

Global Agricultural Planting Weather Station Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Agricultural Planting Weather Station market size is expected to reach \$ 386 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

In 2025, global Agricultural Planting Weather Stations production reached approximately 139,818 units, with an average global market price of around US\$ 1,531 per unit. Gross margin is about 24%. The cost is US\$ 1,164 per unit. The production capacity is about 200,000 units. An Agricultural Planting Weather Station is a specialized meteorological monitoring device designed for crop planting areas. It collects real-time environmental data including temperature, humidity, precipitation, wind speed and direction, solar radiation, soil temperature and moisture, and atmospheric pressure. Through data acquisition, storage, analysis, and transmission, it provides scientific support for crop irrigation, fertilization, pest and disease control, weather disaster warning, and precision farm management. The system typically consists of sensors, data loggers, communication modules, power supply, mounting structures, and software platforms, forming a key infrastructure for modern precision and smart agriculture.

Agricultural planting weather stations are expected to evolve toward greater intelligence, connectivity, multi-parameter integration, and data-service capabilities. The adoption of IoT, 5G/LPWAN, cloud computing, and big data analytics will enable real-time monitoring, remote management, and predictive analysis. Sensor accuracy and coverage will continuously improve, while low-power operation, solar power supply, and mobility are emphasized. These stations will be increasingly integrated with irrigation control systems, pest and disease prediction models, agricultural machinery scheduling platforms, and agricultural insurance, enabling data-driven planting decisions, risk

mitigation, and enhanced crop productivity.

This report studies the global Agricultural Planting Weather Station production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Agricultural Planting Weather Station 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 Agricultural Planting Weather Station that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Agricultural Planting Weather Station total production and demand, 2021-2032, (Units)

Global Agricultural Planting Weather Station total production value, 2021-2032, (USD Million)

Global Agricultural Planting Weather Station production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Agricultural Planting Weather Station consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Agricultural Planting Weather Station domestic production, consumption, key domestic manufacturers and share

Global Agricultural Planting Weather Station production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Agricultural Planting Weather Station production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Agricultural Planting Weather Station production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Agricultural Planting Weather Station 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 Davis Instruments, Campbell Scientific, Pessl Instruments, Vaisala, Rainwise, Hexagon Agriculture, OTT HydroMet, KMA, TOPCloud?Agri, Jingxun Changtong, 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 Agricultural Planting Weather Station 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 Agricultural Planting Weather Station Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Agricultural Planting Weather Station Market, Segmentation by Type:

Portable Agricultural Weather Station

Fixed Agricultural Weather Station

Global Agricultural Planting Weather Station Market, Segmentation by Function:

Basic Agricultural Weather Station

Multi-parameter Agricultural Weather Station

Smart Connected Agricultural Weather Station

Global Agricultural Planting Weather Station Market, Segmentation by Technology:

Wired Transmission Type

Wireless Transmission Type

IoT Cloud Platform Type

Global Agricultural Planting Weather Station Market, Segmentation by Application:

Agriculture

Forestry

Animal Husbandry

Companies Profiled:

Davis Instruments

Campbell Scientific

Pessl Instruments

Vaisala

Rainwise

Hexagon Agriculture

OTT HydroMet

KMA

TOPCloud?Agri

Jingxun Changtong

Shandong Renk Control & Measurement

Shandong Fengtu IoT / Fengtu IoT

Jingdao Optoelectronics

Eiko Instruments

WatchDog (Spectrum Technologies)

Lufft

Kestrel (NK Technologies)

Sony

Key Questions Answered:

1. How big is the global Agricultural Planting Weather Station market?
2. What is the demand of the global Agricultural Planting Weather Station market?
3. What is the year over year growth of the global Agricultural Planting Weather Station market?
4. What is the production and production value of the global Agricultural Planting Weather Station market?
5. Who are the key producers in the global Agricultural Planting Weather Station market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Agricultural Planting Weather Station Demand (2021-2032)
- 2.2 World Agricultural Planting Weather Station Consumption by Region
 - 2.2.1 World Agricultural Planting Weather Station Consumption by Region (2021-2026)
 - 2.2.2 World Agricultural Planting Weather Station Consumption Forecast by Region (2027-2032)
- 2.3 United States Agricultural Planting Weather Station Consumption (2021-2032)
- 2.4 China Agricultural Planting Weather Station Consumption (2021-2032)
- 2.5 Europe Agricultural Planting Weather Station Consumption (2021-2032)
- 2.6 Japan Agricultural Planting Weather Station Consumption (2021-2032)
- 2.7 South Korea Agricultural Planting Weather Station Consumption (2021-2032)
- 2.8 ASEAN Agricultural Planting Weather Station Consumption (2021-2032)

2.9 India Agricultural Planting Weather Station Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Agricultural Planting Weather Station Production Value by Manufacturer (2021-2026)

3.2 World Agricultural Planting Weather Station Production by Manufacturer (2021-2026)

3.3 World Agricultural Planting Weather Station Average Price by Manufacturer (2021-2026)

3.4 Agricultural Planting Weather Station Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Agricultural Planting Weather Station Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Agricultural Planting Weather Station in 2025

3.5.3 Global Concentration Ratios (CR8) for Agricultural Planting Weather Station in 2025

3.6 Agricultural Planting Weather Station Market: Overall Company Footprint Analysis

3.6.1 Agricultural Planting Weather Station Market: Region Footprint

3.6.2 Agricultural Planting Weather Station Market: Company Product Type Footprint

3.6.3 Agricultural Planting Weather Station 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: Agricultural Planting Weather Station Production Value Comparison

4.1.1 United States VS China: Agricultural Planting Weather Station Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Agricultural Planting Weather Station Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Agricultural Planting Weather Station Production

Comparison

4.2.1 United States VS China: Agricultural Planting Weather Station Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Agricultural Planting Weather Station Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Agricultural Planting Weather Station Consumption Comparison

4.3.1 United States VS China: Agricultural Planting Weather Station Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Agricultural Planting Weather Station Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Agricultural Planting Weather Station Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Agricultural Planting Weather Station Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Agricultural Planting Weather Station Production Value (2021-2026)

4.4.3 United States Based Manufacturers Agricultural Planting Weather Station Production (2021-2026)

4.5 China Based Agricultural Planting Weather Station Manufacturers and Market Share

4.5.1 China Based Agricultural Planting Weather Station Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Agricultural Planting Weather Station Production Value (2021-2026)

4.5.3 China Based Manufacturers Agricultural Planting Weather Station Production (2021-2026)

4.6 Rest of World Based Agricultural Planting Weather Station Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Agricultural Planting Weather Station Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Agricultural Planting Weather Station Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Agricultural Planting Weather Station Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Agricultural Planting Weather Station Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Portable Agricultural Weather Station

5.2.2 Fixed Agricultural Weather Station

5.3 Market Segment by Type

5.3.1 World Agricultural Planting Weather Station Production by Type (2021-2032)

5.3.2 World Agricultural Planting Weather Station Production Value by Type (2021-2032)

5.3.3 World Agricultural Planting Weather Station Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FUNCTION

6.1 World Agricultural Planting Weather Station Market Size Overview by Function: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Function

6.2.1 Basic Agricultural Weather Station

6.2.2 Multi-parameter Agricultural Weather Station

6.2.3 Smart Connected Agricultural Weather Station

6.3 Market Segment by Function

6.3.1 World Agricultural Planting Weather Station Production by Function (2021-2032)

6.3.2 World Agricultural Planting Weather Station Production Value by Function (2021-2032)

6.3.3 World Agricultural Planting Weather Station Average Price by Function (2021-2032)

7 MARKET ANALYSIS BY TECHNOLOGY

7.1 World Agricultural Planting Weather Station Market Size Overview by Technology: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Technology

7.2.1 Wired Transmission Type

7.2.2 Wireless Transmission Type

7.2.3 IoT Cloud Platform Type

7.3 Market Segment by Technology

7.3.1 World Agricultural Planting Weather Station Production by Technology (2021-2032)

7.3.2 World Agricultural Planting Weather Station Production Value by Technology (2021-2032)

7.3.3 World Agricultural Planting Weather Station Average Price by Technology (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Agricultural Planting Weather Station Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Agriculture

8.2.2 Forestry

8.2.3 Animal Husbandry

8.3 Market Segment by Application

8.3.1 World Agricultural Planting Weather Station Production by Application (2021-2032)

8.3.2 World Agricultural Planting Weather Station Production Value by Application (2021-2032)

8.3.3 World Agricultural Planting Weather Station Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Davis Instruments

9.1.1 Davis Instruments Details

9.1.2 Davis Instruments Major Business

9.1.3 Davis Instruments Agricultural Planting Weather Station Product and Services

9.1.4 Davis Instruments Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Davis Instruments Recent Developments/Updates

9.1.6 Davis Instruments Competitive Strengths & Weaknesses

9.2 Campbell Scientific

9.2.1 Campbell Scientific Details

9.2.2 Campbell Scientific Major Business

9.2.3 Campbell Scientific Agricultural Planting Weather Station Product and Services

9.2.4 Campbell Scientific Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Campbell Scientific Recent Developments/Updates

9.2.6 Campbell Scientific Competitive Strengths & Weaknesses

9.3 Pessl Instruments

9.3.1 Pessl Instruments Details

9.3.2 Pessl Instruments Major Business

9.3.3 Pessl Instruments Agricultural Planting Weather Station Product and Services

9.3.4 Pessl Instruments Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Pessl Instruments Recent Developments/Updates

9.3.6 Pessl Instruments Competitive Strengths & Weaknesses

9.4 Vaisala

9.4.1 Vaisala Details

9.4.2 Vaisala Major Business

9.4.3 Vaisala Agricultural Planting Weather Station Product and Services

9.4.4 Vaisala Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Vaisala Recent Developments/Updates

9.4.6 Vaisala Competitive Strengths & Weaknesses

9.5 Rainwise

9.5.1 Rainwise Details

9.5.2 Rainwise Major Business

9.5.3 Rainwise Agricultural Planting Weather Station Product and Services

9.5.4 Rainwise Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Rainwise Recent Developments/Updates

9.5.6 Rainwise Competitive Strengths & Weaknesses

9.6 Hexagon Agriculture

9.6.1 Hexagon Agriculture Details

9.6.2 Hexagon Agriculture Major Business

9.6.3 Hexagon Agriculture Agricultural Planting Weather Station Product and Services

9.6.4 Hexagon Agriculture Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Hexagon Agriculture Recent Developments/Updates

9.6.6 Hexagon Agriculture Competitive Strengths & Weaknesses

9.7 OTT HydroMet

9.7.1 OTT HydroMet Details

9.7.2 OTT HydroMet Major Business

9.7.3 OTT HydroMet Agricultural Planting Weather Station Product and Services

9.7.4 OTT HydroMet Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 OTT HydroMet Recent Developments/Updates

9.7.6 OTT HydroMet Competitive Strengths & Weaknesses

9.8 KMA

9.8.1 KMA Details

9.8.2 KMA Major Business

- 9.8.3 KMA Agricultural Planting Weather Station Product and Services
- 9.8.4 KMA Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.8.5 KMA Recent Developments/Updates
- 9.8.6 KMA Competitive Strengths & Weaknesses
- 9.9 TOPCloud?Agri
 - 9.9.1 TOPCloud?Agri Details
 - 9.9.2 TOPCloud?Agri Major Business
 - 9.9.3 TOPCloud?Agri Agricultural Planting Weather Station Product and Services
 - 9.9.4 TOPCloud?Agri Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 TOPCloud?Agri Recent Developments/Updates
 - 9.9.6 TOPCloud?Agri Competitive Strengths & Weaknesses
- 9.10 Jingxun Changtong
 - 9.10.1 Jingxun Changtong Details
 - 9.10.2 Jingxun Changtong Major Business
 - 9.10.3 Jingxun Changtong Agricultural Planting Weather Station Product and Services
 - 9.10.4 Jingxun Changtong Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Jingxun Changtong Recent Developments/Updates
 - 9.10.6 Jingxun Changtong Competitive Strengths & Weaknesses
- 9.11 Shandong Renk Control & Measurement
 - 9.11.1 Shandong Renk Control & Measurement Details
 - 9.11.2 Shandong Renk Control & Measurement Major Business
 - 9.11.3 Shandong Renk Control & Measurement Agricultural Planting Weather Station Product and Services
 - 9.11.4 Shandong Renk Control & Measurement Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Shandong Renk Control & Measurement Recent Developments/Updates
 - 9.11.6 Shandong Renk Control & Measurement Competitive Strengths & Weaknesses
- 9.12 Shandong Fengtu IoT / Fengtu IoT
 - 9.12.1 Shandong Fengtu IoT / Fengtu IoT Details
 - 9.12.2 Shandong Fengtu IoT / Fengtu IoT Major Business
 - 9.12.3 Shandong Fengtu IoT / Fengtu IoT Agricultural Planting Weather Station Product and Services
 - 9.12.4 Shandong Fengtu IoT / Fengtu IoT Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Shandong Fengtu IoT / Fengtu IoT Recent Developments/Updates
 - 9.12.6 Shandong Fengtu IoT / Fengtu IoT Competitive Strengths & Weaknesses

9.13 Jingdao Optoelectronics

9.13.1 Jingdao Optoelectronics Details

9.13.2 Jingdao Optoelectronics Major Business

9.13.3 Jingdao Optoelectronics Agricultural Planting Weather Station Product and Services

9.13.4 Jingdao Optoelectronics Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Jingdao Optoelectronics Recent Developments/Updates

9.13.6 Jingdao Optoelectronics Competitive Strengths & Weaknesses

9.14 Eiko Instruments

9.14.1 Eiko Instruments Details

9.14.2 Eiko Instruments Major Business

9.14.3 Eiko Instruments Agricultural Planting Weather Station Product and Services

9.14.4 Eiko Instruments Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Eiko Instruments Recent Developments/Updates

9.14.6 Eiko Instruments Competitive Strengths & Weaknesses

9.15 WatchDog (Spectrum Technologies)

9.15.1 WatchDog (Spectrum Technologies) Details

9.15.2 WatchDog (Spectrum Technologies) Major Business

9.15.3 WatchDog (Spectrum Technologies) Agricultural Planting Weather Station Product and Services

9.15.4 WatchDog (Spectrum Technologies) Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 WatchDog (Spectrum Technologies) Recent Developments/Updates

9.15.6 WatchDog (Spectrum Technologies) Competitive Strengths & Weaknesses

9.16 Lufft

9.16.1 Lufft Details

9.16.2 Lufft Major Business

9.16.3 Lufft Agricultural Planting Weather Station Product and Services

9.16.4 Lufft Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Lufft Recent Developments/Updates

9.16.6 Lufft Competitive Strengths & Weaknesses

9.17 Kestrel (NK Technologies)

9.17.1 Kestrel (NK Technologies) Details

9.17.2 Kestrel (NK Technologies) Major Business

9.17.3 Kestrel (NK Technologies) Agricultural Planting Weather Station Product and Services

9.17.4 Kestrel (NK Technologies) Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Kestrel (NK Technologies) Recent Developments/Updates

9.17.6 Kestrel (NK Technologies) Competitive Strengths & Weaknesses

9.18 Sony

9.18.1 Sony Details

9.18.2 Sony Major Business

9.18.3 Sony Agricultural Planting Weather Station Product and Services

9.18.4 Sony Agricultural Planting Weather Station Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Sony Recent Developments/Updates

9.18.6 Sony Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Agricultural Planting Weather Station Industry Chain

10.2 Agricultural Planting Weather Station Upstream Analysis

10.2.1 Agricultural Planting Weather Station Core Raw Materials

10.2.2 Main Manufacturers of Agricultural Planting Weather Station Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Agricultural Planting Weather Station Production Mode

10.6 Agricultural Planting Weather Station Procurement Model

10.7 Agricultural Planting Weather Station Industry Sales Model and Sales Channels

10.7.1 Agricultural Planting Weather Station Sales Model

10.7.2 Agricultural Planting Weather Station 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 Agricultural Planting Weather Station Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Agricultural Planting Weather Station Production Value by Region (2021-2026) & (USD Million)

Table 3. World Agricultural Planting Weather Station Production Value by Region (2027-2032) & (USD Million)

Table 4. World Agricultural Planting Weather Station Production Value Market Share by Region (2021-2026)

Table 5. World Agricultural Planting Weather Station Production Value Market Share by Region (2027-2032)

Table 6. World Agricultural Planting Weather Station Production by Region (2021-2026) & (Units)

Table 7. World Agricultural Planting Weather Station Production by Region (2027-2032) & (Units)

Table 8. World Agricultural Planting Weather Station Production Market Share by Region (2021-2026)

Table 9. World Agricultural Planting Weather Station Production Market Share by Region (2027-2032)

Table 10. World Agricultural Planting Weather Station Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Agricultural Planting Weather Station Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Agricultural Planting Weather Station Major Market Trends

Table 13. World Agricultural Planting Weather Station Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Agricultural Planting Weather Station Consumption by Region (2021-2026) & (Units)

Table 15. World Agricultural Planting Weather Station Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Agricultural Planting Weather Station Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Agricultural Planting Weather Station Producers in 2025

Table 18. World Agricultural Planting Weather Station Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Agricultural Planting Weather Station Producers in 2025

Table 20. World Agricultural Planting Weather Station Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Agricultural Planting Weather Station Company Evaluation Quadrant

Table 22. World Agricultural Planting Weather Station Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Agricultural Planting Weather Station Production Site of Key Manufacturer

Table 24. Agricultural Planting Weather Station Market: Company Product Type Footprint

Table 25. Agricultural Planting Weather Station Market: Company Product Application Footprint

Table 26. Agricultural Planting Weather Station Competitive Factors

Table 27. Agricultural Planting Weather Station New Entrant and Capacity Expansion Plans

Table 28. Agricultural Planting Weather Station Mergers & Acquisitions Activity

Table 29. United States VS China Agricultural Planting Weather Station Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Agricultural Planting Weather Station Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Agricultural Planting Weather Station Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Agricultural Planting Weather Station Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Agricultural Planting Weather Station Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Agricultural Planting Weather Station Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Agricultural Planting Weather Station Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Agricultural Planting Weather Station Production Market Share (2021-2026)

Table 37. China Based Agricultural Planting Weather Station Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Agricultural Planting Weather Station Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Agricultural Planting Weather Station Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Agricultural Planting Weather Station Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Agricultural Planting Weather Station Production Market Share (2021-2026)

Table 42. Rest of World Based Agricultural Planting Weather Station Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Agricultural Planting Weather Station Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Agricultural Planting Weather Station Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Agricultural Planting Weather Station Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Agricultural Planting Weather Station Production Market Share (2021-2026)

Table 47. World Agricultural Planting Weather Station Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Agricultural Planting Weather Station Production by Type (2021-2026) & (Units)

Table 49. World Agricultural Planting Weather Station Production by Type (2027-2032) & (Units)

Table 50. World Agricultural Planting Weather Station Production Value by Type (2021-2026) & (USD Million)

Table 51. World Agricultural Planting Weather Station Production Value by Type (2027-2032) & (USD Million)

Table 52. World Agricultural Planting Weather Station Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Agricultural Planting Weather Station Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Agricultural Planting Weather Station Production Value by Function, (USD Million), 2021 & 2025 & 2032

Table 55. World Agricultural Planting Weather Station Production by Function (2021-2026) & (Units)

Table 56. World Agricultural Planting Weather Station Production by Function (2027-2032) & (Units)

Table 57. World Agricultural Planting Weather Station Production Value by Function (2021-2026) & (USD Million)

Table 58. World Agricultural Planting Weather Station Production Value by Function (2027-2032) & (USD Million)

Table 59. World Agricultural Planting Weather Station Average Price by Function

(2021-2026) & (US\$/Unit)

Table 60. World Agricultural Planting Weather Station Average Price by Function

(2027-2032) & (US\$/Unit)

Table 61. World Agricultural Planting Weather Station Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 62. World Agricultural Planting Weather Station Production by Technology (2021-2026) & (Units)

Table 63. World Agricultural Planting Weather Station Production by Technology (2027-2032) & (Units)

Table 64. World Agricultural Planting Weather Station Production Value by Technology (2021-2026) & (USD Million)

Table 65. World Agricultural Planting Weather Station Production Value by Technology (2027-2032) & (USD Million)

Table 66. World Agricultural Planting Weather Station Average Price by Technology (2021-2026) & (US\$/Unit)

Table 67. World Agricultural Planting Weather Station Average Price by Technology (2027-2032) & (US\$/Unit)

Table 68. World Agricultural Planting Weather Station Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Agricultural Planting Weather Station Production by Application (2021-2026) & (Units)

Table 70. World Agricultural Planting Weather Station Production by Application (2027-2032) & (Units)

Table 71. World Agricultural Planting Weather Station Production Value by Application (2021-2026) & (USD Million)

Table 72. World Agricultural Planting Weather Station Production Value by Application (2027-2032) & (USD Million)

Table 73. World Agricultural Planting Weather Station Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Agricultural Planting Weather Station Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Davis Instruments Basic Information, Manufacturing Base and Competitors

Table 76. Davis Instruments Major Business

Table 77. Davis Instruments Agricultural Planting Weather Station Product and Services

Table 78. Davis Instruments Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Davis Instruments Recent Developments/Updates

Table 80. Davis Instruments Competitive Strengths & Weaknesses

Table 81. Campbell Scientific Basic Information, Manufacturing Base and Competitors
Table 82. Campbell Scientific Major Business
Table 83. Campbell Scientific Agricultural Planting Weather Station Product and Services
Table 84. Campbell Scientific Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Campbell Scientific Recent Developments/Updates
Table 86. Campbell Scientific Competitive Strengths & Weaknesses
Table 87. Pessl Instruments Basic Information, Manufacturing Base and Competitors
Table 88. Pessl Instruments Major Business
Table 89. Pessl Instruments Agricultural Planting Weather Station Product and Services
Table 90. Pessl Instruments Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Pessl Instruments Recent Developments/Updates
Table 92. Pessl Instruments Competitive Strengths & Weaknesses
Table 93. Vaisala Basic Information, Manufacturing Base and Competitors
Table 94. Vaisala Major Business
Table 95. Vaisala Agricultural Planting Weather Station Product and Services
Table 96. Vaisala Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Vaisala Recent Developments/Updates
Table 98. Vaisala Competitive Strengths & Weaknesses
Table 99. Rainwise Basic Information, Manufacturing Base and Competitors
Table 100. Rainwise Major Business
Table 101. Rainwise Agricultural Planting Weather Station Product and Services
Table 102. Rainwise Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Rainwise Recent Developments/Updates
Table 104. Rainwise Competitive Strengths & Weaknesses
Table 105. Hexagon Agriculture Basic Information, Manufacturing Base and Competitors
Table 106. Hexagon Agriculture Major Business
Table 107. Hexagon Agriculture Agricultural Planting Weather Station Product and Services
Table 108. Hexagon Agriculture Agricultural Planting Weather Station Production

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

Table 109. Hexagon Agriculture Recent Developments/Updates

Table 110. Hexagon Agriculture Competitive Strengths & Weaknesses

Table 111. OTT HydroMet Basic Information, Manufacturing Base and Competitors

Table 112. OTT HydroMet Major Business

Table 113. OTT HydroMet Agricultural Planting Weather Station Product and Services

Table 114. OTT HydroMet Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. OTT HydroMet Recent Developments/Updates

Table 116. OTT HydroMet Competitive Strengths & Weaknesses

Table 117. KMA Basic Information, Manufacturing Base and Competitors

Table 118. KMA Major Business

Table 119. KMA Agricultural Planting Weather Station Product and Services

Table 120. KMA Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. KMA Recent Developments/Updates

Table 122. KMA Competitive Strengths & Weaknesses

Table 123. TOPCloud?Agri Basic Information, Manufacturing Base and Competitors

Table 124. TOPCloud?Agri Major Business

Table 125. TOPCloud?Agri Agricultural Planting Weather Station Product and Services

Table 126. TOPCloud?Agri Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. TOPCloud?Agri Recent Developments/Updates

Table 128. TOPCloud?Agri Competitive Strengths & Weaknesses

Table 129. Jingxun Changtong Basic Information, Manufacturing Base and Competitors

Table 130. Jingxun Changtong Major Business

Table 131. Jingxun Changtong Agricultural Planting Weather Station Product and Services

Table 132. Jingxun Changtong Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Jingxun Changtong Recent Developments/Updates

Table 134. Jingxun Changtong Competitive Strengths & Weaknesses

Table 135. Shandong Renk Control & Measurement Basic Information, Manufacturing Base and Competitors

Table 136. Shandong Renk Control & Measurement Major Business

Table 137. Shandong Renk Control & Measurement Agricultural Planting Weather Station Product and Services

Table 138. Shandong Renk Control & Measurement Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Shandong Renk Control & Measurement Recent Developments/Updates

Table 140. Shandong Renk Control & Measurement Competitive Strengths & Weaknesses

Table 141. Shandong Fengtu IoT / Fengtu IoT Basic Information, Manufacturing Base and Competitors

Table 142. Shandong Fengtu IoT / Fengtu IoT Major Business

Table 143. Shandong Fengtu IoT / Fengtu IoT Agricultural Planting Weather Station Product and Services

Table 144. Shandong Fengtu IoT / Fengtu IoT Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Shandong Fengtu IoT / Fengtu IoT Recent Developments/Updates

Table 146. Shandong Fengtu IoT / Fengtu IoT Competitive Strengths & Weaknesses

Table 147. Jingdao Optoelectronics Basic Information, Manufacturing Base and Competitors

Table 148. Jingdao Optoelectronics Major Business

Table 149. Jingdao Optoelectronics Agricultural Planting Weather Station Product and Services

Table 150. Jingdao Optoelectronics Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Jingdao Optoelectronics Recent Developments/Updates

Table 152. Jingdao Optoelectronics Competitive Strengths & Weaknesses

Table 153. Eiko Instruments Basic Information, Manufacturing Base and Competitors

Table 154. Eiko Instruments Major Business

Table 155. Eiko Instruments Agricultural Planting Weather Station Product and Services

Table 156. Eiko Instruments Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Eiko Instruments Recent Developments/Updates

Table 158. Eiko Instruments Competitive Strengths & Weaknesses

Table 159. WatchDog (Spectrum Technologies) Basic Information, Manufacturing Base and Competitors

Table 160. WatchDog (Spectrum Technologies) Major Business
Table 161. WatchDog (Spectrum Technologies) Agricultural Planting Weather Station Product and Services
Table 162. WatchDog (Spectrum Technologies) Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. WatchDog (Spectrum Technologies) Recent Developments/Updates
Table 164. WatchDog (Spectrum Technologies) Competitive Strengths & Weaknesses
Table 165. Lufft Basic Information, Manufacturing Base and Competitors
Table 166. Lufft Major Business
Table 167. Lufft Agricultural Planting Weather Station Product and Services
Table 168. Lufft Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Lufft Recent Developments/Updates
Table 170. Lufft Competitive Strengths & Weaknesses
Table 171. Kestrel (NK Technologies) Basic Information, Manufacturing Base and Competitors
Table 172. Kestrel (NK Technologies) Major Business
Table 173. Kestrel (NK Technologies) Agricultural Planting Weather Station Product and Services
Table 174. Kestrel (NK Technologies) Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. Kestrel (NK Technologies) Recent Developments/Updates
Table 176. Kestrel (NK Technologies) Competitive Strengths & Weaknesses
Table 177. Sony Basic Information, Manufacturing Base and Competitors
Table 178. Sony Major Business
Table 179. Sony Agricultural Planting Weather Station Product and Services
Table 180. Sony Agricultural Planting Weather Station Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 181. Sony Recent Developments/Updates
Table 182. Sony Competitive Strengths & Weaknesses
Table 183. Global Key Players of Agricultural Planting Weather Station Upstream (Raw Materials)
Table 184. Global Agricultural Planting Weather Station Typical Customers
Table 185. Agricultural Planting Weather Station Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Agricultural Planting Weather Station Picture
- Figure 2. World Agricultural Planting Weather Station Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Agricultural Planting Weather Station Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Agricultural Planting Weather Station Production (2021-2032) & (Units)
- Figure 5. World Agricultural Planting Weather Station Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Agricultural Planting Weather Station Production Value Market Share by Region (2021-2032)
- Figure 7. World Agricultural Planting Weather Station Production Market Share by Region (2021-2032)
- Figure 8. North America Agricultural Planting Weather Station Production (2021-2032) & (Units)
- Figure 9. Europe Agricultural Planting Weather Station Production (2021-2032) & (Units)
- Figure 10. China Agricultural Planting Weather Station Production (2021-2032) & (Units)
- Figure 11. Japan Agricultural Planting Weather Station Production (2021-2032) & (Units)
- Figure 12. Agricultural Planting Weather Station Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Agricultural Planting Weather Station Consumption (2021-2032) & (Units)
- Figure 15. World Agricultural Planting Weather Station Consumption Market Share by Region (2021-2032)
- Figure 16. United States Agricultural Planting Weather Station Consumption (2021-2032) & (Units)
- Figure 17. China Agricultural Planting Weather Station Consumption (2021-2032) & (Units)
- Figure 18. Europe Agricultural Planting Weather Station Consumption (2021-2032) & (Units)
- Figure 19. Japan Agricultural Planting Weather Station Consumption (2021-2032) & (Units)
- Figure 20. South Korea Agricultural Planting Weather Station Consumption (2021-2032) & (Units)

Figure 21. ASEAN Agricultural Planting Weather Station Consumption (2021-2032) & (Units)

Figure 22. India Agricultural Planting Weather Station Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Agricultural Planting Weather Station by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Agricultural Planting Weather Station Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Agricultural Planting Weather Station Markets in 2025

Figure 26. United States VS China: Agricultural Planting Weather Station Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Agricultural Planting Weather Station Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Agricultural Planting Weather Station Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Agricultural Planting Weather Station Production Market Share 2025

Figure 30. China Based Manufacturers Agricultural Planting Weather Station Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Agricultural Planting Weather Station Production Market Share 2025

Figure 32. World Agricultural Planting Weather Station Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Agricultural Planting Weather Station Production Value Market Share by Type in 2025

Figure 34. Portable Agricultural Weather Station

Figure 35. Fixed Agricultural Weather Station

Figure 36. World Agricultural Planting Weather Station Production Market Share by Type (2021-2032)

Figure 37. World Agricultural Planting Weather Station Production Value Market Share by Type (2021-2032)

Figure 38. World Agricultural Planting Weather Station Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Agricultural Planting Weather Station Production Value by Function, (USD Million), 2021 & 2025 & 2032

Figure 40. World Agricultural Planting Weather Station Production Value Market Share by Function in 2025

Figure 41. Basic Agricultural Weather Station

Figure 42. Multi-parameter Agricultural Weather Station

Figure 43. Smart Connected Agricultural Weather Station

Figure 44. World Agricultural Planting Weather Station Production Market Share by Function (2021-2032)

Figure 45. World Agricultural Planting Weather Station Production Value Market Share by Function (2021-2032)

Figure 46. World Agricultural Planting Weather Station Average Price by Function (2021-2032) & (US\$/Unit)

Figure 47. World Agricultural Planting Weather Station Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Figure 48. World Agricultural Planting Weather Station Production Value Market Share by Technology in 2025

Figure 49. Wired Transmission Type

Figure 50. Wireless Transmission Type

Figure 51. IoT Cloud Platform Type

Figure 52. World Agricultural Planting Weather Station Production Market Share by Technology (2021-2032)

Figure 53. World Agricultural Planting Weather Station Production Value Market Share by Technology (2021-2032)

Figure 54. World Agricultural Planting Weather Station Average Price by Technology (2021-2032) & (US\$/Unit)

Figure 55. World Agricultural Planting Weather Station Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Agricultural Planting Weather Station Production Value Market Share by Application in 2025

Figure 57. Agriculture

Figure 58. Forestry

Figure 59. Animal Husbandry

Figure 60. World Agricultural Planting Weather Station Production Market Share by Application (2021-2032)

Figure 61. World Agricultural Planting Weather Station Production Value Market Share by Application (2021-2032)

Figure 62. World Agricultural Planting Weather Station Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. Agricultural Planting Weather Station Industry Chain

Figure 64. Agricultural Planting Weather Station Procurement Model

Figure 65. Agricultural Planting Weather Station Sales Model

Figure 66. Agricultural Planting Weather Station Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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