

Global Fish Identification and Monitoring System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fish Identification and Monitoring System market size is expected to reach \$ 2545 million by 2032, rising at a market growth of 17.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global Fish Identification and Monitoring System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fish Identification and Monitoring System 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 Fish Identification and Monitoring System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fish Identification and Monitoring System total production and demand, 2021-2032, (Units)

Global Fish Identification and Monitoring System total production value, 2021-2032, (USD Million)

Global Fish Identification and Monitoring System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Fish Identification and Monitoring System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Fish Identification and Monitoring System domestic production, consumption, key domestic manufacturers and share

Global Fish Identification and Monitoring System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Fish Identification and Monitoring System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Fish Identification and Monitoring System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Fish Identification and Monitoring System 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Fish Identification and Monitoring System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Fish Identification and Monitoring System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fish Identification and Monitoring System Market, Segmentation by Type:

On-Premise

Cloud-Based

Global Fish Identification and Monitoring System Market, Segmentation by Recognition Technologies:

Image/Video Recognition

Acoustic Recognition

Multi-sensor Fusion

Global Fish Identification and Monitoring System Market, Segmentation by Deployment Methods:

Fixed

Mobile

Semi-Fixed

Global Fish Identification and Monitoring System Market, Segmentation by Application:

Aquaculture

Ecological Monitoring

Fishery Resource Management

Scientific Research

Companies Profiled:

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 Answered:

1. How big is the global Fish Identification and Monitoring System market?
2. What is the demand of the global Fish Identification and Monitoring System market?
3. What is the year over year growth of the global Fish Identification and Monitoring System market?
4. What is the production and production value of the global Fish Identification and Monitoring System market?

5. Who are the key producers in the global Fish Identification and Monitoring System market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Fish Identification and Monitoring System Introduction
- 1.2 World Fish Identification and Monitoring System Supply & Forecast
 - 1.2.1 World Fish Identification and Monitoring System Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Fish Identification and Monitoring System Production (2021-2032)
 - 1.2.3 World Fish Identification and Monitoring System Pricing Trends (2021-2032)
- 1.3 World Fish Identification and Monitoring System Production by Region (Based on Production Site)
 - 1.3.1 World Fish Identification and Monitoring System Production Value by Region (2021-2032)
 - 1.3.2 World Fish Identification and Monitoring System Production by Region (2021-2032)
 - 1.3.3 World Fish Identification and Monitoring System Average Price by Region (2021-2032)
 - 1.3.4 North America Fish Identification and Monitoring System Production (2021-2032)
 - 1.3.5 Europe Fish Identification and Monitoring System Production (2021-2032)
 - 1.3.6 China Fish Identification and Monitoring System Production (2021-2032)
 - 1.3.7 Japan Fish Identification and Monitoring System Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Fish Identification and Monitoring System Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Fish Identification and Monitoring System Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Fish Identification and Monitoring System Demand (2021-2032)
- 2.2 World Fish Identification and Monitoring System Consumption by Region
 - 2.2.1 World Fish Identification and Monitoring System Consumption by Region (2021-2026)
 - 2.2.2 World Fish Identification and Monitoring System Consumption Forecast by Region (2027-2032)
- 2.3 United States Fish Identification and Monitoring System Consumption (2021-2032)
- 2.4 China Fish Identification and Monitoring System Consumption (2021-2032)
- 2.5 Europe Fish Identification and Monitoring System Consumption (2021-2032)
- 2.6 Japan Fish Identification and Monitoring System Consumption (2021-2032)

- 2.7 South Korea Fish Identification and Monitoring System Consumption (2021-2032)
- 2.8 ASEAN Fish Identification and Monitoring System Consumption (2021-2032)
- 2.9 India Fish Identification and Monitoring System Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Fish Identification and Monitoring System Production Value by Manufacturer (2021-2026)
- 3.2 World Fish Identification and Monitoring System Production by Manufacturer (2021-2026)
- 3.3 World Fish Identification and Monitoring System Average Price by Manufacturer (2021-2026)
- 3.4 Fish Identification and Monitoring System Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Fish Identification and Monitoring System Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Fish Identification and Monitoring System in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Fish Identification and Monitoring System in 2025
- 3.6 Fish Identification and Monitoring System Market: Overall Company Footprint Analysis
 - 3.6.1 Fish Identification and Monitoring System Market: Region Footprint
 - 3.6.2 Fish Identification and Monitoring System Market: Company Product Type Footprint
 - 3.6.3 Fish Identification and Monitoring System Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Fish Identification and Monitoring System Production Value Comparison
 - 4.1.1 United States VS China: Fish Identification and Monitoring System Production

Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Fish Identification and Monitoring System Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Fish Identification and Monitoring System Production Comparison

4.2.1 United States VS China: Fish Identification and Monitoring System Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Fish Identification and Monitoring System Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Fish Identification and Monitoring System Consumption Comparison

4.3.1 United States VS China: Fish Identification and Monitoring System Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Fish Identification and Monitoring System Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Fish Identification and Monitoring System Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Fish Identification and Monitoring System Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Fish Identification and Monitoring System Production Value (2021-2026)

4.4.3 United States Based Manufacturers Fish Identification and Monitoring System Production (2021-2026)

4.5 China Based Fish Identification and Monitoring System Manufacturers and Market Share

4.5.1 China Based Fish Identification and Monitoring System Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Fish Identification and Monitoring System Production Value (2021-2026)

4.5.3 China Based Manufacturers Fish Identification and Monitoring System Production (2021-2026)

4.6 Rest of World Based Fish Identification and Monitoring System Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Fish Identification and Monitoring System Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Fish Identification and Monitoring System Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Fish Identification and Monitoring System Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Fish Identification and Monitoring System Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 On-Premise

5.2.2 Cloud-Based

5.3 Market Segment by Type

5.3.1 World Fish Identification and Monitoring System Production by Type (2021-2032)

5.3.2 World Fish Identification and Monitoring System Production Value by Type (2021-2032)

5.3.3 World Fish Identification and Monitoring System Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY RECOGNITION TECHNOLOGIES

6.1 World Fish Identification and Monitoring System Market Size Overview by Recognition Technologies: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Recognition Technologies

6.2.1 Image/Video Recognition

6.2.2 Acoustic Recognition

6.2.3 Multi-sensor Fusion

6.3 Market Segment by Recognition Technologies

6.3.1 World Fish Identification and Monitoring System Production by Recognition Technologies (2021-2032)

6.3.2 World Fish Identification and Monitoring System Production Value by Recognition Technologies (2021-2032)

6.3.3 World Fish Identification and Monitoring System Average Price by Recognition Technologies (2021-2032)

7 MARKET ANALYSIS BY DEPLOYMENT METHODS

7.1 World Fish Identification and Monitoring System Market Size Overview by Deployment Methods: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Deployment Methods

7.2.1 Fixed

7.2.2 Mobile

7.2.3 Semi-Fixed

7.3 Market Segment by Deployment Methods

7.3.1 World Fish Identification and Monitoring System Production by Deployment Methods (2021-2032)

7.3.2 World Fish Identification and Monitoring System Production Value by Deployment Methods (2021-2032)

7.3.3 World Fish Identification and Monitoring System Average Price by Deployment Methods (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Fish Identification and Monitoring System Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Aquaculture

8.2.2 Ecological Monitoring

8.2.3 Fishery Resource Management

8.2.4 Scientific Research

8.3 Market Segment by Application

8.3.1 World Fish Identification and Monitoring System Production by Application (2021-2032)

8.3.2 World Fish Identification and Monitoring System Production Value by Application (2021-2032)

8.3.3 World Fish Identification and Monitoring System Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Aquabyte

9.1.1 Aquabyte Details

9.1.2 Aquabyte Major Business

9.1.3 Aquabyte Fish Identification and Monitoring System Product and Services

9.1.4 Aquabyte Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Aquabyte Recent Developments/Updates

9.1.6 Aquabyte Competitive Strengths & Weaknesses

9.2 Deep Trekker

9.2.1 Deep Trekker Details

9.2.2 Deep Trekker Major Business

9.2.3 Deep Trekker Fish Identification and Monitoring System Product and Services

9.2.4 Deep Trekker Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Deep Trekker Recent Developments/Updates

9.2.6 Deep Trekker Competitive Strengths & Weaknesses

9.3 Innovasea

9.3.1 Innovasea Details

9.3.2 Innovasea Major Business

9.3.3 Innovasea Fish Identification and Monitoring System Product and Services

9.3.4 Innovasea Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Innovasea Recent Developments/Updates

9.3.6 Innovasea Competitive Strengths & Weaknesses

9.4 Kongsberg

9.4.1 Kongsberg Details

9.4.2 Kongsberg Major Business

9.4.3 Kongsberg Fish Identification and Monitoring System Product and Services

9.4.4 Kongsberg Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Kongsberg Recent Developments/Updates

9.4.6 Kongsberg Competitive Strengths & Weaknesses

9.5 XpertSea

9.5.1 XpertSea Details

9.5.2 XpertSea Major Business

9.5.3 XpertSea Fish Identification and Monitoring System Product and Services

9.5.4 XpertSea Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 XpertSea Recent Developments/Updates

9.5.6 XpertSea Competitive Strengths & Weaknesses

9.6 VAKI

9.6.1 VAKI Details

9.6.2 VAKI Major Business

9.6.3 VAKI Fish Identification and Monitoring System Product and Services

9.6.4 VAKI Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 VAKI Recent Developments/Updates

9.6.6 VAKI Competitive Strengths & Weaknesses

9.7 Echoview Software

9.7.1 Echoview Software Details

9.7.2 Echoview Software Major Business

9.7.3 Echoview Software Fish Identification and Monitoring System Product and Services

9.7.4 Echoview Software Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Echoview Software Recent Developments/Updates

9.7.6 Echoview Software Competitive Strengths & Weaknesses

9.8 Simsonar

9.8.1 Simsonar Details

9.8.2 Simsonar Major Business

9.8.3 Simsonar Fish Identification and Monitoring System Product and Services

9.8.4 Simsonar Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Simsonar Recent Developments/Updates

9.8.6 Simsonar Competitive Strengths & Weaknesses

9.9 Riverwatcher

9.9.1 Riverwatcher Details

9.9.2 Riverwatcher Major Business

9.9.3 Riverwatcher Fish Identification and Monitoring System Product and Services

9.9.4 Riverwatcher Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Riverwatcher Recent Developments/Updates

9.9.6 Riverwatcher Competitive Strengths & Weaknesses

9.10 Scantrol Deep Vision

9.10.1 Scantrol Deep Vision Details

9.10.2 Scantrol Deep Vision Major Business

9.10.3 Scantrol Deep Vision Fish Identification and Monitoring System Product and Services

9.10.4 Scantrol Deep Vision Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Scantrol Deep Vision Recent Developments/Updates

9.10.6 Scantrol Deep Vision Competitive Strengths & Weaknesses

9.11 Biomark

9.11.1 Biomark Details

9.11.2 Biomark Major Business

9.11.3 Biomark Fish Identification and Monitoring System Product and Services

9.11.4 Biomark Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Biomark Recent Developments/Updates

9.11.6 Biomark Competitive Strengths & Weaknesses

9.12 Kwaitong Technology

9.12.1 Kwaitong Technology Details

9.12.2 Kwaitong Technology Major Business

9.12.3 Kwaitong Technology Fish Identification and Monitoring System Product and Services

9.12.4 Kwaitong Technology Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Kwaitong Technology Recent Developments/Updates

9.12.6 Kwaitong Technology Competitive Strengths & Weaknesses

9.13 Hikvision

9.13.1 Hikvision Details

9.13.2 Hikvision Major Business

9.13.3 Hikvision Fish Identification and Monitoring System Product and Services

9.13.4 Hikvision Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Hikvision Recent Developments/Updates

9.13.6 Hikvision Competitive Strengths & Weaknesses

9.14 Dahua

9.14.1 Dahua Details

9.14.2 Dahua Major Business

9.14.3 Dahua Fish Identification and Monitoring System Product and Services

9.14.4 Dahua Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Dahua Recent Developments/Updates

9.14.6 Dahua Competitive Strengths & Weaknesses

9.15 China Water Resources

9.15.1 China Water Resources Details

9.15.2 China Water Resources Major Business

9.15.3 China Water Resources Fish Identification and Monitoring System Product and Services

9.15.4 China Water Resources Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 China Water Resources Recent Developments/Updates

9.15.6 China Water Resources Competitive Strengths & Weaknesses

9.16 CST T-SEA

9.16.1 CST T-SEA Details

9.16.2 CST T-SEA Major Business

9.16.3 CST T-SEA Fish Identification and Monitoring System Product and Services

9.16.4 CST T-SEA Fish Identification and Monitoring System Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.16.5 CST T-SEA Recent Developments/Updates

9.16.6 CST T-SEA Competitive Strengths & Weaknesses

9.17 Keda

9.17.1 Keda Details

9.17.2 Keda Major Business

9.17.3 Keda Fish Identification and Monitoring System Product and Services

9.17.4 Keda Fish Identification and Monitoring System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Keda Recent Developments/Updates

9.17.6 Keda Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Fish Identification and Monitoring System Industry Chain

10.2 Fish Identification and Monitoring System Upstream Analysis

10.2.1 Fish Identification and Monitoring System Core Raw Materials

10.2.2 Main Manufacturers of Fish Identification and Monitoring System Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Fish Identification and Monitoring System Production Mode

10.6 Fish Identification and Monitoring System Procurement Model

10.7 Fish Identification and Monitoring System Industry Sales Model and Sales Channels

10.7.1 Fish Identification and Monitoring System Sales Model

10.7.2 Fish Identification and Monitoring System Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Fish Identification and Monitoring System Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Fish Identification and Monitoring System Production Value by Region (2021-2026) & (USD Million)

Table 3. World Fish Identification and Monitoring System Production Value by Region (2027-2032) & (USD Million)

Table 4. World Fish Identification and Monitoring System Production Value Market Share by Region (2021-2026)

Table 5. World Fish Identification and Monitoring System Production Value Market Share by Region (2027-2032)

Table 6. World Fish Identification and Monitoring System Production by Region (2021-2026) & (Units)

Table 7. World Fish Identification and Monitoring System Production by Region (2027-2032) & (Units)

Table 8. World Fish Identification and Monitoring System Production Market Share by Region (2021-2026)

Table 9. World Fish Identification and Monitoring System Production Market Share by Region (2027-2032)

Table 10. World Fish Identification and Monitoring System Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Fish Identification and Monitoring System Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Fish Identification and Monitoring System Major Market Trends

Table 13. World Fish Identification and Monitoring System Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Fish Identification and Monitoring System Consumption by Region (2021-2026) & (Units)

Table 15. World Fish Identification and Monitoring System Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Fish Identification and Monitoring System Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Fish Identification and Monitoring System Producers in 2025

Table 18. World Fish Identification and Monitoring System Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Fish Identification and Monitoring System Producers in 2025

Table 20. World Fish Identification and Monitoring System Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Fish Identification and Monitoring System Company Evaluation Quadrant

Table 22. World Fish Identification and Monitoring System Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Fish Identification and Monitoring System Production Site of Key Manufacturer

Table 24. Fish Identification and Monitoring System Market: Company Product Type Footprint

Table 25. Fish Identification and Monitoring System Market: Company Product Application Footprint

Table 26. Fish Identification and Monitoring System Competitive Factors

Table 27. Fish Identification and Monitoring System New Entrant and Capacity Expansion Plans

Table 28. Fish Identification and Monitoring System Mergers & Acquisitions Activity

Table 29. United States VS China Fish Identification and Monitoring System Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Fish Identification and Monitoring System Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Fish Identification and Monitoring System Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Fish Identification and Monitoring System Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Fish Identification and Monitoring System Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Fish Identification and Monitoring System Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Fish Identification and Monitoring System Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Fish Identification and Monitoring System Production Market Share (2021-2026)

Table 37. China Based Fish Identification and Monitoring System Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Fish Identification and Monitoring System Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Fish Identification and Monitoring System

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Fish Identification and Monitoring System Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Fish Identification and Monitoring System Production Market Share (2021-2026)

Table 42. Rest of World Based Fish Identification and Monitoring System Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Fish Identification and Monitoring System Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Fish Identification and Monitoring System Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Fish Identification and Monitoring System Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Fish Identification and Monitoring System Production Market Share (2021-2026)

Table 47. World Fish Identification and Monitoring System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Fish Identification and Monitoring System Production by Type (2021-2026) & (Units)

Table 49. World Fish Identification and Monitoring System Production by Type (2027-2032) & (Units)

Table 50. World Fish Identification and Monitoring System Production Value by Type (2021-2026) & (USD Million)

Table 51. World Fish Identification and Monitoring System Production Value by Type (2027-2032) & (USD Million)

Table 52. World Fish Identification and Monitoring System Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Fish Identification and Monitoring System Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Fish Identification and Monitoring System Production Value by Recognition Technologies, (USD Million), 2021 & 2025 & 2032

Table 55. World Fish Identification and Monitoring System Production by Recognition Technologies (2021-2026) & (Units)

Table 56. World Fish Identification and Monitoring System Production by Recognition Technologies (2027-2032) & (Units)

Table 57. World Fish Identification and Monitoring System Production Value by Recognition Technologies (2021-2026) & (USD Million)

Table 58. World Fish Identification and Monitoring System Production Value by Recognition Technologies (2027-2032) & (USD Million)

- Table 59. World Fish Identification and Monitoring System Average Price by Recognition Technologies (2021-2026) & (K US\$/Unit)
- Table 60. World Fish Identification and Monitoring System Average Price by Recognition Technologies (2027-2032) & (K US\$/Unit)
- Table 61. World Fish Identification and Monitoring System Production Value by Deployment Methods, (USD Million), 2021 & 2025 & 2032
- Table 62. World Fish Identification and Monitoring System Production by Deployment Methods (2021-2026) & (Units)
- Table 63. World Fish Identification and Monitoring System Production by Deployment Methods (2027-2032) & (Units)
- Table 64. World Fish Identification and Monitoring System Production Value by Deployment Methods (2021-2026) & (USD Million)
- Table 65. World Fish Identification and Monitoring System Production Value by Deployment Methods (2027-2032) & (USD Million)
- Table 66. World Fish Identification and Monitoring System Average Price by Deployment Methods (2021-2026) & (K US\$/Unit)
- Table 67. World Fish Identification and Monitoring System Average Price by Deployment Methods (2027-2032) & (K US\$/Unit)
- Table 68. World Fish Identification and Monitoring System Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Fish Identification and Monitoring System Production by Application (2021-2026) & (Units)
- Table 70. World Fish Identification and Monitoring System Production by Application (2027-2032) & (Units)
- Table 71. World Fish Identification and Monitoring System Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Fish Identification and Monitoring System Production Value by Application (2027-2032) & (USD Million)
- Table 73. World Fish Identification and Monitoring System Average Price by Application (2021-2026) & (K US\$/Unit)
- Table 74. World Fish Identification and Monitoring System Average Price by Application (2027-2032) & (K US\$/Unit)
- Table 75. Aquabyte Basic Information, Manufacturing Base and Competitors
- Table 76. Aquabyte Major Business
- Table 77. Aquabyte Fish Identification and Monitoring System Product and Services
- Table 78. Aquabyte Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. Aquabyte Recent Developments/Updates

- Table 80. Aquabyte Competitive Strengths & Weaknesses
- Table 81. Deep Trekker Basic Information, Manufacturing Base and Competitors
- Table 82. Deep Trekker Major Business
- Table 83. Deep Trekker Fish Identification and Monitoring System Product and Services
- Table 84. Deep Trekker Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Deep Trekker Recent Developments/Updates
- Table 86. Deep Trekker Competitive Strengths & Weaknesses
- Table 87. Innovasea Basic Information, Manufacturing Base and Competitors
- Table 88. Innovasea Major Business
- Table 89. Innovasea Fish Identification and Monitoring System Product and Services
- Table 90. Innovasea Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Innovasea Recent Developments/Updates
- Table 92. Innovasea Competitive Strengths & Weaknesses
- Table 93. Kongsberg Basic Information, Manufacturing Base and Competitors
- Table 94. Kongsberg Major Business
- Table 95. Kongsberg Fish Identification and Monitoring System Product and Services
- Table 96. Kongsberg Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Kongsberg Recent Developments/Updates
- Table 98. Kongsberg Competitive Strengths & Weaknesses
- Table 99. XpertSea Basic Information, Manufacturing Base and Competitors
- Table 100. XpertSea Major Business
- Table 101. XpertSea Fish Identification and Monitoring System Product and Services
- Table 102. XpertSea Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. XpertSea Recent Developments/Updates
- Table 104. XpertSea Competitive Strengths & Weaknesses
- Table 105. VAKI Basic Information, Manufacturing Base and Competitors
- Table 106. VAKI Major Business
- Table 107. VAKI Fish Identification and Monitoring System Product and Services
- Table 108. VAKI Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. VAKI Recent Developments/Updates

Table 110. VAKI Competitive Strengths & Weaknesses

Table 111. Echoview Software Basic Information, Manufacturing Base and Competitors

Table 112. Echoview Software Major Business

Table 113. Echoview Software Fish Identification and Monitoring System Product and Services

Table 114. Echoview Software Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Echoview Software Recent Developments/Updates

Table 116. Echoview Software Competitive Strengths & Weaknesses

Table 117. Simsonar Basic Information, Manufacturing Base and Competitors

Table 118. Simsonar Major Business

Table 119. Simsonar Fish Identification and Monitoring System Product and Services

Table 120. Simsonar Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Simsonar Recent Developments/Updates

Table 122. Simsonar Competitive Strengths & Weaknesses

Table 123. Riverwatcher Basic Information, Manufacturing Base and Competitors

Table 124. Riverwatcher Major Business

Table 125. Riverwatcher Fish Identification and Monitoring System Product and Services

Table 126. Riverwatcher Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Riverwatcher Recent Developments/Updates

Table 128. Riverwatcher Competitive Strengths & Weaknesses

Table 129. Scantrol Deep Vision Basic Information, Manufacturing Base and Competitors

Table 130. Scantrol Deep Vision Major Business

Table 131. Scantrol Deep Vision Fish Identification and Monitoring System Product and Services

Table 132. Scantrol Deep Vision Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Scantrol Deep Vision Recent Developments/Updates

Table 134. Scantrol Deep Vision Competitive Strengths & Weaknesses

Table 135. Biomark Basic Information, Manufacturing Base and Competitors

Table 136. Biomark Major Business

Table 137. Biomark Fish Identification and Monitoring System Product and Services

Table 138. Biomark Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Biomark Recent Developments/Updates

Table 140. Biomark Competitive Strengths & Weaknesses

Table 141. Kwaitong Technology Basic Information, Manufacturing Base and Competitors

Table 142. Kwaitong Technology Major Business

Table 143. Kwaitong Technology Fish Identification and Monitoring System Product and Services

Table 144. Kwaitong Technology Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Kwaitong Technology Recent Developments/Updates

Table 146. Kwaitong Technology Competitive Strengths & Weaknesses

Table 147. Hikvision Basic Information, Manufacturing Base and Competitors

Table 148. Hikvision Major Business

Table 149. Hikvision Fish Identification and Monitoring System Product and Services

Table 150. Hikvision Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Hikvision Recent Developments/Updates

Table 152. Hikvision Competitive Strengths & Weaknesses

Table 153. Dahua Basic Information, Manufacturing Base and Competitors

Table 154. Dahua Major Business

Table 155. Dahua Fish Identification and Monitoring System Product and Services

Table 156. Dahua Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Dahua Recent Developments/Updates

Table 158. Dahua Competitive Strengths & Weaknesses

Table 159. China Water Resources Basic Information, Manufacturing Base and Competitors

Table 160. China Water Resources Major Business

Table 161. China Water Resources Fish Identification and Monitoring System Product and Services

Table 162. China Water Resources Fish Identification and Monitoring System

Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. China Water Resources Recent Developments/Updates

Table 164. China Water Resources Competitive Strengths & Weaknesses

Table 165. CST T-SEA Basic Information, Manufacturing Base and Competitors

Table 166. CST T-SEA Major Business

Table 167. CST T-SEA Fish Identification and Monitoring System Product and Services

Table 168. CST T-SEA Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. CST T-SEA Recent Developments/Updates

Table 170. CST T-SEA Competitive Strengths & Weaknesses

Table 171. Keda Basic Information, Manufacturing Base and Competitors

Table 172. Keda Major Business

Table 173. Keda Fish Identification and Monitoring System Product and Services

Table 174. Keda Fish Identification and Monitoring System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Keda Recent Developments/Updates

Table 176. Keda Competitive Strengths & Weaknesses

Table 177. Global Key Players of Fish Identification and Monitoring System Upstream (Raw Materials)

Table 178. Global Fish Identification and Monitoring System Typical Customers

Table 179. Fish Identification and Monitoring System Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Fish Identification and Monitoring System Picture

Figure 2. World Fish Identification and Monitoring System Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Fish Identification and Monitoring System Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Fish Identification and Monitoring System Production (2021-2032) & (Units)

Figure 5. World Fish Identification and Monitoring System Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Fish Identification and Monitoring System Production Value Market Share by Region (2021-2032)

Figure 7. World Fish Identification and Monitoring System Production Market Share by Region (2021-2032)

Figure 8. North America Fish Identification and Monitoring System Production (2021-2032) & (Units)

Figure 9. Europe Fish Identification and Monitoring System Production (2021-2032) & (Units)

Figure 10. China Fish Identification and Monitoring System Production (2021-2032) & (Units)

Figure 11. Japan Fish Identification and Monitoring System Production (2021-2032) & (Units)

Figure 12. Fish Identification and Monitoring System Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Fish Identification and Monitoring System Consumption (2021-2032) & (Units)

Figure 15. World Fish Identification and Monitoring System Consumption Market Share by Region (2021-2032)

Figure 16. United States Fish Identification and Monitoring System Consumption (2021-2032) & (Units)

Figure 17. China Fish Identification and Monitoring System Consumption (2021-2032) & (Units)

Figure 18. Europe Fish Identification and Monitoring System Consumption (2021-2032) & (Units)

Figure 19. Japan Fish Identification and Monitoring System Consumption (2021-2032) & (Units)

Figure 20. South Korea Fish Identification and Monitoring System Consumption (2021-2032) & (Units)

Figure 21. ASEAN Fish Identification and Monitoring System Consumption (2021-2032) & (Units)

Figure 22. India Fish Identification and Monitoring System Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Fish Identification and Monitoring System by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Fish Identification and Monitoring System Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Fish Identification and Monitoring System Markets in 2025

Figure 26. United States VS China: Fish Identification and Monitoring System Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Fish Identification and Monitoring System Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Fish Identification and Monitoring System Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Fish Identification and Monitoring System Production Market Share 2025

Figure 30. China Based Manufacturers Fish Identification and Monitoring System Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Fish Identification and Monitoring System Production Market Share 2025

Figure 32. World Fish Identification and Monitoring System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Fish Identification and Monitoring System Production Value Market Share by Type in 2025

Figure 34. On-Premise

Figure 35. Cloud-Based

Figure 36. World Fish Identification and Monitoring System Production Market Share by Type (2021-2032)

Figure 37. World Fish Identification and Monitoring System Production Value Market Share by Type (2021-2032)

Figure 38. World Fish Identification and Monitoring System Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 39. World Fish Identification and Monitoring System Production Value by Recognition Technologies, (USD Million), 2021 & 2025 & 2032

Figure 40. World Fish Identification and Monitoring System Production Value Market

Share by Recognition Technologies in 2025

Figure 41. Image/Video Recognition

Figure 42. Acoustic Recognition

Figure 43. Multi-sensor Fusion

Figure 44. World Fish Identification and Monitoring System Production Market Share by Recognition Technologies (2021-2032)

Figure 45. World Fish Identification and Monitoring System Production Value Market Share by Recognition Technologies (2021-2032)

Figure 46. World Fish Identification and Monitoring System Average Price by Recognition Technologies (2021-2032) & (K US\$/Unit)

Figure 47. World Fish Identification and Monitoring System Production Value by Deployment Methods, (USD Million), 2021 & 2025 & 2032

Figure 48. World Fish Identification and Monitoring System Production Value Market Share by Deployment Methods in 2025

Figure 49. Fixed

Figure 50. Mobile

Figure 51. Semi-Fixed

Figure 52. World Fish Identification and Monitoring System Production Market Share by Deployment Methods (2021-2032)

Figure 53. World Fish Identification and Monitoring System Production Value Market Share by Deployment Methods (2021-2032)

Figure 54. World Fish Identification and Monitoring System Average Price by Deployment Methods (2021-2032) & (K US\$/Unit)

Figure 55. World Fish Identification and Monitoring System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Fish Identification and Monitoring System Production Value Market Share by Application in 2025

Figure 57. Aquaculture

Figure 58. Ecological Monitoring

Figure 59. Fishery Resource Management

Figure 60. Scientific Research

Figure 61. World Fish Identification and Monitoring System Production Market Share by Application (2021-2032)

Figure 62. World Fish Identification and Monitoring System Production Value Market Share by Application (2021-2032)

Figure 63. World Fish Identification and Monitoring System Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 64. Fish Identification and Monitoring System Industry Chain

Figure 65. Fish Identification and Monitoring System Procurement Model

Figure 66. Fish Identification and Monitoring System Sales Model

Figure 67. Fish Identification and Monitoring System Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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