

Global Air Ultrasonic Imaging Detector Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Air Ultrasonic Imaging Detector market size is expected to reach \$ 418 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

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 studies the global Air Ultrasonic Imaging Detector production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Air Ultrasonic Imaging Detector 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 Air Ultrasonic Imaging Detector that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Air Ultrasonic Imaging Detector total production and demand, 2021-2032, (K Units)

Global Air Ultrasonic Imaging Detector total production value, 2021-2032, (USD Million)

Global Air Ultrasonic Imaging Detector production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Air Ultrasonic Imaging Detector consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Air Ultrasonic Imaging Detector domestic production, consumption, key domestic manufacturers and share

Global Air Ultrasonic Imaging Detector production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Air Ultrasonic Imaging Detector production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Air Ultrasonic Imaging Detector production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Air Ultrasonic Imaging Detector 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 Fluke Process Instruments, Br?el & Kj?r, Norsonic AS, SoundCam, Xi'an Lianfeng Xunsheng Information Technology Co., Ltd., Beijing Ensonic Tech Co., Ltd., Microflow 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Air Ultrasonic Imaging Detector 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 Air Ultrasonic Imaging Detector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Air Ultrasonic Imaging Detector Market, Segmentation by Type:

Sound Intensity Map

Leak Localization

Spectrum Analysis

Global Air Ultrasonic Imaging Detector Market, Segmentation by Hardware Form:

Handheld

Fixed Mount

Mobile Platform

Global Air Ultrasonic Imaging Detector Market, Segmentation by Signal Type:

Ultrasonic Detection

Broadband Acoustic Imaging

Microphone Array Imaging

Global Air Ultrasonic Imaging Detector Market, Segmentation by Application:

Oil & Gas

Chemical & Pharmaceutical

Energy & Power

Others

Companies Profiled:

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.

Senseven

Baker Hughes

Teledyne FLIR

Key Questions Answered:

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

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