



LTD., ELISTAIR INC, TELEDYNE FLIR LLC, Novadem, SKY-DRONES TECHNOLOGIES LTD

The global [tethered drone market size](#) is experiencing growth due to factors such as an increased spending on defense by governments, rapid adoption of tethered drone in the commercial sector, surge in security concerns across the world, heightened demand for enhanced surveillance owing to the increasing threat of terrorism, and technological advancements in tethered UAVs which offered new opportunities for low altitude satellite surveillance, live streaming events, border patrols, and more. On the other hand, concerns regarding privacy and security and rising competition in aerial imagery restrict the market growth to some extent. Nevertheless, advancements in drone technologies and expanding the connectivity of tethered drones will provide ample growth opportunities in the upcoming years.

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The advanced tethered drone sustains more than eight hours of ultra-long resolution with robust performance. Made of carbon-fiber, it features high ruggedness, compact folding arms, and electric landing gears, and empowering users to overcome any challenge, safely and efficiently. Equipped with advanced transmission system (ATS), the drones have a tether extendable up to 70 meters, allowing for more possibilities for those who demand tethered drones with persistent operation and endurance to perform tasks.

In addition, the tethered drone market has witnessed significant growth in recent years, owing to developments in size, weight and power (SWaP) optimized technologies, which has driven these improvements, allowing smaller man-portable systems more flexible tactical capability. For instance, in January 2022, the statewide Incident Management Assistance Patrol (IMAP) program and the Division of Aviation's Unmanned Aircraft System (UAS) program recently helped develop and deploy the operation of tethered drones from select IMAP vehicles. This helps responders assess incidents, provide situational awareness to the North Carolina Department of Transportation (NCDOT) Statewide Transportation Operations Center (STOC) and Traffic Management centers (TMCs) and assist with overall traffic management of the incidents.

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Moreover, with the increased demand for improved surveillance followed by the growth in threat from terrorism as well as increase in security concerns across the globe have led to increased government expenditure for tethered drones. Tethered drones can carry out stealth operations, function at nights, operate at any location, and are easy to deploy. Such benefits have led to increase in investments by governments to procure and develop a large number of tethered drones globally. For instance, in December 2020, Indian drone manufacturer Aero360 launched its tethered drones, equipped with advanced and robust technologies to reduce the challenges which are faced by government organizations and commercial businesses.

By application, the commercial and recreational segment garnered the major share of more than one-third of the global [tethered drone market revenue](#) in 2021 and is estimated to retain its dominance by 2031. The use of advanced camera modules and acoustic devices on tethered drones raises concerns about the potential invasion of business privacy. These drones have the capability to compromise physical security and gain access to critical infrastructure networks and equipment, enabling the collection of data that may otherwise be out of reach for insurgent groups due to limitations in range. These security concerns have driven the growing adoption of tethered drones as a means to protect the assets and sensitive data of commercial entities, resulting in an increased demand for tethered drone technologies in commercial applications. On the other hand, the telemetry and communication segment is anticipated to witness the fastest CAGR of 6.8% throughout the forecast timeframe. The segment is driven by surge in the launch of latest drone technologies by tethered drone suppliers.

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The regional analysis in the report states that the market across North America was largest in 2021, accounting for nearly one-third of the overall market revenue and is expected to rule the roost throughout the forecast timeframe. The same region is estimated to showcase the fastest CAGR of 6.0% from 2022 to 2031. The growth of the market across the region is driven by improvement programs among the region, multiple military modernization led to adoption of tethered drone systems by the defense and law enforcement agencies across the region. Furthermore, surge in investment by the North American nations drive the expansion of tethered drone system equipment. Additionally, the presence of leading equipment manufacturers across the region propels market growth to some extent.

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