+357 96 030922
info@marketpublishers.com

Global Drone-based Weather Monitoring System Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G2AE6C737350EN.html
Date: June 2026
Pages: 133
Price: US$ 4,480.00 (Single User License)
ID: G2AE6C737350EN

Abstracts

The global Drone-based Weather Monitoring System market size is expected to reach $ 1756 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

A drone-based meteorological monitoring system is an unmanned aerial vehicle (UAV) platform equipped with meteorological sensors, designed to collect atmospheric data—such as temperature, humidity, wind speed, atmospheric pressure, and particulate matter concentration—in real time. Characterized by high mobility, extensive coverage, and high-resolution data acquisition capabilities, this system is particularly well-suited for areas that are difficult for traditional ground-based weather stations to reach. It finds widespread application across various fields, including meteorological monitoring, environmental protection, emergency disaster response, and precision agriculture. The industry value chain for drone-based meteorological monitoring systems comprises an upstream segment consisting of core components such as the drone platform itself, meteorological sensors, GPS modules, communication systems, and onboard power systems. The midstream segment encompasses system integration, software development, sensor calibration, and the development of data processing platforms. The downstream application layer covers end-users such as meteorological agencies, environmental monitoring departments, agricultural enterprises, disaster management organizations, and research institutions; it also includes supporting services—such as cloud-based data analytics, equipment maintenance, flight operations support, and technical training—aimed at ensuring the accuracy and stability of data collection. In 2025, the production volume of drone-based meteorological monitoring systems is projected to reach approximately 47,200 units, with a global average market price of approximately $25,000 per unit. The gross profit margins of major industry players are expected to range between 30% and 50%. By 2025, the global production capacity for

+357 96 030922
info@marketpublishers.com

drone-based meteorological monitoring systems is estimated to reach approximately 62,900 units.

This report studies the global Drone-based Weather Monitoring System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Drone-based Weather Monitoring System and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Drone-based Weather Monitoring System that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Drone-based Weather Monitoring System total production and demand, 2021-2032, (Units)
Global Drone-based Weather Monitoring System total production value, 2021-2032, (USD Million)
Global Drone-based Weather Monitoring System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Drone-based Weather Monitoring System consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Drone-based Weather Monitoring System domestic production, consumption, key domestic manufacturers and share
Global Drone-based Weather Monitoring System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Drone-based Weather Monitoring System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Drone-based Weather Monitoring System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Drone-based Weather Monitoring System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Scentroid, Meteomatics, Vaisala, Shandong Fengtu Internet of Things Technology Co., Ltd., Hangzhou Shallow-Sea Technology Co., Ltd., ZOGLAB Microsystem Inc., Aosien, Beijing Zhixin Huanke Information Technology Co., Ltd., Beijing Truwel Instrument?Inc., Beijing KEYTEC

+357 96 030922
info@marketpublishers.com

Technology Co., Ltd., 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 Drone-based Weather Monitoring 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 Drone-based Weather Monitoring System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Drone-based Weather Monitoring System Market, Segmentation by Type:

Multirotor Drone Weather Monitoring System

+357 96 030922
info@marketpublishers.com

Fixed-Wing UAV Weather Monitoring System

VTOL Hybrid UAV Meteorological System

Global Drone-based Weather Monitoring System Market, Segmentation by Operation Mode:

Real-Time Drone Monitoring System

Autonomous Flight Weather Monitoring System

Remote-Controlled UAV Weather System

Global Drone-based Weather Monitoring System Market, Segmentation by Maximum Range:

Short Range: 1–5 km

Medium Range: 5–20 km

Long-Endurance Platform: 20–200+ km

Global Drone-based Weather Monitoring System Market, Segmentation by Application:

Weather Forecast Data Collection

Atmospheric Boundary Layer Research

Agricultural Microclimate Monitoring

Disaster Early Warning Systems

Urban Climate Studies

Companies Profiled:

+357 96 030922
info@marketpublishers.com

Scentroid

Meteomatics

Vaisala

Shandong Fengtu Internet of Things Technology Co., Ltd.

Hangzhou Shallow-Sea Technology Co., Ltd.

ZOGLAB Microsystem Inc.

Aosien

Beijing Zhixin Huanke Information Technology Co., Ltd.

Beijing Truwel Instrument?Inc.

Beijing KEYTEC Technology Co., Ltd.

Terra Drone

Skydio

Key Questions Answered:
1. How big is the global Drone-based Weather Monitoring System market?
2. What is the demand of the global Drone-based Weather Monitoring System market?
3. What is the year over year growth of the global Drone-based Weather Monitoring System market?
4. What is the production and production value of the global Drone-based Weather Monitoring System market?
5. Who are the key producers in the global Drone-based Weather Monitoring System market?
6. What are the growth factors driving the market demand?

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

4 UNITED STATES VS CHINA VS REST OF THE WORLD

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

5 MARKET ANALYSIS BY TYPE

6 MARKET ANALYSIS BY OPERATION MODE

7 MARKET ANALYSIS BY MAXIMUM RANGE

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

10 INDUSTRY CHAIN ANALYSIS

11 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

12 APPENDIX

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Drone-based Weather Monitoring System Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/G2AE6C737350EN.html

Price: US$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G2AE6C737350EN.html