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Global Drone-based Weather Monitoring System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Drone-based Weather Monitoring System market size was valued at US$ 1214 million in 2025 and is forecast to a readjusted size of US$ 1756 million by 2032 with a CAGR of 5.5% during review period.

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

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

This report is a detailed and comprehensive analysis for global Drone-based Weather Monitoring System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Drone-based Weather Monitoring System market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Drone-based Weather Monitoring System market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Drone-based Weather Monitoring System market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Drone-based Weather Monitoring System market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Drone-based Weather Monitoring System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Drone-based Weather Monitoring System market based on the following parameters - company overview, sales quantity, revenue, 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 Technology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Drone-based Weather Monitoring System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Multirotor Drone Weather Monitoring System

Fixed-Wing UAV Weather Monitoring System

VTOL Hybrid UAV Meteorological System

Market segment by Operation Mode

Real-Time Drone Monitoring System

Autonomous Flight Weather Monitoring System

Remote-Controlled UAV Weather System

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Market segment by Maximum Range

Short Range: 1–5 km

Medium Range: 5–20 km

Long-Endurance Platform: 20–200+ km

Market segment by Application

Weather Forecast Data Collection

Atmospheric Boundary Layer Research

Agricultural Microclimate Monitoring

Disaster Early Warning Systems

Urban Climate Studies

Major players covered

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.

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Beijing Truwel Instrument?Inc.

Beijing KEYTEC Technology Co., Ltd.

Terra Drone

Skydio

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Drone-based Weather Monitoring System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Drone-based Weather Monitoring System, with price, sales quantity, revenue, and global market share of Drone-based Weather Monitoring System from 2021 to 2026.

Chapter 3, the Drone-based Weather Monitoring System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Drone-based Weather Monitoring System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by

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regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Drone-based Weather Monitoring System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Drone-based Weather Monitoring System.

Chapter 14 and 15, to describe Drone-based Weather Monitoring System sales channel, distributors, customers, research findings and conclusion.

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