Global Laparoscopy and Endoscopy Devices Market 2023

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Abstracts

The global market for space situational awareness (SSA) services is valued at $126.7 million in 2022 and is projected to reach $151.6 million by 2029, growing at a CAGR of 2.5% from 2023 to 2029. This growth is driven by the increasing deployment of small satellite constellations in low Earth orbit (LEO), leading to congestion and collision risks. Commercial service providers offer SSA capabilities to address these challenges. Demand for SSA services is fueled by collision avoidance needs and enhanced situational awareness. Investments in small and large satellite constellations drive the demand for SSA services. The global SSA services market is driven by factors such as increased LEO satellites, growing space debris clouds, collision avoidance regulations, evolving operational requirements, automation of mission operations, and concerns about signal interference and space weather events. Challenges include the lack of a global regulatory framework, availability of open-source data, expensive customized solutions, and limited demand. Opportunities exist for satellite operators, launch service providers, ground station operators, satellite manufacturers, regulatory agencies, and national space agencies in the global SSA services market.

Market Segmentation
The market is segmented based on various factors, including orbit, service, end user, and region.

Segmentation by Orbit
Low Earth Orbit (LEO)
Medium Earth Orbit (MEO)
Geosynchronous Earth Orbit (GEO)

Segmentation by Service

Mission Operation Support
Collision Avoidance and Tracking
Interference Avoidance
Rendezvous Support
Space Weather

Segmentation by End User
Satellite Operators
Ground Station Service Providers
Launch Service Providers
National Space Agencies
In-Orbit Service Providers
Satellite Manufacturers
Satellite Subsystem and Component Manufacturers

Segmentation by Region
North America
Europe
Asia-Pacific
Rest-of-the-World

During the forecast period, the low Earth orbit (LEO) will dominate the global space situational awareness (SSA) services market. Satellites operating at or below 500 km rely on SSA service providers for effective station-keeping operations due to atmospheric drag and orbital decay. Currently, there are 18.0 thousand satellites operating at altitudes between 501 km and 1,500 km, mostly commercial satellites. This altitude range will remain active, causing increased congestion and potential threats from close proximity operations. Satellite operators at these altitudes are likely to subscribe to commercial SSA services to mitigate collision and signal interference risks. Satellite operators are prominent end users of SSA services as they require satellite location and communication with ground stations. Mission operation support will slightly dominate the global SSA services market during the forecast period. With the growing number of space conjunctions, satellite operators have heightened concerns for safe operations, leading to increased investments in mission operation support and greater demand for SSA services.

North America, particularly the U.S., holds a dominant position in the SSA services market. The U.S. accounts for 81% of global SSA services and is investing in research, development, and regulatory frameworks, solidifying its prominence in the market.

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Competitive Landscape

The selection of profiled companies was based on input from primary experts and an analysis of their coverage, service portfolio, and market penetration. Key companies profiled in this report include AstriaGraph, Astroscale Holdings, Inc., Digantara, D-Orbit SpA, Elecnor Deimos, Electro Optic Systems Pty Ltd, ExoAnalytic Solutions, Inc., GMV Innovating Solutions S.L., Kratos Defense & Security Solutions, Inc., L3 Harris Technologies, Launchspace Technologies Corporation, LeoLabs, Inc., Lockheed Martin Corporation, NorthStar Earth & Space, Inc., Orion Space Solutions, Parsons Corporation, Peraton, Privateer Space, Share My Space, Space Domain Awareness, Inc., Space-Track.Org, Swedish Space Corporation, Vision Engineering Solutions, LLC, and Orbit Recycling.

Recent Industry Developments

Astroscale Holdings, Inc. extended its agreement with the Ministry of Economy, Trade and Industry in April 2022 to develop robotic hand and arm technologies for satellite servicing and space debris removal.

Swedish Space Corporation announced in March 2022 its plans to establish a new office and relocate the Esrange Space Center in Kiruna city center. They aim to launch satellites from the new location starting in 2023.

NorthStar Earth & Space, Inc. partnered with SES S.A. in March 2022 to enhance space sustainability and improve space situational awareness. Their collaboration will help satellite operators avoid collisions and effectively manage their fleets.

In the same month, NorthStar Earth & Space, Inc. also entered into an agreement with Spire Global to develop CubeSat technology with space-based sensors. These CubeSats will collect data for NorthStar's space situational awareness services, aiding space traffic management and safe navigation for satellite operators.

GMV Innovating Solutions S.L. secured a multi-year contract with Eumetsat in February 2022 to provide high-precision optical data services and orbital determination solutions. This will support Eumetsat in precise orbital determination, maneuvering estimation, and ground station calibrations.

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