

Global Ultrasonic Fish Deterrent Transducer Market Growth 2026-2032

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Abstracts

The global Ultrasonic Fish Deterrent Transducer market size is predicted to grow from US\$ 83.15 million in 2025 to US\$ 135 million in 2032; it is expected to grow at a CAGR of 7.2% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the “Ultrasonic Fish Deterrent Transducer Industry Forecast” looks at past sales and reviews total world Ultrasonic Fish Deterrent Transducer sales in 2025, providing a comprehensive analysis by region and market sector of projected Ultrasonic Fish Deterrent Transducer sales for 2026 through 2032. With Ultrasonic Fish Deterrent Transducer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ultrasonic Fish Deterrent Transducer industry.

This Insight Report provides a comprehensive analysis of the global Ultrasonic Fish Deterrent Transducer landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Ultrasonic Fish Deterrent Transducer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ultrasonic Fish Deterrent Transducer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ultrasonic Fish Deterrent Transducer and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ultrasonic Fish Deterrent Transducer.

This report presents a comprehensive overview, market shares, and growth opportunities of Ultrasonic Fish Deterrent Transducer market by product type,

application, key manufacturers and key regions and countries.

Segmentation by Type:

Low-frequency 20 kHz

Segmentation by Waveform Mode:

Continuous-wave

Pulsed Sweep-tone

Segmentation by Application:

Hydropower Station Intake

Water Diversion Project

Aquaculture

Ecological Protection System

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its

market penetration.

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.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ultrasonic Fish Deterrent Transducer market?

What factors are driving Ultrasonic Fish Deterrent Transducer market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Ultrasonic Fish Deterrent Transducer market opportunities vary by end market size?

How does Ultrasonic Fish Deterrent Transducer break out by Type, by Application?

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