate and upgrade, and the practicality and adaptability of products continue to increase, gradually breaking down the application barriers of imported equipment. The focus of industry development has also shifted from selling single devices to upgrading customized testing solutions and supporting services.

This report is a detailed and comprehensive analysis for global Air Ultrasonic Imaging Detector 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 Air Ultrasonic Imaging Detector market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Air Ultrasonic Imaging Detector market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Air Ultrasonic Imaging Detector market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Air Ultrasonic Imaging Detector market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Air Ultrasonic Imaging Detector

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Air Ultrasonic Imaging Detector 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 Process Instruments, Br?el & Kj?r, Norsonic AS, SoundCam, Xi'an Lianfeng Xunsheng Information Technology Co., Ltd., Beijing Ensonic Tech Co., Ltd., Microflown Technologies, Listen, Inc., Rion Co., Ltd., Beijing Jiarui Shida Technology Co., Ltd., etc.

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

Market Segmentation

Air Ultrasonic Imaging Detector market is split by Type and by Application. For the period 2021-2032, 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

Sound Intensity Map

Leak Localization

Spectrum Analysis

Market segment by Hardware Form

Handheld

Fixed Mount

Mobile Platform

Market segment by Signal Type

Ultrasonic Detection

Broadband Acoustic Imaging

Microphone Array Imaging

Market segment by Application

Oil & Gas

Chemical & Pharmaceutical

Energy & Power

Others

Major players covered

Fluke Process Instruments

Brüel & Kjær

Norsonic AS

SoundCam

Xi'an Lianfeng Xunsheng Information Technology Co., Ltd.

Beijing Ensonic Tech Co., Ltd.

Microflown Technologies

Listen, Inc.

Rion Co., Ltd.

Beijing Jiarui Shida Technology Co., Ltd.

Senseven

Baker Hughes

Teledyne FLIR

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 Air Ultrasonic Imaging Detector product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Air Ultrasonic Imaging Detector, with price, sales quantity, revenue, and global market share of Air Ultrasonic Imaging Detector from 2021 to 2026.

Chapter 3, the Air Ultrasonic Imaging Detector competitive situation, sales quantity,

revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Air Ultrasonic Imaging Detector breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Air Ultrasonic Imaging Detector market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Air Ultrasonic Imaging Detector.

Chapter 14 and 15, to describe Air Ultrasonic Imaging Detector sales channel, distributors, customers, research findings and conclusion.

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