

Global Drone-based Weather Monitoring System Market Growth 2026-2032

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Abstracts

The global Drone-based Weather Monitoring System market size is predicted to grow from US\$ 1154 million in 2025 to US\$ 1702 million in 2032; it is expected to grow at a CAGR of 5.8% from 2026 to 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

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

United States market for Drone-based Weather Monitoring System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Drone-based Weather Monitoring System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Drone-based Weather Monitoring System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Drone-based Weather Monitoring System players cover Scentroid, Meteomatics, Vaisala, Shandong Fengtu Internet of Things Technology Co., Ltd., Hangzhou Shallow-Sea Technology Co., Ltd., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Drone-based Weather Monitoring System Industry Forecast" looks at past sales and reviews total world Drone-based Weather Monitoring System sales in 2025, providing a comprehensive analysis by region and market sector of projected Drone-based Weather Monitoring System sales for 2026 through 2032. With Drone-based Weather Monitoring System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Drone-based Weather Monitoring System industry.

This Insight Report provides a comprehensive analysis of the global Drone-based Weather Monitoring System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Drone-based Weather Monitoring System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Drone-based Weather Monitoring System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Drone-based Weather Monitoring System and breaks

down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Drone-based Weather Monitoring System.

This report presents a comprehensive overview, market shares, and growth opportunities of Drone-based Weather Monitoring System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Multicopter Drone Weather Monitoring System

Fixed-Wing UAV Weather Monitoring System

VTOL Hybrid UAV Meteorological System

Segmentation by Operation Mode:

Real-Time Drone Monitoring System

Autonomous Flight Weather Monitoring System

Remote-Controlled UAV Weather System

Segmentation by Maximum Range:

Short Range: 1-5 km

Medium Range: 5-20 km

Long-Endurance Platform: 20-200+ km

Segmentation by Application:

Weather Forecast Data Collection

Atmospheric Boundary Layer Research

Agricultural Microclimate Monitoring

Disaster Early Warning Systems

Urban Climate Studies

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Truwei Instrument Inc.

Beijing KEYTEC Technology Co., Ltd.

Terra Drone

Skydio

Key Questions Addressed in this Report

What is the 10-year outlook for the global Drone-based Weather Monitoring System market?

What factors are driving Drone-based Weather Monitoring System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Drone-based Weather Monitoring System market opportunities vary by end market size?

How does Drone-based Weather Monitoring System break out by Type, by Application?

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