

Global Membrane Hydrophones Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Membrane Hydrophones market size is expected to reach \$ 58.85 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032). A membrane hydrophone is a sensor that detects underwater sound waves using the principle of membrane vibration. It consists of a very thin membrane; sound waves act on the membrane, causing it to vibrate and converting the sound energy into an electrical signal. It is particularly suitable for high-frequency and broadband sound pressure measurements. The core upstream technology lies in high-performance acoustic functional materials, primarily including high-tension polymer films with acoustic impedance similar to water (such as PVDF, PVDF-TrFE, and their copolymers) and precision vapor-deposited electrode materials (such as gold, chromium, or nickel-aluminum alloys). In 2025, global sales are projected to be approximately 33,973 units, with an average market price of approximately US\$1,198 per unit. The industry's gross profit margin is expected to be in the range of 25%-45%.

The upgraded global safety regulations for medical ultrasound devices require medical device manufacturers to perform more precise nonlinear acoustic field measurements of equipment output, directly increasing the demand for membrane hydrophones. Artificial intelligence-driven acoustic signal processing technology has improved the efficiency of extracting weak signals from membrane hydrophones, broadening their application in dynamic environmental monitoring. Despite their excellent performance, the industry still faces significant limitations: the fragility and environmental stability of the thin film remain the biggest challenges.

This report studies the global Membrane Hydrophones production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Membrane Hydrophones 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 Membrane Hydrophones that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Membrane Hydrophones total production and demand, 2021-2032, (K Units)

Global Membrane Hydrophones total production value, 2021-2032, (USD Million)

Global Membrane Hydrophones production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Membrane Hydrophones consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Membrane Hydrophones domestic production, consumption, key domestic manufacturers and share

Global Membrane Hydrophones production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Membrane Hydrophones production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Membrane Hydrophones production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Membrane Hydrophones 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 Precision Acoustics, Onda Corporation, Acertara, GAMPT, 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 Membrane Hydrophones 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 Membrane Hydrophones Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Membrane Hydrophones Market, Segmentation by Type:

Differential Membrane Hydrophones

Co-planar Membrane Hydrophones

Global Membrane Hydrophones Market, Segmentation by Membrane Diameter:

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