

Global Fish Identification and Monitoring System Market Growth 2026-2032

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Abstracts

The global Fish Identification and Monitoring System market size is predicted to grow from US\$ 780 million in 2025 to US\$ 2558 million in 2032; it is expected to grow at a CAGR of 18.6% from 2026 to 2032.

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.

United States market for Fish Identification and Monitoring System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Fish Identification and Monitoring System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Fish Identification and Monitoring System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Fish Identification and Monitoring System players cover Aquabyte, Deep Trekker, Innovasea, Kongsberg, XpertSea, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Fish Identification and Monitoring System 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 Fish Identification and Monitoring System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Fish Identification and Monitoring System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Fish Identification and Monitoring System 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 Fish Identification and Monitoring System.

This report presents a comprehensive overview, market shares, and growth opportunities of Fish Identification and Monitoring System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

On-Premise

Cloud-Based

Segmentation by Recognition Technologies:

Image/Video Recognition

Acoustic Recognition

Multi-sensor Fusion

Segmentation by Deployment Methods:

Fixed

Mobile

Semi-Fixed

Segmentation by Application:

Aquaculture

Ecological Monitoring

Fishery Resource Management

Scientific Research

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.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Fish Identification and Monitoring System market?

What factors are driving Fish Identification and Monitoring System market growth, globally and by region?

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

How do Fish Identification and Monitoring System market opportunities vary by end market size?

How does Fish Identification and Monitoring System break out by Type, by Application?

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