

Unattended Ground Sensors Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented by Sensor Type (Acoustic Sensors, Seismic Sensors, Magnetic Sensors, Infrared Sensors), By Deployment Type (Fixed Sensors, Mobile Sensors, Portable Sensors) By End-user/Application (Military and Defense, Border Security, Homeland Security, Law Enforcement, Environmental Monitoring, Industrial Facilities, Critical Infrastructure Protection), By Region, By Competition, 2018-2028

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Abstracts

Global Unattended Ground Sensors market has experienced tremendous growth in recent years and is poised to maintain strong momentum through 2028. The market was valued at USD 458.23 million in 2022 and is projected to register a compound annual growth rate of 4.89% during the forecast period.

The global Unattended Ground Sensors market has experienced significant growth over the past years due to rising implementation across multiple industry verticals. UGS solutions have become critical for sectors such as healthcare, pharmaceuticals, and medical devices that require advanced processing capabilities for sterile manufacturing.

Stricter regulatory norms pertaining to cleanroom infrastructure, equipment and operations have compelled these industries to heavily invest in innovative UGS technologies. Features like air showers, airlocks, HVAC systems and sophisticated air filters are now standard in cleanrooms to ensure regulatory adherence and quality

production of sensitive items.

Leading cleanroom solution providers have responded by developing UGS-powered products including real-time monitoring systems, IoT-enabled solutions and automated process controls. This has substantially improved productivity and efficiency. Integrating technologies such as AI, robotics and 3D printing allows for infrastructure development with minimal human intervention, optimizing asset usage.

A major market driver is the rising demand for biologics and new medical treatments. Biopharma firms are collaborating with cleanroom specialists to custom-design facilities for complex biomanufacturing using UGS. Emerging healthcare applications in areas like implants, regenerative medicine and personalized care present market opportunities.

Globally stringent regulations and quality standards governing facilities, equipment and operations are positively impacting continued investments in UGS upgrades and new cleanroom projects. UGS' ability to digitally transform complex bioprocesses ensures strong future prospects.

Key growth factors for the UGS industry are the need for: compliance-focused sterile environments for sensitive production; optimized infrastructure through integrated Industry 4.0 solutions; digitally integrated cleanroom facilities for novel therapy development; and highly automated processing capabilities for emerging therapies. With various supportive trends, the UGS market is well-positioned for sustained expansion.

Key Market Drivers

Increased Focus on Infrastructure Development

The global focus on modernizing infrastructure is a key growth driver for the Unattended Ground Sensors market. Governments worldwide are making large investments to build smart cities, expand 5G networks, develop transportation networks, and improve critical utilities. This infrastructure development drive relies heavily on distributed sensor technologies for remote monitoring, automation, and analytics capabilities.

UGS solutions allow for round-the-clock surveillance of vast infrastructure assets like bridges, tunnels, pipelines, rail lines, cell towers etc. Their ability to transmit real-time data on environmental conditions, structural integrity, resource usage helps optimize

maintenance schedules and reduce downtime. This boosts overall infrastructure efficiency. Furthermore, UGS are vital for implementing smart city IoT networks that power applications like traffic management, waste collection, emergency response.

Leading UGS manufacturers are actively partnering with governments, telecom operators and engineering firms to deploy tailored sensor solutions for various infrastructure projects. For instance, collaborations to install UGS-based perimeter monitoring along critical national borders. The need for digital transformation of ageing infrastructure will sustain investments in advanced UGS over the coming years. The infrastructure sensor market is projected to grow at 8-10% annually through 2025. Rising infrastructure contracts present a significant revenue opportunity for UGS providers.

Adoption of Industry 4.0 Technologies

Industry 4.0 has revolutionized manufacturing through technologies like IoT, AI, cloud and edge computing. A core requirement for the success of Industry 4.0 is real-time data collection from connected devices on the plant floor. This is where Unattended Ground Sensors play a vital role by enabling comprehensive asset and equipment monitoring. UGS help manufacturers implement predictive maintenance, remote diagnostics, quality control and optimize production workflows.

Leading automotive, electronics, machinery and industrial goods companies have widely adopted Industry 4.0 practices. They are leveraging UGS to gain operational visibility, reduce downtime and improve efficiency across manufacturing facilities. The ability of UGS to seamlessly integrate with other Industry 4.0 systems like MES, ERP through open architecture standards is a major advantage. This is driving many manufacturers to upgrade their legacy sensor infrastructure to next-gen UGS.

The global Industry 4.0 market valued at over USD100 billion in 2019 is expected to grow at 15-20% through 2025. As manufacturing becomes more automated, connected and data-driven, demand for supporting technologies like UGS will rise substantially. This makes Industry 4.0 a primary growth accelerator for the UGS industry in the coming years.

Emergence of New Applications

Emerging applications across various sectors present significant opportunities for the Unattended Ground Sensors market. One such area is autonomous vehicles which rely

on distributed sensor networks for functions like collision avoidance, navigation and self-driving. UGS manufacturers are actively working with automakers to develop advanced sensing solutions.

Similarly, the defense and aerospace industry uses UGS for perimeter monitoring, asset tracking and situational awareness. Other promising applications include precision agriculture through soil and crop monitoring, oil & gas pipeline leak detection, anti-poaching operations, and environmental monitoring.

Even consumer-focused areas like smart home security, elderly care and pet tracking are driving new UGS adoption. Startups in these spaces have also accelerated innovation through miniature sensor designs with advanced analytics. As new applications emerge, requirements around miniaturization, low-power operation and wireless connectivity are expanding the UGS product landscape.

The global spending on autonomous vehicles, UAVs and robotics is estimated to cross USD150 billion by 2025. Combined with opportunities across other sectors, new applications ensure continuous demand will fuel mid-teens annual growth of the UGS industry over the next 5 years.

Key Market Challenges

Ensuring Reliability in Harsh Environments

One of the key challenges for UGS providers is designing sensors that can withstand harsh environmental conditions without compromising on reliability and uptime. UGS are often deployed outdoors ... across diverse geographies to monitor critical infrastructure, borders, natural resources etc. This exposes them to extremes of temperature, precipitation, dust, corrosion and other hazards. Sensor malfunctions can prove costly for end-users.

While ruggedized enclosures provide some protection, next-gen UGS require even higher resilience against environmental stressors. Achieving this through innovative materials, sealing technologies ... and embedded processing without significant cost increases is challenging. Ensuring reliable power supply to remote UGS also poses issues due to difficulties in regular maintenance access. Sensor networks spread over large uninhabited areas are more vulnerable to outages.

Moreover, evolving environmental regulations around chemical and material usage

further constrain traditional design approaches. UGS manufacturers invest heavily in R&D to develop highly resilient, self-powered sensors ... through novel solutions like energy harvesting. However, testing and certifying new designs against varied field conditions takes time. This delays the commercialization of advanced environment-proof UGS needed by different verticals.

Overcoming reliability bottlenecks through cutting-edge materials science and engineering innovations will be critical for the UGS industry to unlock new application opportunities. Addressing this challenge can help boost overall sensor deployments and market revenues.

Managing Large Volumes of Streaming Data

The proliferation of connected UGS generating continuous real-time data streams poses a major challenge for efficient data management, storage and analytics. A single large-scale critical infrastructure or ... industrial facility may use thousands of sensors transmitting petabytes of data annually. Moreover, regulatory needs often mandate data archival for several years.

Simply amassing such data volumes is expensive and inefficient. Extracting useful insights from raw sensor information in a timely manner also requires specialized skills and infrastructure. Many organizations lack the expertise to optimize complex edge-cloud workflows for UGS data processing ... at scale. This hampers their ability to fully leverage the benefits of digital transformation through UGS.

UGS vendors must offer comprehensive data management platforms and services tailored for specific industry needs. Edge computing capabilities that deliver filtered, contextualized insights ... near sensors can alleviate core network congestion. Partnerships with analytics firms will help extract maximum value from sensor data. Standardization of data formats and open APIs can accelerate the development of third-party applications as well.

Overcoming data handling challenges is crucial for the UGS industry to sustain the demand fueled by growing deployments and unlock new revenue streams through data monetization. Concerted efforts are needed across the ecosystem to address this challenge.

Key Market Trends

Advancements in Sensor Technology

Continuous innovation is driving significant enhancements to UGS capabilities. Sensors are becoming smaller, more powerful, energy-efficient and cost-effective due to rapid progress in MEMS, semiconductor manufacturing and low-power electronics. Miniaturization is allowing for denser sensor networks with higher spatial resolution.

Advancements like 3D chip stacking, AI chipsets and photonic integrated circuits are further improving computational performance within compact form factors. This enables UGS to support advanced analytics and edge intelligence. Pervasive use of technologies such as low-power Wi-Fi, Bluetooth Low Energy and sub-1GHz radio standards is also enhancing wireless connectivity and range.

Sensors with integrated environmental sensing, energy harvesting and health monitoring are gaining prominence. Novel materials enable multi-parameter measurement through a single sensor. Advancements in sensor fusion, cooperative sensing algorithms and distributed signal processing are delivering more accurate and reliable insights from UGS networks.

Ongoing advancements in sensor technologies will be a defining trend, driving new UGS use cases and applications across multiple industries in the coming years. This will fuel strong demand and help the market reach new heights.

Proliferation of Wireless Underground Sensors

The past decade has seen tremendous growth in wireless underground sensor networks (WUSN) that transmit data using wireless underground communications (WUC). Traditional wired underground sensor installations are being replaced by robust wireless alternatives to eliminate cabling costs and simplify deployments.

Advancements in WUC protocols optimized for soil and ground conditions have enabled reliable long-range underground communications. Self-powered wireless sensors with decades-long battery life are commercially available for applications like border monitoring, pipeline leak detection, and precision agriculture.

Adoption of Edge Intelligence and Predictive Analytics

UGS vendors are increasingly integrating edge-based machine learning and advanced analytics capabilities. Instead of just transmitting raw data, sensors can now apply local

intelligence to filter, process and interpret information. Edge devices support initial classification and anomaly detection to reduce data transfers.

Predictive algorithms using sensor fusion and time-series analysis are also gaining ground. UGS powered by AI and machine learning can now anticipate failures, optimize operations, trigger automated responses and enable predictive maintenance in several industries. This is transforming UGS from simple data generators to intelligent decision-making nodes within IoT networks.

Segmental Insights

Sensor Type Insights

Acoustic sensors dominated the unattended ground sensors market in 2022 and are expected to maintain their dominance during the forecast period. Acoustic sensors held more than 30% share of the overall market in 2022 owing to their widespread usage for perimeter intrusion detection, border monitoring, and infrastructure protection applications. These sensors detect disturbances in the acoustic environment caused by intruders and transmit an alert. They have the ability to identify acoustic signatures of different targets like vehicles, humans, and animals with a high degree of accuracy. Advantages such as low cost, ease of deployment, and ability to operate in all weather conditions have made acoustic sensors the sensor type of choice for many government and commercial end users. Furthermore, ongoing technological advancements are enhancing the capabilities of acoustic sensors. The integration of advanced signal processing, AI/ML, and sensor fusion is allowing acoustic sensors to detect intrusions with higher reliability. Miniaturization is also enabling the deployment of dense acoustic sensor networks for applications requiring spatial monitoring over large areas. Due to their proven effectiveness, established use cases, and continued technology improvements, acoustic sensors are expected to maintain a dominant market share during the forecast period of 2023-2028 despite competition from other emerging sensor types like seismic and magnetic sensors.

Deployment Type Insights

Fixed sensors dominated the unattended ground sensors market by deployment type in 2022 and are expected to maintain their dominance during the forecast period. Fixed sensors accounted for over 60% of the market share in 2022 owing to their extensive use across various critical infrastructure and border security applications. These sensors are permanently installed underground or above ground to monitor designated

areas around the clock without needing redeployment. Their immobile nature allows for reliable continuous surveillance over long periods without requiring maintenance or battery replacements. As a result, fixed sensors are the preferred choice among end-users looking for round-the-clock protection of assets like oil & gas pipelines, power plants, military bases, correctional facilities and international borders. Furthermore, the ability to seamlessly integrate fixed sensors with other security systems through wired or wireless networks provides enhanced situational awareness. Ongoing technological developments are also making fixed sensors more intelligent with edge-processing capabilities. The integration of AI/ML, advanced analytics and sensor fusion is enabling fixed sensors to detect, classify and locate intrusions with higher accuracy. Due to their operational benefits, proven track record, and technology upgrades, fixed sensors are expected to retain the leading market position compared to mobile and portable sensors during the forecast period. However, portable and mobile sensors are gaining traction for applications requiring temporary or mobile surveillance....

Regional Insights

North America dominated the unattended ground sensors market in 2022 and is expected to maintain its dominance during the forecast period. The region accounted for over 40% share of the global market size in 2022 owing to large-scale deployments of UGS across critical infrastructure and border security applications in the US and Canada. North America has been at the forefront of adopting advanced UGS technologies due to growing investments by government agencies like the US Department of Defense, Department of Homeland Security and Canada Border Services Agency. Substantial defense spending, presence of leading UGS manufacturers and system integrators, and stringent regulations have propelled North America's market growth. Furthermore, the region is witnessing an increasing shift towards wireless and IP-based UGS integrated with command-and-control centers for enhanced situational awareness. Ongoing technology advancements are also enabling UGS to detect intrusions and threats with higher accuracy through AI/ML-based analytics. Rising focus on modernizing critical infrastructure, securing oil & gas assets and international borders against evolving threats will continue to drive UGS demand in North America. Additionally, the presence of major end-use verticals like oil & gas and defense industries provide a stable foundation for sustained regional market dominance during the forecast period. However, Asia Pacific is expected to emerge as the fastest growing regional market owing to increasing government initiatives and investments towards smart city development, critical infrastructure and national security.

Key Market Players

Northrop Grumman Corporation

Textron Inc

Elbit Systems Ltd

L3Harris Technologies

Thales Group

Lockheed Martin Corporation

Domo Tactical Communication

Leonardo S.p.A

Cobham plc

Raytheon Technologies

Report Scope:

In this report, the Global Unattended Ground Sensors Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Unattended Ground Sensors Market, By Sensor Type:

Acoustic Sensors

Seismic Sensors

Magnetic Sensors

Infrared Sensors

Unattended Ground Sensors Market, By Deployment Type:

Fixed Sensors

Mobile Sensors

Portable Sensors

Unattended Ground Sensors Market, By End-user/Application:

Military and Defense

Border Security

Homeland Security

Law Enforcement

Environmental Monitoring

Industrial Facilities

Critical Infrastructure Protection

Unattended Ground Sensors Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Unattended Ground Sensors Market.

Available Customizations:

Global Unattended Ground Sensors Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. SERVICE OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMER

5. GLOBAL UNATTENDED GROUND SENSORS MARKET OVERVIEW

6. GLOBAL UNATTENDED GROUND SENSORS MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Sensor Type (Acoustic Sensors, Seismic Sensors, Magnetic Sensors, Infrared Sensors)

6.2.2. By Deployment Type (Fixed Sensors, Mobile Sensors)

6.2.3. By End-user/Application (Military and Defense, Border Security, Homeland Security, Law Enforcement, Environmental Monitoring)

6.2.4. By Region

6.3. By Company (2022)

6.4. Market Map

7. NORTH AMERICA UNATTENDED GROUND SENSORS MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Sensor Type

7.2.2. By Deployment Type

7.2.3. By End-user/Application

7.2.4. By Country

7.3. North America: Country Analysis

7.3.1. United States Unattended Ground Sensors Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Sensor Type

7.3.1.2.2. By Deployment Type

7.3.1.2.3. By End-user/Application

7.3.2. Canada Unattended Ground Sensors Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Sensor Type

7.3.2.2.2. By Deployment Type

7.3.2.2.3. By End-user/Application

7.3.3. Mexico Unattended Ground Sensors Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Sensor Type

- 7.3.3.2.2. By Deployment Type
- 7.3.3.2.3. By End-user/Application

8. EUROPE UNATTENDED GROUND SENSORS MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Sensor Type

8.2.2. By Deployment Type

8.2.3. By End-user/Application

8.2.4. By Country

8.3. Europe: Country Analysis

8.3.1. Germany Unattended Ground Sensors Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Sensor Type

8.3.1.2.2. By Deployment Type

8.3.1.2.3. By End-user/Application

8.3.2. United Kingdom Unattended Ground Sensors Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Sensor Type

8.3.2.2.2. By Deployment Type

8.3.2.2.3. By End-user/Application

8.3.3. Italy Unattended Ground Sensors Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Sensor Type

8.3.3.2.2. By Deployment Type

8.3.3.2.3. By End-user/Application

8.3.4. France Unattended Ground Sensors Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Sensor Type

- 8.3.4.2.2. By Deployment Type
- 8.3.4.2.3. By End-user/Application
- 8.3.5. Spain Unattended Ground Sensors Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Sensor Type
 - 8.3.5.2.2. By Deployment Type
 - 8.3.5.2.3. By End-user/Application

9. ASIA-PACIFIC UNATTENDED GROUND SENSORS MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Sensor Type
 - 9.2.2. By Deployment Type
 - 9.2.3. By End-user/Application
 - 9.2.4. By Country
- 9.3. Asia-Pacific: Country Analysis
 - 9.3.1. China Unattended Ground Sensors Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Sensor Type
 - 9.3.1.2.2. By Deployment Type
 - 9.3.1.2.3. By End-user/Application
 - 9.3.2. India Unattended Ground Sensors Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Sensor Type
 - 9.3.2.2.2. By Deployment Type
 - 9.3.2.2.3. By End-user/Application
 - 9.3.3. Japan Unattended Ground Sensors Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Sensor Type

- 9.3.3.2.2. By Deployment Type
- 9.3.3.2.3. By End-user/Application
- 9.3.4. South Korea Unattended Ground Sensors Market Outlook
 - 9.3.4.1. Market Size & Forecast
 - 9.3.4.1.1. By Value
 - 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Sensor Type
 - 9.3.4.2.2. By Deployment Type
 - 9.3.4.2.3. By End-user/Application
- 9.3.5. Australia Unattended Ground Sensors Market Outlook
 - 9.3.5.1. Market Size & Forecast
 - 9.3.5.1.1. By Value
 - 9.3.5.2. Market Share & Forecast
 - 9.3.5.2.1. By Sensor Type
 - 9.3.5.2.2. By Deployment Type
 - 9.3.5.2.3. By End-user/Application

10. SOUTH AMERICA UNATTENDED GROUND SENSORS MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Sensor Type
 - 10.2.2. By Deployment Type
 - 10.2.3. By End-user/Application
 - 10.2.4. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Unattended Ground Sensors Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Sensor Type
 - 10.3.1.2.2. By Deployment Type
 - 10.3.1.2.3. By End-user/Application
 - 10.3.2. Argentina Unattended Ground Sensors Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Sensor Type

- 10.3.2.2.2. By Deployment Type
- 10.3.2.2.3. By End-user/Application
- 10.3.3. Colombia Unattended Ground Sensors Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Sensor Type
 - 10.3.3.2.2. By Deployment Type
 - 10.3.3.2.3. By End-user/Application

11. MIDDLE EAST AND AFRICA UNATTENDED GROUND SENSORS MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Sensor Type
 - 11.2.2. By Deployment Type
 - 11.2.3. By End-user/Application
 - 11.2.4. By Country
- 11.3. MEA: Country Analysis
 - 11.3.1. South Africa Unattended Ground Sensors Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value
 - 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Sensor Type
 - 11.3.1.2.2. By Deployment Type
 - 11.3.1.2.3. By End-user/Application
 - 11.3.2. Saudi Arabia Unattended Ground Sensors Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Sensor Type
 - 11.3.2.2.2. By Deployment Type
 - 11.3.2.2.3. By End-user/Application
 - 11.3.3. UAE Unattended Ground Sensors Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast

- 11.3.3.2.1. By Sensor Type
- 11.3.3.2.2. By Deployment Type
- 11.3.3.2.3. By End-user/Application
- 11.3.4. Kuwait Unattended Ground Sensors Market Outlook
 - 11.3.4.1. Market Size & Forecast
 - 11.3.4.1.1. By Value
 - 11.3.4.2. Market Share & Forecast
 - 11.3.4.2.1. By Sensor Type
 - 11.3.4.2.2. By Deployment Type
 - 11.3.4.2.3. By End-user/Application
- 11.3.5. Turkey Unattended Ground Sensors Market Outlook
 - 11.3.5.1. Market Size & Forecast
 - 11.3.5.1.1. By Value
 - 11.3.5.2. Market Share & Forecast
 - 11.3.5.2.1. By Sensor Type
 - 11.3.5.2.2. By Deployment Type
 - 11.3.5.2.3. By End-user/Application
- 11.3.6. Egypt Unattended Ground Sensors Market Outlook
 - 11.3.6.1. Market Size & Forecast
 - 11.3.6.1.1. By Value
 - 11.3.6.2. Market Share & Forecast
 - 11.3.6.2.1. By Sensor Type
 - 11.3.6.2.2. By Deployment Type
 - 11.3.6.2.3. By End-user/Application

12. MARKET DYNAMICS

- 12.1. Drivers
- 12.2. Challenges

13. MARKET TRENDS & DEVELOPMENTS

14. COMPANY PROFILES

- 14.1. Northrop Grumman Corporation
 - 14.1.1. Business Overview
 - 14.1.2. Key Revenue and Financials
 - 14.1.3. Recent Developments

- 14.1.4. Key Personnel/Key Contact Person
- 14.1.5. Key Product/Services Offered
- 14.2. Textron Inc
 - 14.2.1. Business Overview
 - 14.2.2. Key Revenue and Financials
 - 14.2.3. Recent Developments
 - 14.2.4. Key Personnel/Key Contact Person
 - 14.2.5. Key Product/Services Offered
- 14.3. Elbit Systems Ltd
 - 14.3.1. Business Overview
 - 14.3.2. Key Revenue and Financials
 - 14.3.3. Recent Developments
 - 14.3.4. Key Personnel/Key Contact Person
 - 14.3.5. Key Product/Services Offered
- 14.4. L3Harris Technologies
 - 14.4.1. Business Overview
 - 14.4.2. Key Revenue and Financials
 - 14.4.3. Recent Developments
 - 14.4.4. Key Personnel/Key Contact Person
 - 14.4.5. Key Product/Services Offered
- 14.5. Thales Group
 - 14.5.1. Business Overview
 - 14.5.2. Key Revenue and Financials
 - 14.5.3. Recent Developments
 - 14.5.4. Key Personnel/Key Contact Person
 - 14.5.5. Key Product/Services Offered
- 14.6. Cobham plc
 - 14.6.1. Business Overview
 - 14.6.2. Key Revenue and Financials
 - 14.6.3. Recent Developments
 - 14.6.4. Key Personnel/Key Contact Person
 - 14.6.5. Key Product/Services Offered
- 14.7. Lockheed Martin Corporation
 - 14.7.1. Business Overview
 - 14.7.2. Key Revenue and Financials
 - 14.7.3. Recent Developments
 - 14.7.4. Key Personnel/Key Contact Person
 - 14.7.5. Key Product/Services Offered
- 14.8. Domo Tactical Communication

- 14.8.1. Business Overview
- 14.8.2. Key Revenue and Financials
- 14.8.3. Recent Developments
- 14.8.4. Key Personnel/Key Contact Person
- 14.8.5. Key Product/Services Offered
- 14.9. Leonardo S.p.A.
 - 14.9.1. Business Overview
 - 14.9.2. Key Revenue and Financials
 - 14.9.3. Recent Developments
 - 14.9.4. Key Personnel/Key Contact Person
 - 14.9.5. Key Product/Services Offered
- 14.10. Raytheon Technologies
 - 14.10.1. Business Overview
 - 14.10.2. Key Revenue and Financials
 - 14.10.3. Recent Developments
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