

Global Fish Identification and Monitoring System 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 Fish Identification and Monitoring System market size was valued at US\$ 821 million in 2025 and is forecast to a readjusted size of US\$ 2545 million by 2032 with a CAGR of 17.5% during review period.

Fish identification and monitoring systems utilize computer vision, artificial intelligence, and underwater sensing technology to automatically identify, track, count, and analyze the behavior of fish in aquatic environments. These systems are widely used in fisheries management, ecological monitoring, and scientific research.

Fish identification and monitoring systems collect underwater signals using underwater cameras, sonar, and sensors. They then use deep learning models to automatically extract fish targets, identify species, count fish, estimate body length, track swimming trajectories, and store data, providing early warnings and reports. This replaces manual observation and enables non-invasive, low-disturbance, continuous, and intelligent monitoring of fish resources and behavior.

The main functions of fish identification and monitoring systems include automatic fish species identification, real-time fish population statistics, fish movement tracking, fish behavior monitoring, data recording and analysis, and ecological environment assessment.

In 2025, global sales of fish identification and monitoring systems reached 55,000 units, with a production capacity of approximately 90,000 units. The average selling price was US\$14,500 per unit, and the average gross profit margin was 40%-50%.

The upstream core components of a fish identification and monitoring system include image sensors, transducers, signal processing chips, AI chips, communication modules, waterproof housings, seals, anti-corrosion coatings, and anti-biofouling materials. Downstream applications primarily include aquaculture, ecological and resource monitoring, and scientific research.

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

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

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

Global Fish Identification and Monitoring System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Fish Identification and Monitoring System

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 Fish Identification and Monitoring System 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 Aquabyte, Deep Trekker, Innovasea, Kongsberg, XpertSea, VAKI, Echoview Software, Simsonar, Riverwatcher, Scantrol Deep Vision, etc.

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

Market Segmentation

Fish Identification and Monitoring System 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

On-Premise

Cloud-Based

Market segment by Recognition Technologies

Image/Video Recognition

Acoustic Recognition

Multi-sensor Fusion

Market segment by Deployment Methods

Fixed

Mobile

Semi-Fixed

Market segment by Application

Aquaculture

Ecological Monitoring

Fishery Resource Management

Scientific Research

Major players covered

Aquabyte

Deep Trekker

Innovasea

Kongsberg

XpertSea

VAKI

Echoview Software

Simsonar

Riverwatcher

Scantrol Deep Vision

Biomark

Kuaitong Technology

Hikvision

Dahua

China Water Resources

CST T-SEA

Keda

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 Fish Identification and Monitoring System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fish Identification and Monitoring System, with price, sales quantity, revenue, and global market share of Fish Identification and

Monitoring System from 2021 to 2026.

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

Chapter 4, the Fish Identification and Monitoring System 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 Fish Identification and Monitoring System 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 Fish Identification and Monitoring System.

Chapter 14 and 15, to describe Fish Identification and Monitoring System sales channel, distributors, customers, research findings and conclusion.

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