

Global Piezoelectric Hydrophone 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 Piezoelectric Hydrophone market size was valued at US\$ 209 million in 2025 and is forecast to a readjusted size of US\$ 299 million by 2032 with a CAGR of 5.0% during review period.

A piezoelectric hydrophone is an underwater acoustic sensor that utilizes the piezoelectric effect to convert pressure changes caused by sound waves in water into electrical signals, thereby receiving and measuring sound. It is a key device in underwater detection, communication, and navigation, and is mainly made of piezoelectric ceramic materials. It features high sensitivity, a wide frequency range, and good durability. The upstream industry primarily focuses on high-performance piezoelectric ceramic materials, single-crystal materials, and electronic components. The piezoelectric constants and temporal stability of these materials directly determine the sensitivity of the sensor.

Global annual sales are projected to reach several thousand units by 2025. Product pricing depends on factors such as frequency range, sensitivity, depth, and application scenarios, with prices ranging from \$500 to \$2000. The industry's gross profit margin is in the range of 30%-45%.

As global competition for marine resources intensifies, high-sensitivity, wide-bandwidth hydrophones with in-situ digital capabilities have become a core competitive advantage in the market. The industry focus is shifting from single sensor manufacturing to acoustic sensing system integration, particularly driven by MEMS piezoelectric technology. Miniaturized, low-power hydrophone arrays will gradually replace traditional, bulky sonar elements, becoming fundamental nodes in the deep-sea Internet of Things.

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

Global Piezoelectric Hydrophone 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 Piezoelectric Hydrophone 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 Piezoelectric Hydrophone 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 Piezoelectric Hydrophone

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 Piezoelectric Hydrophone 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 HBK, Teledyne Marine, Sensor Technology, Onda Corporation, Sercel, Neptune Sonar, benthowave, Geospace Technologies, Wilcoxon Sensing Technologies, Precision Acoustics, etc.

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

Market Segmentation

Piezoelectric Hydrophone 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

Scalar Hydrophone

Vector Hydrophone

Market segment by Materials

Piezoelectric Ceramic Hydrophone

Piezoelectric Single-Crystal Hydrophone

Piezoelectric Polymer Hydrophone

Market segment by Frequency

Low Frequency/Ultra-Low Frequency

Medium Frequency

High Frequency

Market segment by Application

Underwater Communication

Underwater Navigation

Ocean Exploration

Perimeter Security

Others

Major players covered

HBK

Teledyne Marine

Sensor Technology

Onda Corporation

Sercel

Neptune Sonar

benthowave

Geospace Technologies

Wilcoxon Sensing Technologies

Precision Acoustics

Qingdao Haiyan Electronics

Changsha Listen-Technology

CSSC 715 Research Institute

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 Piezoelectric Hydrophone product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Piezoelectric Hydrophone 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 Piezoelectric Hydrophone 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 Piezoelectric Hydrophone.

Chapter 14 and 15, to describe Piezoelectric Hydrophone sales channel, distributors, customers, research findings and conclusion.

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