

Global Ultrasonic Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G0B6AE8118EEN.html>

Date: May 2026

Pages: 175

Price: US\$ 3,480.00 (Single User License)

ID: G0B6AE8118EEN

Abstracts

According to our (Global Info Research) latest study, the global Ultrasonic Sensors market size was valued at US\$ 6585 million in 2025 and is forecast to a readjusted size of US\$ 12963 million by 2032 with a CAGR of 8.8% during review period.

An ultrasonic sensor is an electronic sensing device that uses ultrasonic waves (typically above 20 kHz) to detect objects, measure distance, or identify targets. The typical structure consists of an ultrasonic transducer, driving circuit, receiving and signal-processing circuit, and a protective housing. The transducer is usually made of piezoelectric ceramic or MEMS materials, and the device often appears in cylindrical or modular packaged forms with metal or engineering-plastic housings. The front side generally contains a diaphragm or mesh that transmits and receives acoustic waves. Some sensors operate with a single probe for both transmitting and receiving, while others use dual-probe configurations. The operating principle is based on the time-of-flight (ToF) method: the sensor emits ultrasonic pulses toward a target, and when the waves hit an object they are reflected back to the sensor. By measuring the travel time of the reflected waves and using the known speed of sound, the system calculates the distance to the object.

From a manufacturing perspective, ultrasonic sensors require technologies such as piezoelectric material fabrication, precision packaging, signal amplification and filtering, temperature compensation, electromagnetic interference suppression, and waterproof or dustproof structural design to ensure stable acoustic performance and long-term reliability. These products are mainly manufactured by semiconductor companies, automotive electronics suppliers, industrial automation sensor manufacturers, and MEMS sensor developers. Ultrasonic sensors can be categorized into distance-

measurement sensors, proximity sensors, level-measurement sensors, and imaging sensors. They are widely used in applications such as automotive parking assistance systems, industrial automation inspection, robotic obstacle avoidance and navigation, smart home devices, liquid level and flow monitoring, and certain medical diagnostic equipment.

From an industry analysis perspective, the ultrasonic sensor market is currently in a steady growth phase, with development opportunities primarily driven by the advancement of intelligent technologies and the expansion of digital transformation across multiple industries. First, in the automotive sector, the increasing adoption of advanced driver assistance systems (ADAS) and automated parking technologies has made ultrasonic sensors an essential component for short-range environmental perception. They are widely used in applications such as vehicle surrounding detection, parking assistance, and blind-spot monitoring. The continuous increase in automotive electronics content, along with the rapid development of electric and intelligent vehicles, is further expanding the application scale of these sensors. Second, in the field of industrial automation and smart manufacturing, the implementation of Industry 4.0 and the construction of smart factories are driving growing demand for precise detection, object positioning, and automated control. Ultrasonic sensors are widely used in production line inspection, warehouse logistics, and robotic systems due to their ability to detect transparent materials, liquids, and irregular surfaces. In addition, the proliferation of Internet of Things (IoT) devices has created new growth opportunities, including applications in smart home devices, intelligent waste management systems, and liquid level monitoring within smart city infrastructure. Meanwhile, advancements in MEMS technology are enabling ultrasonic sensors to become smaller, more power-efficient, and highly integrated, allowing them to be embedded in a wider range of consumer electronics and mobile devices. Overall, the convergence of automotive intelligence, industrial automation, and IoT expansion forms the core driving force behind the continued growth of the global ultrasonic sensor market. However, despite promising prospects, the ultrasonic sensor industry faces several challenges and potential risks. First, competition from alternative sensing technologies continues to intensify. Technologies such as millimeter-wave radar, LiDAR, and infrared sensors can provide higher precision or longer detection ranges in certain scenarios, potentially replacing ultrasonic sensors in applications such as autonomous driving and high-end industrial detection. Second, there are inherent technical limitations. Ultrasonic wave propagation can be affected by temperature, humidity, air pressure, and environmental noise, which may reduce measurement accuracy and require improved stability in complex environments. In addition, at the global supply chain level, the production of piezoelectric materials, MEMS fabrication processes, and semiconductor packaging can

be influenced by fluctuations in upstream material costs and geopolitical factors, which may lead to higher manufacturing costs or supply uncertainties. At the same time, intensified market competition is creating increasing price pressure, particularly in consumer electronics and low-end industrial applications where numerous small and medium-sized manufacturers have entered the market, resulting in product homogenization and shrinking profit margins. Furthermore, automotive and industrial customers are imposing stricter requirements for reliability, durability, and certification standards, such as automotive-grade AEC-Q certification and industrial protection ratings, which increase R&D and quality control costs for manufacturers. Therefore, maintaining competitiveness through technological innovation, cost control, and product differentiation will be crucial for companies seeking long-term success in this market. From the perspective of downstream demand trends, the application structure of ultrasonic sensors is undergoing significant changes, with growth expanding across multiple industries and scenarios. The automotive industry remains one of the largest application markets, but as autonomous driving technologies advance, ultrasonic sensors are increasingly integrated with cameras, millimeter-wave radars, and LiDAR in multi-sensor fusion systems to build comprehensive vehicle perception architectures. In the future, demand will likely focus on short-range precise sensing and low-cost redundant sensing solutions. Meanwhile, demand from the industrial automation sector is growing rapidly, particularly in intelligent warehousing, automated guided vehicles (AGVs), collaborative robots, and smart production lines, where ultrasonic sensors are used for object detection, distance measurement, and safety protection. The consumer electronics and smart home markets are also emerging as new growth areas. Applications such as robotic vacuum cleaners, smart water-level monitoring devices, intelligent trash bins, and touchless interaction equipment are driving the development of miniaturized and low-power ultrasonic modules. In addition, ultrasonic sensors are showing strong potential in emerging sectors such as environmental monitoring, agricultural automation, and medical equipment, including liquid level detection, irrigation system monitoring, and distance or flow measurement in medical ultrasonic diagnostic devices. Overall, future downstream demand will be characterized by stable growth in the automotive sector, rapid expansion in industrial automation, and continuous penetration of IoT applications, which will further promote technological innovation and diversified applications within the ultrasonic sensor market.

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

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

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

Global Ultrasonic Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/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 Ultrasonic Sensors

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 Ultrasonic Sensors 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 Siemens, Pepperl+Fuchs, Honeywell International, Baumer Holding, Rockwell Automation, Murata Manufacturing, KEYENCE Corporation, OMRON Corporation, SICK, Balluff, etc.

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

Market Segmentation

Ultrasonic Sensors 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

Ultrasonic Distance Sensors

Ultrasonic Level Sensors

Ultrasonic Motion Sensors

Others

Market segment by Transducer Technology

Piezoelectric Ultrasonic Sensors

MEMS Ultrasonic Sensors

Capacitive Micromachined Ultrasonic Transducers (CMUT) Sensors

Piezoelectric Micromachined Ultrasonic Transducers (PMUT) Sensors

Market segment by Physical Structure

Single-Head Ultrasonic Sensors

Dual-Head Ultrasonic Sensors

Market segment by Manufacturing Process

Ceramic Piezoelectric Ultrasonic Sensors

Silicon MEMS Ultrasonic Sensors

Thin-Film Ultrasonic Sensors

Hybrid Integrated Ultrasonic Sensors

Market segment by Application

Automotive

Industrial Automation

Healthcare

Agriculture

Consumer Electronics

Others

Major players covered

Siemens

Pepperl+Fuchs

Honeywell International

Baumer Holding

Rockwell Automation

Murata Manufacturing

KEYENCE Corporation

OMRON Corporation

SICK

Balluff

Banner Engineering

ifm electronic

Turck Holding

Robert Bosch

TDK Corporation

microsonic

MaxBotix

Massa Products Corporation

Airmar Technology Corporation

Audiowell Electronics

EGE-Elektronik Spezial-Sensoren

wenglor sensoric

Contrinex

Autonics

Datalogic

Festo

ABB

Endress+Hauser Group Services

VEGA Grieshaber

TE Connectivity

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 Ultrasonic Sensors product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Ultrasonic Sensors 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 Ultrasonic Sensors 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 Ultrasonic Sensors.

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

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