

Global Overfrequency Ultrasonic Transducer Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/GBBC3E85B2A5EN.html>

Date: September 2025

Pages: 138

Price: US\$ 3,132.00 (Single User License)

ID: GBBC3E85B2A5EN

Abstracts

According to our (Global Info Research) latest study, the global Overfrequency Ultrasonic Transducer market size was valued at US\$ 147 million in 2024 and is forecast to a readjusted size of USD 194 million by 2031 with a CAGR of 4.1% during review period.

An ultra-high frequency ultrasonic transducer is a device that uses the piezoelectric effect of materials to convert electrical energy into mechanical vibrations. When an electrical signal with a frequency equal to the natural oscillation frequency of the piezoelectric chip is applied to the electrode, the piezoelectric chip will resonate, vibrate and transmit ultrasonic energy in a fixed direction, thereby converting the electrical signal into an ultrasonic signal. Conversely, when the resonance disk receives ultrasonic waves, the piezoelectric chip is compressed and vibrates, thereby converting the sound wave signal into an electrical signal. An ultra-high frequency ultrasonic transducer is usually composed of a housing, a matching layer (i.e., an acoustic window), a piezoelectric ceramic disc transducer, a backing, and a lead-out cable. Among them, the piezoelectric ceramic disc transducer is the core component, responsible for converting electrical energy into mechanical energy.

This report is a detailed and comprehensive analysis for global Overfrequency Ultrasonic Transducer 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 Overfrequency Ultrasonic Transducer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

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

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

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

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 Overfrequency Ultrasonic Transducer 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 Misonix, CeramTec, NDT Systems, Krohn-Hite, Sonoscan, HCSonic, Olympus, Branson Ultrasonics, Physik Instrumente, Ultrasonic Systems, etc.

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

Market Segmentation

Overfrequency Ultrasonic Transducer 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

General

Broadband

Closed

Market segment by Application

Medical Industry

Industrial Automation

Military Field

Other

Major players covered

Misonix

CeramTec

NDT Systems

Krohn-Hite

Sonoscan

HCSonic

Olympus

Branson Ultrasonics

Physik Instrumente

Ultrasonic Systems

Sonic Power Corporation

Ningbo Luoshang Intelligent Technology

Hangzhou Chenggong Ultrasonic Equipment

Baoding Shangtai Ultrasonic Technology

Zhongshan Yizhen Electronic Technology

Suzhou Jiahui Ultrasonic Technology

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

Chapter 2, to profile the top manufacturers of Overfrequency Ultrasonic Transducer, with price, sales quantity, revenue, and global market share of Overfrequency Ultrasonic Transducer from 2020 to 2025.

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

Chapter 4, the Overfrequency Ultrasonic Transducer 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 Overfrequency Ultrasonic Transducer 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 Overfrequency Ultrasonic Transducer.

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

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