

Asia Pacific Tethered Drone Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Quadcopter and Multicopter), End User (Military and Commercial), Commercial (Energy & Power, Media & Entertainment, Telecom, and Others), and Application (Inspection/Surveying or Mapping, Law Enforcement, Search & Rescue, and Others)

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Abstracts

The Asia Pacific Tethered Drone Market is poised for significant growth, with projections indicating it will reach approximately US\$ 610.0 million by 2031, up from US\$ 101.0 million in 2024. This growth trajectory reflects a remarkable compound annual growth rate (CAGR) of 30.9% from 2025 to 2031, driven by increasing demand for tethered drone technology across various sectors.

Market Overview

The market is segmented into key countries including Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. The region is recognized as one of the fastest-growing markets for tethered drones, largely due to the presence of numerous manufacturers in China and India. Notable advancements in tethered drone technology have been made by companies such as NewSpace Research & Technologies Pvt. Ltd. (NRT) in India, which delivered its first batch of advanced tethered drone solutions to the Indian Army in May 2025. This contract marked a significant milestone in the military's adoption of tethered drones for enhanced operational capabilities.

In China, Skywalker introduced a fixed-wing tethered drone in April 2025, capable of operating over distances of up to 30 kilometers with a fiber-optic connection. This drone, designed for high-speed operations, showcases the technological advancements being

made in the sector.

Applications and Use Cases

Tethered drones are increasingly utilized in various commercial applications, including media and entertainment, sports, and news gathering. They are particularly favored for their ability to provide persistent aerial surveillance, which is crucial for managing complex border regions and urban environments. Government and defense agencies are major adopters of tethered drones, employing them for crowd monitoring, event security, and counterterrorism efforts.

The market is segmented by type, with quadcopters holding the largest share in 2024. In terms of end users, the military sector also dominates, reflecting the strategic importance of tethered drones in defense operations. Within the commercial segment, the telecom industry is the largest user, leveraging tethered drones for various applications.

Growth Opportunities

The demand for tethered drones is expected to surge in sectors such as wind energy, building restoration, and infrastructure maintenance. For instance, tethered drones are invaluable in wind turbine inspections, providing real-time visual data that helps operators quickly identify faults and defects. This capability is essential for maintaining the efficiency of wind farms, which often face challenges in timely fault detection. In building restoration, tethered drones facilitate thorough inspections of historic structures, enabling the identification of areas needing restoration without the extensive time and labor typically required. Similarly, in the maintenance of road and rail bridges, tethered drones offer a fast and cost-effective solution for conducting visual inspections, minimizing disruption to traffic and ensuring safety.

Regional Insights

China is currently the largest market for tethered drones in the Asia Pacific region, supported by a robust local manufacturing base. Companies like Beijing Dagong Technology Co., Ltd. and DJI are at the forefront, with DJI being a global leader in drone technology. Their products, such as the "Matrice" series, are adapted for tethered operations, particularly in public safety and surveillance applications. The military sector in China is also seeing significant developments, with companies creating drones specifically for defense purposes, enhancing national security capabilities.

Competitive Landscape

Key players in the Asia Pacific tethered drone market include Mistral Solutions Pvt. Ltd., Acecore Technologies, Elistair, Fotokite AG, Hoverfly Technologies, Novadem, SKY SAPIENCE, Skyshot Private Limited, Menet Aero (NTP Inc.), and Zenith Aerotech. These companies are actively pursuing strategies such as product innovation, market expansion, and mergers and acquisitions to enhance their offerings and capture a larger market share.

Conclusion

The Asia Pacific tethered drone market is on a robust growth path, driven by technological advancements and increasing applications across various sectors. As the demand for aerial surveillance and inspection capabilities rises, tethered drones are set to play a crucial role in enhancing operational efficiency and safety in numerous industries. The ongoing innovations and strategic initiatives by key players will further propel the market forward, creating a dynamic landscape for the future.

Contents

1. INTRODUCTION

- 1.1 Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macroeconomic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country-level data:

4. TETHERED DRONE MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 Porter's Five Forces Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 List of Vendors in the Value Chain

5. ASIA PACIFIC TETHERED DRONE MARKET - KEY MARKET DYNAMICS

- 5.1 Market Drivers
- 5.2 Market Restraints
- 5.3 Market Opportunities
- 5.4 Future Trends
- 5.5 Impact of Drivers and Restraints:

6. TETHERED DRONE MARKET - ASIA PACIFIC MARKET ANALYSIS

6.1 Asia Pacific Tethered Drone Market Revenue (US\$ Million), 2024 - 2031

6.2 Asia Pacific Tethered Drone Market Forecast and Analysis

7. ASIA PACIFIC TETHERED DRONE MARKET REVENUE ANALYSIS - BY TYPE

7.1 Quadcopter

7.1.1 Overview

7.1.2 Quadcopter: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.2 Multicopter

7.2.1 Overview

7.2.2 Multicopter: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8. ASIA PACIFIC TETHERED DRONE MARKET REVENUE ANALYSIS - BY END USER

8.1 Military

8.1.1 Overview

8.1.2 Military: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.2 Commercial

8.2.1 Overview

8.2.2 Commercial: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9. ASIA PACIFIC TETHERED DRONE MARKET REVENUE ANALYSIS - BY COMMERCIAL

9.1 Energy and Power

9.1.1 Overview

9.1.2 Energy and Power: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.2 Media and Entertainment

9.2.1 Overview

9.2.2 Media and Entertainment: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.3 Telecom

9.3.1 Overview

9.3.2 Telecom: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.4 Others

9.4.1 Overview

9.4.2 Others: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10. ASIA PACIFIC TETHERED DRONE MARKET REVENUE ANALYSIS - BY APPLICATION

10.1 Inspection or Surveying or Mapping

10.1.1 Overview

10.1.2 Inspection or Surveying or Mapping: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.2 Law Enforcement

10.2.1 Overview

10.2.2 Law Enforcement: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.3 Search and Rescue

10.3.1 Overview

10.3.2 Search and Rescue: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.4 Others

10.4.1 Overview

10.4.2 Others: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

11. ASIA PACIFIC TETHERED DRONE MARKET - COUNTRY ANALYSIS

11.1 Asia Pacific

11.1.1 Asia Pacific Tethered Drone Market Revenue and Forecast and Analysis - by Country

11.1.1.1 Asia Pacific Tethered Drone Market Revenue and Forecast and Analysis - by Country

11.1.2.2 Australia: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

11.1.2.2.1 Australia: Asia Pacific Tethered Drone Market Share - by Type

11.1.2.2.2 Australia: Asia Pacific Tethered Drone Market Share - by End User

11.1.2.2.3 Australia: Asia Pacific Tethered Drone Market Share - by Commercial

- 11.1.2.2.4 Australia: Asia Pacific Tethered Drone Market Share - by Application
- 11.2.3.3 China: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
 - 11.2.3.3.1 China: Asia Pacific Tethered Drone Market Share - by Type
 - 11.2.3.3.2 China: Asia Pacific Tethered Drone Market Share - by End User
 - 11.2.3.3.3 China: Asia Pacific Tethered Drone Market Share - by Commercial
 - 11.2.3.3.4 China: Asia Pacific Tethered Drone Market Share - by Application
- 11.3.4.4 India: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
 - 11.3.4.4.1 India: Asia Pacific Tethered Drone Market Share - by Type
 - 11.3.4.4.2 India: Asia Pacific Tethered Drone Market Share - by End User
 - 11.3.4.4.3 India: Asia Pacific Tethered Drone Market Share - by Commercial
 - 11.3.4.4.4 India: Asia Pacific Tethered Drone Market Share - by Application
- 11.4.5.5 Japan: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
 - 11.4.5.5.1 Japan: Asia Pacific Tethered Drone Market Share - by Type
 - 11.4.5.5.2 Japan: Asia Pacific Tethered Drone Market Share - by End User
 - 11.4.5.5.3 Japan: Asia Pacific Tethered Drone Market Share - by Commercial
 - 11.4.5.5.4 Japan: Asia Pacific Tethered Drone Market Share - by Application
- 11.5.6.6 South Korea: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
 - 11.5.6.6.1 South Korea: Asia Pacific Tethered Drone Market Share - by Type
 - 11.5.6.6.2 South Korea: Asia Pacific Tethered Drone Market Share - by End User
 - 11.5.6.6.3 South Korea: Asia Pacific Tethered Drone Market Share - by Commercial
 - 11.5.6.6.4 South Korea: Asia Pacific Tethered Drone Market Share - by Application
- 11.6.7.7 Rest of APAC: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
 - 11.6.7.7.1 Rest of APAC: Asia Pacific Tethered Drone Market Share - by Type
 - 11.6.7.7.2 Rest of APAC: Asia Pacific Tethered Drone Market Share - by End User
 - 11.6.7.7.3 Rest of APAC: Asia Pacific Tethered Drone Market Share - by Commercial
 - 11.6.7.7.4 Rest of APAC: Asia Pacific Tethered Drone Market Share - by Application

12 COMPETITIVE LANDSCAPE

- 12.1 Heat Map Analysis by Key Players
- 12.2 Company Positioning & Concentration

13 INDUSTRY LANDSCAPE

- 13.1 Overview
- 13.2 New Product Development
- 13.3 Merger and Acquisition
- 13.4 Other Strategic Developments

14 COMPANY PROFILES

14.1 Mistral Solutions Pvt. Ltd.

- 14.1.1 Key Facts
- 14.1.2 Business Description
- 14.1.3 Products and Services
- 14.1.4 Financial Overview
- 14.1.5 SWOT Analysis
- 14.1.6 Key Developments

14.2 Acecore Technologies

- 14.2.1 Key Facts
- 14.2.2 Business Description
- 14.2.3 Products and Services
- 14.2.4 Financial Overview
- 14.2.5 SWOT Analysis
- 14.2.6 Key Developments

14.3 Elistair

- 14.3.1 Key Facts
- 14.3.2 Business Description
- 14.3.3 Products and Services
- 14.3.4 Financial Overview
- 14.3.5 SWOT Analysis
- 14.3.6 Key Developments

14.4 Fotokite AG

- 14.4.1 Key Facts
- 14.4.2 Business Description
- 14.4.3 Products and Services
- 14.4.4 Financial Overview
- 14.4.5 SWOT Analysis
- 14.4.6 Key Developments

14.5 Hoverfly Technologies

- 14.5.1 Key Facts
- 14.5.2 Business Description

- 14.5.3 Products and Services
- 14.5.4 Financial Overview
- 14.5.5 SWOT Analysis
- 14.5.6 Key Developments
- 14.6 Novadem
 - 14.6.1 Key Facts
 - 14.6.2 Business Description
 - 14.6.3 Products and Services
 - 14.6.4 Financial Overview
 - 14.6.5 SWOT Analysis
 - 14.6.6 Key Developments
- 14.7 SKY SAPIENCE
 - 14.7.1 Key Facts
 - 14.7.2 Business Description
 - 14.7.3 Products and Services
 - 14.7.4 Financial Overview
 - 14.7.5 SWOT Analysis
 - 14.7.6 Key Developments
- 14.8 Skyshot Private Limited
 - 14.8.1 Key Facts
 - 14.8.2 Business Description
 - 14.8.3 Products and Services
 - 14.8.4 Financial Overview
 - 14.8.5 SWOT Analysis
 - 14.8.6 Key Developments
- 14.9 Menet Aero (NTP Inc.)
 - 14.9.1 Key Facts
 - 14.9.2 Business Description
 - 14.9.3 Products and Services
 - 14.9.4 Financial Overview
 - 14.9.5 SWOT Analysis
 - 14.9.6 Key Developments
- 14.10 Zenith Aerotech
 - 14.10.1 Key Facts
 - 14.10.2 Business Description
 - 14.10.3 Products and Services
 - 14.10.4 Financial Overview
 - 14.10.5 SWOT Analysis
 - 14.10.6 Key Developments

15. APPENDIX

15.1 About The Insight Partners

List Of Tables

LIST OF TABLES

Table 1. Asia Pacific Tethered Drone Market Segmentation

Table 2. List of Vendors

Table 3. Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Table 4. Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 5. Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User

Table 6. Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Commercial

Table 7. Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 8. Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Country

Table 9. Australia: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 10. Australia: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User

Table 11. Australia: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Commercial

Table 12. Australia: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 13. China: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 14. China: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User

Table 15. China: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Commercial

Table 16. China: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 17. India: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 18. India: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User

Table 19. India: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 -

2031 (US\$ Million) - by Commercial

Table 20. India: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 21. Japan: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 22. Japan: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User

Table 23. Japan: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Commercial

Table 24. Japan: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 25. South Korea: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 26. South Korea: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User

Table 27. South Korea: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Commercial

Table 28. South Korea: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 29. Rest of APAC: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 30. Rest of APAC: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User

Table 31. Rest of APAC: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Commercial

Table 32. Rest of APAC: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 33. Heat Map Analysis by Key Players

List Of Figures

LIST OF FIGURES

Figure 1. Asia Pacific Tethered Drone Market Segmentation - Country

Figure 2. Porter's Analysis

Figure 3. Ecosystem: Tethered Drone Market

Figure 4. Asia Pacific Tethered Drone Market - Key Market Dynamics

Figure 5. Impact Analysis of Drivers and Restraints

Figure 6. Asia Pacific Tethered Drone Market Revenue (US\$ Million), 2024 - 2031

Figure 7. Asia Pacific Tethered Drone Market Share (%) - by Type, 2024 and 2031

Figure 8. Quadcopter: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 9. Multicopter: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 10. Asia Pacific Tethered Drone Market Share (%) - by End User, 2024 and 2031

Figure 11. Military: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 12. Commercial: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 13. Asia Pacific Tethered Drone Market Share (%) - by Commercial, 2024 and 2031

Figure 14. Energy and Power: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 15. Media and Entertainment: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 16. Telecom: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 17. Others: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 18. Asia Pacific Tethered Drone Market Share (%) - by Application, 2024 and 2031

Figure 19. Inspection or Surveying or Mapping: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 20. Law Enforcement: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 21. Search and Rescue: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 22. Others: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 -

2031 (US\$ Million)

Figure 23. Asia Pacific Tethered Drone Market Breakdown by Key Countries, 2024 and 2031 (%)

Figure 24. Australia: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 25. China: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 26. India: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 27. Japan: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 28. South Korea: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 29. Rest of APAC: Asia Pacific Tethered Drone Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 30. Company Positioning & Concentration

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