

UAV Payload and Subsystems Market Report by Type (Camera and Sensors, Weaponry, Radar and Communications, and Others), Subsystems (Ground Control Station System, Signal Transmission System, Propulsion System), Application (Military, Civil), and Region 2024-2032

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Abstracts

The global UAV payload and subsystems market size reached US\$ 10.9 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 19.7 Billion by 2032, exhibiting a growth rate (CAGR) of 6.5% during 2024-2032.

An Unnamed Ariel Vehicle, i.e. UAV, or a drone indispensably carries extra weight which is not included in the weight of the drone itself. This weight includes extra cameras, sensors or packages for delivery. Payloads which are required for business drones mainly include GPS, additional data telemetry, LiDAR etc. With the advancement in technology, military sectors, as well as commercial users, are increasingly utilising drones to enhance their services and outputs. The size and weight of the payloads is decided by the weight of the drone. A heavier drone can carry big payloads. The demand of payload subsystems is increasing in parallel with the increasing popularity of drones.

Drivers of Global UAV Payload and Subsystems Market:

Both developed as well as the developing nations are seeking the utility of drones for various tasks such as to improve the surveillance and communication systems, make rescue operations more efficient, and the collection and management of data. A wide range of payloads including sensors, communication systems and electronics, etc., are

required for performing all the aforementioned tasks.

There are numerous improvements made in persistent surveillance systems, electronic counter-measures and communications. Along with this, there has been a rise in the use of UAVs for the purpose of search and rescue operations.

UAVs are being increasingly deployed in military and defence activities. The military industry has increased its spending on the payload subsystems for surveillance, intelligence and imaging, detection of mapping as well as for carrying the weaponries. The UAV payload subsystems market has seen a noticeable boost accrediting to the frequent utilisations of UAVs in the agriculture, retail, media and entertainment sectors. Commercial users enhance their photography outputs by using the UAVs.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global UAV payload and subsystems market report, along with forecasts at the global and regional level from 2024-2032. Our report has categorized the market based on type, subsystems and application.

Breakup by Type:

- Camera and Sensors
- Weaponry
- Radar and Communications
- Others

Based on the type, the market has been segmented as camera and sensors, weaponry, radar and communications, and others. Currently, cameras and sensors currently hold the largest market share.

Breakup by Subsystems:

- Ground Control Station System
- Signal Transmission System
- Propulsion System

Based on the subsystems, the market has been segmented as ground control station system, signal transmission system and propulsion system. Amongst all these, ground control station system currently represent as the leading segment.

Breakup by Application:

Military
Civil

Based on the application, the market has been segmented into military and civil. Military applications currently represent as the largest segment.

Breakup by Region:

North America
Asia Pacific
Europe
Middle East and Africa
Latin America

Region-wise, the market has been segmented into North America, Asia Pacific, Europe, Middle East and Africa, and Latin America. North America represents the biggest market and holds majority of the market share.

Competitive Landscape:

The competitive landscape of the market has also been examined with some of the key players being AeroVironment, Boeing, Elbit Systems, BAE Systems, Northrop Grumman Corporation, Harris Corporation, CACI International, Rheinmetall AG, ThalesRaytheonSystems, Lockheed Martin Corporation, Israel Aerospace Industries, General Dynamics Corporation, GA-ASI, Raytheon and Textron Systems.

This report provides a deep insight into the global UAV payload and subsystems market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for entrepreneurs, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the UAV payload and subsystems industry in any manner.

Key Questions Answered in This Report:

How has the global UAV payload and subsystems market performed so far and how will

it perform in the coming years?

What has been the impact of COVID-19 on the global UAV payload and subsystems market?

What are the key regions in the global UAV payload and subsystems market?

What are the major types in the global UAV payload and subsystems market?

What are the major types of subsystems in the global UAV payload and subsystems market?

What are the major application areas in the global UAV payload and subsystems market?

What are the various stages in the value chain of the global UAV payload and subsystems industry?

What are the key driving factors and challenges in the global UAV payload and subsystems industry?

What is the structure of the global UAV payload and subsystems industry and who are the key players?

What is the degree of competition in the global UAV payload and subsystems industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL UAV PAYLOAD AND SUBSYSTEMS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Breakup by Type
- 5.5 Market Breakup by Subsystems
- 5.6 Market Breakup by Application
- 5.7 Market Breakup by Region
- 5.8 Market Forecast
- 5.9 SWOT Analysis
 - 5.9.1 Overview
 - 5.9.2 Strengths
 - 5.9.3 Weaknesses
 - 5.9.4 Opportunities
 - 5.9.5 Threats

5.10 Value Chain Analysis

- 5.10.1 Overview
- 5.10.2 Research and Development
- 5.10.3 Raw Material Procurement
- 5.10.4 Manufacturing
- 5.10.5 Marketing
- 5.10.6 Distribution
- 5.10.7 End-Use

5.11 Porters Five Forces Analysis

- 5.11.1 Overview
- 5.11.2 Bargaining Power of Buyers
- 5.11.3 Bargaining Power of Suppliers
- 5.11.4 Degree of Competition
- 5.11.5 Threat of New Entrants
- 5.11.6 Threat of Substitutes

5.12 Price Analysis

6 MARKET BREAKUP BY TYPE

6.1 Camera and Sensors

- 6.1.1 Market Trends
- 6.1.2 Market Forecast

6.2 Weaponry

- 6.2.1 Market Trends
- 6.2.2 Market Forecast

6.3 Radar and Communications

- 6.3.1 Market Trends
- 6.3.2 Market Forecast

6.4 Others

- 6.4.1 Market Trends
- 6.4.2 Market Forecast

7 MARKET BREAKUP BY SUBSYSTEMS

7.1 Ground Control Station System

- 7.1.1 Market Trends
- 7.1.2 Market Forecast

7.2 Signal Transmission System

- 7.2.1 Market Trends

- 7.2.2 Market Forecast
- 7.3 Propulsion System
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

- 8.1 Military
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Civil
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast

9 MARKET BREAKUP BY REGION

- 9.1 North America
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 Asia Pacific
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Market Trends
 - 9.3.2 Market Forecast
- 9.4 Middle East and Africa
 - 9.4.1 Market Trends
 - 9.4.2 Market Forecast
- 9.5 Latin America
 - 9.5.1 Market Trends
 - 9.5.2 Market Forecast

10 COMPETITIVE LANDSCAPE

- 10.1 Market Structure
- 10.2 Key Players
- 10.3 Profiles of Key Players
 - 10.3.1 AeroVironment
 - 10.3.2 Boeing

- 10.3.3 Elbit Systems
- 10.3.4 BAE Systems
- 10.3.5 Northrop Grumman Corporation
- 10.3.6 Harris Corporation
- 10.3.7 CACI International
- 10.3.8 Rheinmetall AG
- 10.3.9 ThalesRaytheonSystems
- 10.3.10 Lockheed Martin Corporation
- 10.3.11 Israel Aerospace Industries
- 10.3.12 General Dynamics Corporation
- 10.3.13 GA-ASI
- 10.3.14 Raytheon
- 10.3.15 Textron Systems

List Of Tables

LIST OF TABLES

Table 1: Global: UAV Payload and Subsystems Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: UAV Payload and Subsystems Market Forecast: Breakup by Type (in Million US\$), 2024-2032

Table 3: Global: UAV Payload and Subsystems Market Forecast: Breakup by Subsystem (in Million US\$), 2024-2032

Table 4: Global: UAV Payload and Subsystems Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 5: Global: UAV Payload and Subsystems Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 6: Global: UAV Payload and Subsystems Market: Competitive Structure

Table 7: Global: UAV Payload and Subsystems Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: UAV Payload and Subsystems Market: Major Drivers and Challenges
- Figure 2: Global: UAV Payload and Subsystems Market: Sales Value (in Billion US\$), 2018-2023
- Figure 3: Global: UAV Payload and Subsystems Market: Breakup by Type (in %), 2023
- Figure 4: Global: UAV Payload and Subsystems Market: Breakup by Subsystems (in %), 2023
- Figure 5: Global: UAV Payload and Subsystems Market: Breakup by Application (in %), 2023
- Figure 6: Global: UAV Payload and Subsystems Market: Breakup by Region (in %), 2023
- Figure 7: Global: UAV Payload and Subsystems Market Forecast: Sales Value (in Billion US\$), 2024-2032
- Figure 8: Global: UAV Payload and Subsystems Industry: SWOT Analysis
- Figure 9: Global: UAV Payload and Subsystems Industry: Value Chain Analysis
- Figure 10: Global: UAV Payload and Subsystems Industry: Porter's Five Forces Analysis
- Figure 11: Global: UAV Payload and Subsystems (Camera and Sensors) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 12: Global: UAV Payload and Subsystems (Camera and Sensors) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 13: Global: UAV Payload and Subsystems (Weaponry) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 14: Global: UAV Payload and Subsystems (Weaponry) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 15: Global: UAV Payload and Subsystems (Radar and Communications) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 16: Global: UAV Payload and Subsystems (Radar and Communications) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 17: Global: UAV Payload and Subsystems (Other Types) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 18: Global: UAV Payload and Subsystems (Other Types) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 19: Global: UAV Payload and Subsystems (Ground Control Station System) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 20: Global: UAV Payload and Subsystems (Ground Control Station System)

Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: UAV Payload and Subsystems (Signal Transmission System)

Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: UAV Payload and Subsystems (Signal Transmission System) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Global: UAV Payload and Subsystems (Propulsion System) Market: Sales

Value (in Million US\$), 2018 & 2023

Figure 24: Global: UAV Payload and Subsystems (Propulsion System) Market Forecast:

Sales Value (in Million US\$), 2024-2032

Figure 25: Global: UAV Payload and Subsystems (Applications in Military) Market:

Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: UAV Payload and Subsystems (Applications in Military) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Global: UAV Payload and Subsystems (Applications in Civil) Market: Sales

Value (in Million US\$), 2018 & 2023

Figure 28: Global: UAV Payload and Subsystems (Applications in Civil) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: North America: UAV Payload and Subsystems Market: Sales Value (in

Million US\$), 2018 & 2023

Figure 30: North America: UAV Payload and Subsystems Market Forecast: Sales Value

(in Million US\$), 2024-2032

Figure 31: Asia Pacific: UAV Payload and Subsystems Market: Sales Value (in Million

US\$), 2018 & 2023

Figure 32: Asia Pacific: UAV Payload and Subsystems Market Forecast: Sales Value (in

Million US\$), 2024-2032

Figure 33: Europe: UAV Payload and Subsystems Market: Sales Value (in Million US\$),

2018 & 2023

Figure 34: Europe: UAV Payload and Subsystems Market Forecast: Sales Value (in

Million US\$), 2024-2032

Figure 35: Middle East and Africa: UAV Payload and Subsystems Market: Sales Value

(in Million US\$), 2018 & 2023

Figure 36: Middle East and Africa: UAV Payload and Subsystems Market Forecast:

Sales Value (in Million US\$), 2024-2032

Figure 37: Latin America: UAV Payload and Subsystems Market: Sales Value (in Million

US\$), 2018 & 2023

Figure 38: Latin America: UAV Payload and Subsystems Market Forecast: Sales Value

(in Million US\$), 2024-2032

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