

Global Ultra-Short Baseline Hydroacoustic Positioning System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ultra-Short Baseline Hydroacoustic Positioning System market size is expected to reach \$ 1290 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

In 2025, the global production of ultra-short baseline systems reached 26,100 units, with an average price of approximately US\$28,500 per unit.

An ultra-short baseline (USBR) system consists of a shipboard component and an underwater transponder. The shipboard component includes a signal processing unit, a transducer array, and peripheral auxiliary sensors (such as GNSS and attitude sensors). The signal processing unit acts as the control system, responsible for its operation. The shipboard acoustic transducer array is installed on the bottom or sides of the ship and consists of a central transmitting transducer and multiple surrounding hydrophones. The underwater component mainly refers to the transponder; if operating in a synchronized clock-triggered mode, a synchronized clock is also required. The transmitting transducer emits an acoustic signal, which is received by the hydrophones. When the underwater transponder receives the signal from the transmitting transducer, it emits a response signal, which is received by the hydrophones. By calculating the time and phase differences between the signals received by the hydrophones at different intervals, the precise location of the underwater transponder is obtained. Typically, the USBR transponder is installed on the back of the underwater hull, and its hemispherical directivity covers the entire upper space, ensuring the USBR positioning system functions correctly at various depths and inclinations underwater.

The global military and security landscape is driving the modernization of navies,

submarines, and anti-submarine networks, making underwater acoustic communication and positioning key technologies. For example, the United States, Singapore, and Japan have invested in large-scale anti-submarine and maritime surveillance projects; China has also emphasized its 'maritime power' strategy, leading to increased demand for deep-sea equipment. Simultaneously, civilian sectors such as offshore oil and gas extraction and offshore wind power are increasing their demand for long-range underwater communication, creating a dual market for defense and industry.

Defense strategies and industrial expansion provide substantial funding and project demands, driving the development of high-performance underwater acoustic systems. With 'networked anti-submarine warfare' as the goal, the technological approach leans towards multi-node collaborative networks (AUV, ship, and buoy cooperation); resource development scenarios emphasize high-bandwidth and pressure- and corrosion-resistant equipment.

Military applications include submarine communication, underwater target location, and unmanned surface vessel (USV) swarm operations; civilian applications include seabed exploration, pipeline inspection, environmental monitoring, and scientific research. Demanders include the Navy, Ministry of National Defense, offshore oil companies, marine research institutes, and environmental protection agencies.

The recent expansion of the global marine economy has significantly increased the demand for underwater acoustic systems. The industry has developed a relatively complete product chain, including commercial underwater acoustic modems (Evologics, LinkQuest, etc.), high-precision sonar positioning systems (Sonardyne, L3), autonomous underwater vehicles (ASV, ROV), and platform integration solutions. China's manned submersible projects such as the 'Jiaolong' and 'Fendouzhe' have driven the development of deep-sea communication prototypes (reaching 10kbps at a depth of 5000m). The defense sector has the strongest demand, with navies worldwide increasing investment to improve their anti-submarine communication networks. The oil and gas and new energy (offshore wind power) industries also have a growing demand for long-endurance, broadband communication. The civilian market, including environmental monitoring and marine scientific research, has significant potential. Consumer applications, such as recreational underwater communication, are still in their early stages.

Many countries have introduced policies to support the underwater acoustic industry. Europe and the United States have mature industrial ecosystems, with companies

including Teledyne Marine, Thales Underwater Systems, Kongsberg, and Subsea 7. China has also seen the emergence of a number of aerospace and marine technology companies and research institutes specializing in underwater acoustics, forming a relatively complete R&D and production system. In the commercial sector, underwater acoustic technology has been adopted in seabed observation networks and networked oil and gas operations, driving large-scale applications.

Currently, the manufacturing cost and complexity of underwater acoustic equipment remain high, and some key components in the industry chain (such as deep-sea piezoelectric ceramics and low-noise amplifiers) are heavily reliant on international technology. Product homogenization in the market is severe, making it difficult to scale up niche applications; simultaneously, the harsh marine environment leads to high costs for equipment maintenance and upgrades. Regarding policy risks, environmental regulations (noise pollution) and maritime sovereignty restrictions limiting cross-border communication deployment need to be considered.

This report studies the global Ultra-Short Baseline Hydroacoustic Positioning System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultra-Short Baseline Hydroacoustic Positioning 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 Ultra-Short Baseline Hydroacoustic Positioning System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ultra-Short Baseline Hydroacoustic Positioning System total production and demand, 2021-2032, (Units)

Global Ultra-Short Baseline Hydroacoustic Positioning System total production value, 2021-2032, (USD Million)

Global Ultra-Short Baseline Hydroacoustic Positioning System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Ultra-Short Baseline Hydroacoustic Positioning System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Ultra-Short Baseline Hydroacoustic Positioning System domestic production, consumption, key domestic manufacturers and share

Global Ultra-Short Baseline Hydroacoustic Positioning System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Ultra-Short Baseline Hydroacoustic Positioning System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Ultra-Short Baseline Hydroacoustic Positioning System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Ultra-Short Baseline Hydroacoustic Positioning 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 Advanced Navigation, Exail, Sonardyne, EvoLogics, LinkQuest, Jiaying Zhongke Acoustics Technology, China Haida, Harbin Engineering University, Blueprint Design, The 715th Research Institute of China State Shipbuilding Corporation Limited, 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 Ultra-Short Baseline Hydroacoustic Positioning System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 Ultra-Short Baseline Hydroacoustic Positioning System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultra-Short Baseline Hydroacoustic Positioning System Market, Segmentation by Type:

Underwater Acoustic Positioning Beacon

Underwater Acoustic Positioning Base Station

Global Ultra-Short Baseline Hydroacoustic Positioning System Market, Segmentation by Deployment Method:

Underwater Engineering Equipment

Underwater Robots

Seabed Observation Network

Others

Global Ultra-Short Baseline Hydroacoustic Positioning System Market, Segmentation by Positioning Distance:

? 3km

?3km

Global Ultra-Short Baseline Hydroacoustic Positioning System Market, Segmentation by Application:

Military

Industrial

Consumer

Companies Profiled:

Advanced Navigation

Exail

Sonardyne

EvoLogics

LinkQuest

Jiaxing Zhongke Acoustics Technology

China Haida

Harbin Engineering University

Blueprint Design

The 715th Research Institute of China State Shipbuilding Corporation Limited

Shenzhen Smart Ocean Technology

Whale Wave Technology

Shenzhen Zhilan Technology

Key Questions Answered:

1. How big is the global Ultra-Short Baseline Hydroacoustic Positioning System market?
2. What is the demand of the global Ultra-Short Baseline Hydroacoustic Positioning System market?
3. What is the year over year growth of the global Ultra-Short Baseline Hydroacoustic Positioning System market?
4. What is the production and production value of the global Ultra-Short Baseline Hydroacoustic Positioning System market?
5. Who are the key producers in the global Ultra-Short Baseline Hydroacoustic Positioning System market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Ultra-Short Baseline Hydroacoustic Positioning System Demand (2021-2032)
- 2.2 World Ultra-Short Baseline Hydroacoustic Positioning System Consumption by Region
 - 2.2.1 World Ultra-Short Baseline Hydroacoustic Positioning System Consumption by Region (2021-2026)
 - 2.2.2 World Ultra-Short Baseline Hydroacoustic Positioning System Consumption

Forecast by Region (2027-2032)

2.3 United States Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032)

2.4 China Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032)

2.5 Europe Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032)

2.6 Japan Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032)

2.7 South Korea Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032)

2.8 ASEAN Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032)

2.9 India Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Manufacturer (2021-2026)

3.2 World Ultra-Short Baseline Hydroacoustic Positioning System Production by Manufacturer (2021-2026)

3.3 World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Manufacturer (2021-2026)

3.4 Ultra-Short Baseline Hydroacoustic Positioning System Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Ultra-Short Baseline Hydroacoustic Positioning System Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Ultra-Short Baseline Hydroacoustic Positioning System in 2025

3.5.3 Global Concentration Ratios (CR8) for Ultra-Short Baseline Hydroacoustic Positioning System in 2025

3.6 Ultra-Short Baseline Hydroacoustic Positioning System Market: Overall Company Footprint Analysis

3.6.1 Ultra-Short Baseline Hydroacoustic Positioning System Market: Region Footprint

3.6.2 Ultra-Short Baseline Hydroacoustic Positioning System Market: Company Product Type Footprint

3.6.3 Ultra-Short Baseline Hydroacoustic Positioning 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: Ultra-Short Baseline Hydroacoustic Positioning System
Production Value Comparison

4.1.1 United States VS China: Ultra-Short Baseline Hydroacoustic Positioning System
Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Ultra-Short Baseline Hydroacoustic Positioning System
Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Ultra-Short Baseline Hydroacoustic Positioning System
Production Comparison

4.2.1 United States VS China: Ultra-Short Baseline Hydroacoustic Positioning System
Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Ultra-Short Baseline Hydroacoustic Positioning System
Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Ultra-Short Baseline Hydroacoustic Positioning System
Consumption Comparison

4.3.1 United States VS China: Ultra-Short Baseline Hydroacoustic Positioning System
Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Ultra-Short Baseline Hydroacoustic Positioning System
Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Ultra-Short Baseline Hydroacoustic Positioning System
Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Ultra-Short Baseline Hydroacoustic Positioning System
Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Ultra-Short Baseline Hydroacoustic
Positioning System Production Value (2021-2026)

4.4.3 United States Based Manufacturers Ultra-Short Baseline Hydroacoustic
Positioning System Production (2021-2026)

4.5 China Based Ultra-Short Baseline Hydroacoustic Positioning System Manufacturers
and Market Share

4.5.1 China Based Ultra-Short Baseline Hydroacoustic Positioning System

Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Value (2021-2026)

4.5.3 China Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production (2021-2026)

4.6 Rest of World Based Ultra-Short Baseline Hydroacoustic Positioning System Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Ultra-Short Baseline Hydroacoustic Positioning System Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Ultra-Short Baseline Hydroacoustic Positioning System Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Underwater Acoustic Positioning Beacon

5.2.2 Underwater Acoustic Positioning Base Station

5.3 Market Segment by Type

5.3.1 World Ultra-Short Baseline Hydroacoustic Positioning System Production by Type (2021-2032)

5.3.2 World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Type (2021-2032)

5.3.3 World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DEPLOYMENT METHOD

6.1 World Ultra-Short Baseline Hydroacoustic Positioning System Market Size Overview by Deployment Method: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Deployment Method

6.2.1 Underwater Engineering Equipment

6.2.2 Underwater Robots

6.2.3 Seabed Observation Network

6.2.4 Others

6.3 Market Segment by Deployment Method

6.3.1 World Ultra-Short Baseline Hydroacoustic Positioning System Production by Deployment Method (2021-2032)

6.3.2 World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Deployment Method (2021-2032)

6.3.3 World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Deployment Method (2021-2032)

7 MARKET ANALYSIS BY POSITIONING DISTANCE

7.1 World Ultra-Short Baseline Hydroacoustic Positioning System Market Size Overview by Positioning Distance: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Positioning Distance

7.2.1 ? 3km

7.2.2 ?3km

7.3 Market Segment by Positioning Distance

7.3.1 World Ultra-Short Baseline Hydroacoustic Positioning System Production by Positioning Distance (2021-2032)

7.3.2 World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Positioning Distance (2021-2032)

7.3.3 World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Positioning Distance (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Ultra-Short Baseline Hydroacoustic Positioning System Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Military

8.2.2 Industrial

8.2.3 Consumer

8.3 Market Segment by Application

8.3.1 World Ultra-Short Baseline Hydroacoustic Positioning System Production by Application (2021-2032)

8.3.2 World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Application (2021-2032)

8.3.3 World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Advanced Navigation

9.1.1 Advanced Navigation Details

9.1.2 Advanced Navigation Major Business

9.1.3 Advanced Navigation Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

9.1.4 Advanced Navigation Ultra-Short Baseline Hydroacoustic Positioning System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Advanced Navigation Recent Developments/Updates

9.1.6 Advanced Navigation Competitive Strengths & Weaknesses

9.2 Exail

9.2.1 Exail Details

9.2.2 Exail Major Business

9.2.3 Exail Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

9.2.4 Exail Ultra-Short Baseline Hydroacoustic Positioning System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Exail Recent Developments/Updates

9.2.6 Exail Competitive Strengths & Weaknesses

9.3 Sonardyne

9.3.1 Sonardyne Details

9.3.2 Sonardyne Major Business

9.3.3 Sonardyne Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

9.3.4 Sonardyne Ultra-Short Baseline Hydroacoustic Positioning System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Sonardyne Recent Developments/Updates

9.3.6 Sonardyne Competitive Strengths & Weaknesses

9.4 EvoLogics

9.4.1 EvoLogics Details

9.4.2 EvoLogics Major Business

9.4.3 EvoLogics Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

9.4.4 EvoLogics Ultra-Short Baseline Hydroacoustic Positioning System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 EvoLogics Recent Developments/Updates

9.4.6 EvoLogics Competitive Strengths & Weaknesses

9.5 LinkQuest

9.5.1 LinkQuest Details

- 9.5.2 LinkQuest Major Business
- 9.5.3 LinkQuest Ultra-Short Baseline Hydroacoustic Positioning System Product and Services
- 9.5.4 LinkQuest Ultra-Short Baseline Hydroacoustic Positioning System Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 LinkQuest Recent Developments/Updates
- 9.5.6 LinkQuest Competitive Strengths & Weaknesses
- 9.6 Jiaxing Zhongke Acoustics Technology
 - 9.6.1 Jiaxing Zhongke Acoustics Technology Details
 - 9.6.2 Jiaxing Zhongke Acoustics Technology Major Business
 - 9.6.3 Jiaxing Zhongke Acoustics Technology Ultra-Short Baseline Hydroacoustic Positioning System Product and Services
 - 9.6.4 Jiaxing Zhongke Acoustics Technology Ultra-Short Baseline Hydroacoustic Positioning System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Jiaxing Zhongke Acoustics Technology Recent Developments/Updates
 - 9.6.6 Jiaxing Zhongke Acoustics Technology Competitive Strengths & Weaknesses
- 9.7 China Haida
 - 9.7.1 China Haida Details
 - 9.7.2 China Haida Major Business
 - 9.7.3 China Haida Ultra-Short Baseline Hydroacoustic Positioning System Product and Services
 - 9.7.4 China Haida Ultra-Short Baseline Hydroacoustic Positioning System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 China Haida Recent Developments/Updates
 - 9.7.6 China Haida Competitive Strengths & Weaknesses
- 9.8 Harbin Engineering University
 - 9.8.1 Harbin Engineering University Details
 - 9.8.2 Harbin Engineering University Major Business
 - 9.8.3 Harbin Engineering University Ultra-Short Baseline Hydroacoustic Positioning System Product and Services
 - 9.8.4 Harbin Engineering University Ultra-Short Baseline Hydroacoustic Positioning System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Harbin Engineering University Recent Developments/Updates
 - 9.8.6 Harbin Engineering University Competitive Strengths & Weaknesses
- 9.9 Blueprint Design
 - 9.9.1 Blueprint Design Details
 - 9.9.2 Blueprint Design Major Business
 - 9.9.3 Blueprint Design Ultra-Short Baseline Hydroacoustic Positioning System Product

and Services

9.9.4 Blueprint Design Ultra-Short Baseline Hydroacoustic Positioning System
Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Blueprint Design Recent Developments/Updates

9.9.6 Blueprint Design Competitive Strengths & Weaknesses

9.10 The 715th Research Institute of China State Shipbuilding Corporation Limited

9.10.1 The 715th Research Institute of China State Shipbuilding Corporation Limited
Details

9.10.2 The 715th Research Institute of China State Shipbuilding Corporation Limited
Major Business

9.10.3 The 715th Research Institute of China State Shipbuilding Corporation Limited
Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

9.10.4 The 715th Research Institute of China State Shipbuilding Corporation Limited
Ultra-Short Baseline Hydroacoustic Positioning System Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.10.5 The 715th Research Institute of China State Shipbuilding Corporation Limited
Recent Developments/Updates

9.10.6 The 715th Research Institute of China State Shipbuilding Corporation Limited
Competitive Strengths & Weaknesses

9.11 Shenzhen Smart Ocean Technology

9.11.1 Shenzhen Smart Ocean Technology Details

9.11.2 Shenzhen Smart Ocean Technology Major Business

9.11.3 Shenzhen Smart Ocean Technology Ultra-Short Baseline Hydroacoustic
Positioning System Product and Services

9.11.4 Shenzhen Smart Ocean Technology Ultra-Short Baseline Hydroacoustic
Positioning System Production, Price, Value, Gross Margin and Market Share
(2021-2026)

9.11.5 Shenzhen Smart Ocean Technology Recent Developments/Updates

9.11.6 Shenzhen Smart Ocean Technology Competitive Strengths & Weaknesses

9.12 Whale Wave Technology

9.12.1 Whale Wave Technology Details

9.12.2 Whale Wave Technology Major Business

9.12.3 Whale Wave Technology Ultra-Short Baseline Hydroacoustic Positioning
System Product and Services

9.12.4 Whale Wave Technology Ultra-Short Baseline Hydroacoustic Positioning
System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Whale Wave Technology Recent Developments/Updates

9.12.6 Whale Wave Technology Competitive Strengths & Weaknesses

9.13 Shenzhen Zhilan Technology

- 9.13.1 Shenzhen Zhilan Technology Details
- 9.13.2 Shenzhen Zhilan Technology Major Business
- 9.13.3 Shenzhen Zhilan Technology Ultra-Short Baseline Hydroacoustic Positioning System Product and Services
- 9.13.4 Shenzhen Zhilan Technology Ultra-Short Baseline Hydroacoustic Positioning System Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 Shenzhen Zhilan Technology Recent Developments/Updates
- 9.13.6 Shenzhen Zhilan Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Ultra-Short Baseline Hydroacoustic Positioning System Industry Chain
- 10.2 Ultra-Short Baseline Hydroacoustic Positioning System Upstream Analysis
 - 10.2.1 Ultra-Short Baseline Hydroacoustic Positioning System Core Raw Materials
 - 10.2.2 Main Manufacturers of Ultra-Short Baseline Hydroacoustic Positioning System Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Ultra-Short Baseline Hydroacoustic Positioning System Production Mode
- 10.6 Ultra-Short Baseline Hydroacoustic Positioning System Procurement Model
- 10.7 Ultra-Short Baseline Hydroacoustic Positioning System Industry Sales Model and Sales Channels
 - 10.7.1 Ultra-Short Baseline Hydroacoustic Positioning System Sales Model
 - 10.7.2 Ultra-Short Baseline Hydroacoustic Positioning 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 Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Region (2021-2026) & (USD Million)

Table 3. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Region (2027-2032) & (USD Million)

Table 4. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share by Region (2021-2026)

Table 5. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share by Region (2027-2032)

Table 6. World Ultra-Short Baseline Hydroacoustic Positioning System Production by Region (2021-2026) & (Units)

Table 7. World Ultra-Short Baseline Hydroacoustic Positioning System Production by Region (2027-2032) & (Units)

Table 8. World Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share by Region (2021-2026)

Table 9. World Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share by Region (2027-2032)

Table 10. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Ultra-Short Baseline Hydroacoustic Positioning System Major Market Trends

Table 13. World Ultra-Short Baseline Hydroacoustic Positioning System Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Ultra-Short Baseline Hydroacoustic Positioning System Consumption by Region (2021-2026) & (Units)

Table 15. World Ultra-Short Baseline Hydroacoustic Positioning System Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Ultra-Short Baseline Hydroacoustic Positioning System Producers in 2025

Table 18. World Ultra-Short Baseline Hydroacoustic Positioning System Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Ultra-Short Baseline Hydroacoustic Positioning System Producers in 2025

Table 20. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Ultra-Short Baseline Hydroacoustic Positioning System Company Evaluation Quadrant

Table 22. World Ultra-Short Baseline Hydroacoustic Positioning System Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Ultra-Short Baseline Hydroacoustic Positioning System Production Site of Key Manufacturer

Table 24. Ultra-Short Baseline Hydroacoustic Positioning System Market: Company Product Type Footprint

Table 25. Ultra-Short Baseline Hydroacoustic Positioning System Market: Company Product Application Footprint

Table 26. Ultra-Short Baseline Hydroacoustic Positioning System Competitive Factors

Table 27. Ultra-Short Baseline Hydroacoustic Positioning System New Entrant and Capacity Expansion Plans

Table 28. Ultra-Short Baseline Hydroacoustic Positioning System Mergers & Acquisitions Activity

Table 29. United States VS China Ultra-Short Baseline Hydroacoustic Positioning System Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Ultra-Short Baseline Hydroacoustic Positioning System Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Ultra-Short Baseline Hydroacoustic Positioning System Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Ultra-Short Baseline Hydroacoustic Positioning System Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share (2021-2026)

Table 37. China Based Ultra-Short Baseline Hydroacoustic Positioning System Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share (2021-2026)

Table 42. Rest of World Based Ultra-Short Baseline Hydroacoustic Positioning System Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share (2021-2026)

Table 47. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Ultra-Short Baseline Hydroacoustic Positioning System Production by Type (2021-2026) & (Units)

Table 49. World Ultra-Short Baseline Hydroacoustic Positioning System Production by Type (2027-2032) & (Units)

Table 50. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Type (2021-2026) & (USD Million)

Table 51. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Type (2027-2032) & (USD Million)

Table 52. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Deployment Method, (USD Million), 2021 & 2025 & 2032

Table 55. World Ultra-Short Baseline Hydroacoustic Positioning System Production by Deployment Method (2021-2026) & (Units)

Table 56. World Ultra-Short Baseline Hydroacoustic Positioning System Production by Deployment Method (2027-2032) & (Units)

Table 57. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Deployment Method (2021-2026) & (USD Million)

Table 58. World Ultra-Short Baseline Hydroacoustic Positioning System Production

Value by Deployment Method (2027-2032) & (USD Million)

Table 59. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Deployment Method (2021-2026) & (US\$/Unit)

Table 60. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Deployment Method (2027-2032) & (US\$/Unit)

Table 61. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Positioning Distance, (USD Million), 2021 & 2025 & 2032

Table 62. World Ultra-Short Baseline Hydroacoustic Positioning System Production by Positioning Distance (2021-2026) & (Units)

Table 63. World Ultra-Short Baseline Hydroacoustic Positioning System Production by Positioning Distance (2027-2032) & (Units)

Table 64. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Positioning Distance (2021-2026) & (USD Million)

Table 65. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Positioning Distance (2027-2032) & (USD Million)

Table 66. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Positioning Distance (2021-2026) & (US\$/Unit)

Table 67. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Positioning Distance (2027-2032) & (US\$/Unit)

Table 68. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Ultra-Short Baseline Hydroacoustic Positioning System Production by Application (2021-2026) & (Units)

Table 70. World Ultra-Short Baseline Hydroacoustic Positioning System Production by Application (2027-2032) & (Units)

Table 71. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Application (2021-2026) & (USD Million)

Table 72. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Application (2027-2032) & (USD Million)

Table 73. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Advanced Navigation Basic Information, Manufacturing Base and Competitors

Table 76. Advanced Navigation Major Business

Table 77. Advanced Navigation Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

Table 78. Advanced Navigation Ultra-Short Baseline Hydroacoustic Positioning System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and

Market Share (2021-2026)

Table 79. Advanced Navigation Recent Developments/Updates

Table 80. Advanced Navigation Competitive Strengths & Weaknesses

Table 81. Exail Basic Information, Manufacturing Base and Competitors

Table 82. Exail Major Business

Table 83. Exail Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

Table 84. Exail Ultra-Short Baseline Hydroacoustic Positioning System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Exail Recent Developments/Updates

Table 86. Exail Competitive Strengths & Weaknesses

Table 87. Sonardyne Basic Information, Manufacturing Base and Competitors

Table 88. Sonardyne Major Business

Table 89. Sonardyne Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

Table 90. Sonardyne Ultra-Short Baseline Hydroacoustic Positioning System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Sonardyne Recent Developments/Updates

Table 92. Sonardyne Competitive Strengths & Weaknesses

Table 93. EvoLogics Basic Information, Manufacturing Base and Competitors

Table 94. EvoLogics Major Business

Table 95. EvoLogics Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

Table 96. EvoLogics Ultra-Short Baseline Hydroacoustic Positioning System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. EvoLogics Recent Developments/Updates

Table 98. EvoLogics Competitive Strengths & Weaknesses

Table 99. LinkQuest Basic Information, Manufacturing Base and Competitors

Table 100. LinkQuest Major Business

Table 101. LinkQuest Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

Table 102. LinkQuest Ultra-Short Baseline Hydroacoustic Positioning System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. LinkQuest Recent Developments/Updates

Table 104. LinkQuest Competitive Strengths & Weaknesses

Table 105. Jiaxing Zhongke Acoustics Technology Basic Information, Manufacturing Base and Competitors

Table 106. Jiaxing Zhongke Acoustics Technology Major Business

Table 107. Jiaxing Zhongke Acoustics Technology Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

Table 108. Jiaxing Zhongke Acoustics Technology Ultra-Short Baseline Hydroacoustic Positioning System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Jiaxing Zhongke Acoustics Technology Recent Developments/Updates

Table 110. Jiaxing Zhongke Acoustics Technology Competitive Strengths & Weaknesses

Table 111. China Haida Basic Information, Manufacturing Base and Competitors

Table 112. China Haida Major Business

Table 113. China Haida Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

Table 114. China Haida Ultra-Short Baseline Hydroacoustic Positioning System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. China Haida Recent Developments/Updates

Table 116. China Haida Competitive Strengths & Weaknesses

Table 117. Harbin Engineering University Basic Information, Manufacturing Base and Competitors

Table 118. Harbin Engineering University Major Business

Table 119. Harbin Engineering University Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

Table 120. Harbin Engineering University Ultra-Short Baseline Hydroacoustic Positioning System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Harbin Engineering University Recent Developments/Updates

Table 122. Harbin Engineering University Competitive Strengths & Weaknesses

Table 123. Blueprint Design Basic Information, Manufacturing Base and Competitors

Table 124. Blueprint Design Major Business

Table 125. Blueprint Design Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

Table 126. Blueprint Design Ultra-Short Baseline Hydroacoustic Positioning System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Blueprint Design Recent Developments/Updates

Table 128. Blueprint Design Competitive Strengths & Weaknesses

Table 129. The 715th Research Institute of China State Shipbuilding Corporation Limited Basic Information, Manufacturing Base and Competitors

Table 130. The 715th Research Institute of China State Shipbuilding Corporation Limited Major Business

Table 131. The 715th Research Institute of China State Shipbuilding Corporation Limited Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

Table 132. The 715th Research Institute of China State Shipbuilding Corporation Limited Ultra-Short Baseline Hydroacoustic Positioning System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. The 715th Research Institute of China State Shipbuilding Corporation Limited Recent Developments/Updates

Table 134. The 715th Research Institute of China State Shipbuilding Corporation Limited Competitive Strengths & Weaknesses

Table 135. Shenzhen Smart Ocean Technology Basic Information, Manufacturing Base and Competitors

Table 136. Shenzhen Smart Ocean Technology Major Business

Table 137. Shenzhen Smart Ocean Technology Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

Table 138. Shenzhen Smart Ocean Technology Ultra-Short Baseline Hydroacoustic Positioning System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Shenzhen Smart Ocean Technology Recent Developments/Updates

Table 140. Shenzhen Smart Ocean Technology Competitive Strengths & Weaknesses

Table 141. Whale Wave Technology Basic Information, Manufacturing Base and Competitors

Table 142. Whale Wave Technology Major Business

Table 143. Whale Wave Technology Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

Table 144. Whale Wave Technology Ultra-Short Baseline Hydroacoustic Positioning System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Whale Wave Technology Recent Developments/Updates

Table 146. Whale Wave Technology Competitive Strengths & Weaknesses

Table 147. Shenzhen Zhilan Technology Basic Information, Manufacturing Base and Competitors

Table 148. Shenzhen Zhilan Technology Major Business

Table 149. Shenzhen Zhilan Technology Ultra-Short Baseline Hydroacoustic Positioning System Product and Services

Table 150. Shenzhen Zhilan Technology Ultra-Short Baseline Hydroacoustic Positioning System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Shenzhen Zhilan Technology Recent Developments/Updates

Table 152. Shenzhen Zhilan Technology Competitive Strengths & Weaknesses

Table 153. Global Key Players of Ultra-Short Baseline Hydroacoustic Positioning System Upstream (Raw Materials)

Table 154. Global Ultra-Short Baseline Hydroacoustic Positioning System Typical Customers

Table 155. Ultra-Short Baseline Hydroacoustic Positioning System Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Ultra-Short Baseline Hydroacoustic Positioning System Picture

Figure 2. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Ultra-Short Baseline Hydroacoustic Positioning System Production (2021-2032) & (Units)

Figure 5. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share by Region (2021-2032)

Figure 7. World Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share by Region (2021-2032)

Figure 8. North America Ultra-Short Baseline Hydroacoustic Positioning System Production (2021-2032) & (Units)

Figure 9. Europe Ultra-Short Baseline Hydroacoustic Positioning System Production (2021-2032) & (Units)

Figure 10. China Ultra-Short Baseline Hydroacoustic Positioning System Production (2021-2032) & (Units)

Figure 11. Ultra-Short Baseline Hydroacoustic Positioning System Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032) & (Units)

Figure 14. World Ultra-Short Baseline Hydroacoustic Positioning System Consumption Market Share by Region (2021-2032)

Figure 15. United States Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032) & (Units)

Figure 16. China Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032) & (Units)

Figure 17. Europe Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032) & (Units)

Figure 18. Japan Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032) & (Units)

Figure 19. South Korea Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032) & (Units)

Figure 20. ASEAN Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032) & (Units)

Figure 21. India Ultra-Short Baseline Hydroacoustic Positioning System Consumption (2021-2032) & (Units)

Figure 22. Producer Shipments of Ultra-Short Baseline Hydroacoustic Positioning System by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Ultra-Short Baseline Hydroacoustic Positioning System Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Ultra-Short Baseline Hydroacoustic Positioning System Markets in 2025

Figure 25. United States VS China: Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Ultra-Short Baseline Hydroacoustic Positioning System Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share 2025

Figure 29. China Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share 2025

Figure 31. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share by Type in 2025

Figure 33. Underwater Acoustic Positioning Beacon

Figure 34. Underwater Acoustic Positioning Base Station

Figure 35. World Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share by Type (2021-2032)

Figure 36. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share by Type (2021-2032)

Figure 37. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Type (2021-2032) & (US\$/Unit)

Figure 38. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Deployment Method, (USD Million), 2021 & 2025 & 2032

Figure 39. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share by Deployment Method in 2025

Figure 40. Underwater Engineering Equipment

Figure 41. Underwater Robots

Figure 42. Seabed Observation Network

Figure 43. Others

Figure 44. World Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share by Deployment Method (2021-2032)

Figure 45. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share by Deployment Method (2021-2032)

Figure 46. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Deployment Method (2021-2032) & (US\$/Unit)

Figure 47. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Positioning Distance, (USD Million), 2021 & 2025 & 2032

Figure 48. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share by Positioning Distance in 2025

Figure 49. ? 3km

Figure 50. ?3km

Figure 51. World Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share by Positioning Distance (2021-2032)

Figure 52. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share by Positioning Distance (2021-2032)

Figure 53. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Positioning Distance (2021-2032) & (US\$/Unit)

Figure 54. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share by Application in 2025

Figure 56. Military

Figure 57. Industrial

Figure 58. Consumer

Figure 59. World Ultra-Short Baseline Hydroacoustic Positioning System Production Market Share by Application (2021-2032)

Figure 60. World Ultra-Short Baseline Hydroacoustic Positioning System Production Value Market Share by Application (2021-2032)

Figure 61. World Ultra-Short Baseline Hydroacoustic Positioning System Average Price by Application (2021-2032) & (US\$/Unit)

Figure 62. Ultra-Short Baseline Hydroacoustic Positioning System Industry Chain

Figure 63. Ultra-Short Baseline Hydroacoustic Positioning System Procurement Model

Figure 64. Ultra-Short Baseline Hydroacoustic Positioning System Sales Model

Figure 65. Ultra-Short Baseline Hydroacoustic Positioning System Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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