

Global Ultrasonic Fish Deterrent Transducer 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 Ultrasonic Fish Deterrent Transducer market size was valued at US\$ 87.46 million in 2025 and is forecast to a readjusted size of US\$ 138 million by 2032 with a CAGR of 6.7% during review period.

In 2025, the global annual production capacity of ultrasonic fish deterrent transducers was approximately 37,800 units, while actual production reached about 26,562 units. The global average market price was approximately US\$3,200 per unit, and the gross profit margin of major manufacturers ranged from 38% to 58%. An ultrasonic fish deterrent transducer is a specialized acoustic device that converts electrical signals into high-frequency ultrasonic waves to repel or guide fish away from protected zones. By emitting species-sensitive ultrasonic frequencies, these transducers influence fish behavior without causing physical harm, making them widely used in hydropower intake protection, water diversion projects, aquaculture facilities, and ecological conservation systems.

Upstream of the ultrasonic fish deterrent transducer industry includes piezoelectric ceramics and single-crystal materials, rare-earth elements, corrosion-resistant metal housings, waterproof encapsulation compounds, power electronics, and marine-grade cables. Midstream manufacturers are responsible for acoustic structure design, ultrasonic frequency tuning, encapsulation, calibration, and environmental reliability testing, with production concentrated mainly in China, Japan, and parts of Europe. Downstream applications include hydropower stations, irrigation and water diversion facilities, aquaculture protection systems, marine engineering projects, and ecological restoration initiatives. End users focus on ultrasonic output efficiency, frequency stability

across water conditions, long-term underwater durability, energy consumption, and compliance with environmental protection standards.

The ultrasonic fish deterrent transducer market is driven by increasing ecological protection requirements and stricter regulations governing water infrastructure and hydropower projects. Compared with low-frequency acoustic deterrents, ultrasonic systems offer higher directionality and species-specific effectiveness, making them attractive for sensitive environments. Demand is growing steadily in hydropower retrofitting, aquaculture protection, and environmentally compliant water management projects. Technological development focuses on adaptive frequency modulation, intelligent control integration, and extended service life in harsh underwater conditions. Overall, the market shows moderate but stable growth, supported by environmental policy incentives and expanding water resource management investments.

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

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

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

Global Ultrasonic Fish Deterrent Transducer market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Ultrasonic Fish Deterrent 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 Ultrasonic Fish Deterrent 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 Piezo Hannas, Arat Marine, Fish Guidance Systems Ltd., Smith-Root, Ace Aquatec Ltd., HTI – Hydroacoustic Technology, Inc., Fishtek Marine, Innovasea Systems, Ocean Sonics, BioSonics, etc.

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

Market Segmentation

Ultrasonic Fish Deterrent Transducer 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

Low-frequency 20 kHz

Market segment by Waveform Mode

Continuous-wave

Pulsed Sweep-tone

Market segment by Application

Hydropower Station Intake

Water Diversion Project

Aquaculture

Ecological Protection System

Major players covered

Piezo Hannas

Arat Marine

Fish Guidance Systems Ltd.

Smith-Root

Ace Aquatec Ltd.

HTI – Hydroacoustic Technology, Inc.

Fishtek Marine

Innovasea Systems

Ocean Sonics

BioSonics

Fuzhou Dayu Electronics Co., Ltd.

Hangzhou Liyu Ultrasonic Co., Ltd.

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 Fish Deterrent Transducer product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Ultrasonic Fish Deterrent Transducer 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 Fish Deterrent Transducer 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 Fish Deterrent Transducer.

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

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