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Global GIS-based UAV Flight Planning Software Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global GIS-based UAV Flight Planning Software market size is expected to reach $ 732 million by 2032, rising at a market growth of 11.9% CAGR during the forecast period (2026-2032).

GIS-based UAV flight and mission planning software refers to geospatial software platforms used to design, manage, and execute drone flight routes and operational missions based on 2D maps, 3D terrain, reality models, point clouds, imagery basemaps, airspace constraints, no-fly zones, and user-defined areas of interest. Typical functions include waypoint planning, grid missions, corridor missions, oblique capture planning, terrain following, altitude and speed configuration, camera and payload actions, launch and return settings, mission segmentation, KML/SHP/GeoJSON import, 3D preview, mission simulation, route sharing, flight logs, compliance support, and repeatable mission execution. The core value of this software is to convert geospatial data, flight-control logic, industry-specific capture parameters, and safety constraints into executable drone missions or cloud-based task plans, improving efficiency, data consistency, safety, and repeatability in mapping, surveying, inspection, emergency response, energy, mining, agriculture, public safety, and low-altitude operations.

According to our research, GIS-based UAV flight and mission planning software is not simply a digital mapping tool; it is the operational planning layer that enables drones to move from manual piloting toward automated, repeatable, and scalable missions. Its core value lies in combining geospatial basemaps, terrain models, 3D data, airspace constraints, drone performance parameters, payload actions, and industry-specific task requirements into executable flight routes. Compared with conventional GIS software, this category places greater emphasis on flight altitude, speed, overlap ratio, terrain

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following, camera triggering, launch and return settings, safety limits, and repeatable mission execution. Compared with basic drone ground control software, it relies more heavily on spatial data management, area-of-interest definition, mission templates, 3D preview, data quality consistency, and workflow integration. Therefore, the market scope should focus on platforms that provide real flight planning, mission planning, and route execution capabilities, rather than including all GIS software, drone cloud platforms, or photogrammetry tools. From a supply perspective, the global market is shaped by several distinct groups of providers. GIS-native platforms, represented by Esri, connect UAV flight planning with enterprise geospatial content, reality mapping, and 3D workflows. Drone OEM ecosystem providers, such as DJI, Wingtra, JOUAV, Autel Robotics, EagleNXT / senseFly, and Feima Robotics, usually integrate route planning tightly with their own aircraft, payloads, controllers, and data workflows. Independent mission planning platforms, including UgCS, DroneDeploy, Drone Harmony, Dronelink, Map Pilot Pro, and FlytBase, compete through multi-mission templates, complex terrain support, inspection workflows, cloud collaboration, and enterprise task management. Another group, including Aloft, DroneSense, Auterion, SkyGrid, QGroundControl, and UAV Navigation, is positioned around fleet management, compliance, ground control, public safety, autonomous systems, or low-altitude operations. This layered supply structure means that the broad vendor pool is larger than the core revenue model, and only platforms with clear UAV route or mission planning functions should be counted in the core scope. From a demand perspective, surveying and mapping remain the most established use cases, especially for grid missions, orthomosaic capture, terrain-following flights, oblique imagery, and repeatable data acquisition. However, the strongest incremental demand is coming from inspection, public safety, energy, utilities, mining, construction, agriculture, and dock-based remote operations. In these applications, users increasingly need reusable routes, shared mission templates, automated repeat flights, cloud scheduling, flight logs, compliance records, and integration with downstream asset or data systems. Drone docks and remote operations are also shifting planning workflows from field-based manual route creation to cloud-based mission templates and centralized task dispatch. As BVLOS operations, low-altitude economies, and UTM-related workflows mature, flight planning software will increasingly incorporate airspace data, weather, obstacle information, risk assessment, operational approvals, and live situational awareness. From a product and technology route perspective, the market is moving from 2D map-based route drawing toward 3D GIS, reality models, point clouds, digital twins, and AI-assisted mission design. Modern platforms are increasingly expected to support terrain following, corridor missions, fa?ade inspection, oblique capture, 3D previews, repeatable patrols, and remote execution through drone docks or cloud-connected fleets. The competitive focus is no longer limited to whether a user can draw waypoints on a map; it now includes

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data-source compatibility, 3D environment understanding, mission safety checks, cross-platform aircraft support, payload control, API integration, route versioning, enterprise permission management, and cybersecurity. Platforms that can connect flight planning with data processing, asset inspection, compliance, and enterprise GIS workflows are likely to capture higher-value customers than tools focused only on basic route creation. From a competitive outlook perspective, GIS-based UAV flight planning software will continue to fragment by ecosystem, industry workflow, and operating model. DJI and other drone OEMs will remain strong where aircraft, payload, controller, and cloud services are tightly integrated. Esri and other geospatial platforms will be favored by enterprise GIS users that need UAV missions to fit into broader mapping, asset, and digital twin workflows. Independent planning platforms will retain value where customers need multi-aircraft compatibility, complex terrain planning, inspection-specific missions, or hardware-agnostic workflows. Remote-operation and compliance platforms will become more important as drone docks, BVLOS missions, public safety operations, and low-altitude airspace management expand. Overall, this is a growth market: basic flight planning is becoming commoditized, but advanced GIS integration, 3D mission design, autonomous operations, fleet-level planning, and regulatory-aware workflows will remain key sources of differentiation.

This report studies the global GIS-based UAV Flight Planning Software demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for GIS-based UAV Flight Planning Software, 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 GIS-based UAV Flight Planning Software that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global GIS-based UAV Flight Planning Software total market, 2021-2032, (USD Million)
Global GIS-based UAV Flight Planning Software total market by region & country, CAGR, 2021-2032, (USD Million)
U.S. VS China: GIS-based UAV Flight Planning Software total market, key domestic companies, and share, (USD Million)
Global GIS-based UAV Flight Planning Software revenue by player, revenue and market share 2021-2026, (USD Million)
Global GIS-based UAV Flight Planning Software total market by Deployment Model, CAGR, 2021-2032, (USD Million)
Global GIS-based UAV Flight Planning Software total market by Application, CAGR,

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2021-2032, (USD Million)

This report profiles major players in the global GIS-based UAV Flight Planning Software market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Esri, SZ DJI Technology Co., Ltd., SPH Engineering, DroneDeploy, Inc., FlytBase, Inc., Drone Harmony AG, Auterion, Dronelink, Maps Made Easy, Shenzhen Feima Robotics 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 GIS-based UAV Flight Planning Software market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Deployment Model, 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 GIS-based UAV Flight Planning Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global GIS-based UAV Flight Planning Software Market, Segmentation by Deployment Model:

Mobile App-based Planning

Desktop Planning Software

Web / Cloud-based Planning

Global GIS-based UAV Flight Planning Software Market, Segmentation by Mission Type:

Mapping Grid Missions

Corridor / Linear Missions

Oblique / 3D Reconstruction Missions

Waypoint Patrol Missions

Dock-based Recurrent Missions

Global GIS-based UAV Flight Planning Software Market, Segmentation by Primary Planning Logic:

Manual Waypoint-sequence Planning

2D Geometry-based Planning

Elevation-constrained Planning

3D Object-constrained Planning

Global GIS-based UAV Flight Planning Software Market, Segmentation by Application:

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Surveying and Mapping

Energy and Utilities Inspection

Construction and Mining

Public Safety and Emergency Response

Agriculture and Forestry

Companies Profiled:

Esri

SZ DJI Technology Co., Ltd.

SPH Engineering

DroneDeploy, Inc.

FlytBase, Inc.

Drone Harmony AG

Auterion

Dronelink

Maps Made Easy

Shenzhen Feima Robotics Co., Ltd.

Aloft Technologies

DroneSense

SkyGrid

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Key Questions Answered

1. How big is the global GIS-based UAV Flight Planning Software market?
2. What is the demand of the global GIS-based UAV Flight Planning Software market?
3. What is the year over year growth of the global GIS-based UAV Flight Planning Software market?
4. What is the total value of the global GIS-based UAV Flight Planning Software market?
5. Who are the Major Players in the global GIS-based UAV Flight Planning Software market?
6. What are the growth factors driving the market demand?

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