

Perimeter Intrusion Detection Systems Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, By Component Type (Solution, Services), By Deployment Type (Barrier-Mounted, Ground-Based, Free-Standing, Wide Area Detection, Rapidly Deployable, Others), By Application (Industrial, Commercial, Critical Infrastructure, Military & Defense, and Others), By Region, By Competition, 2019-2029F

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Abstracts

Global Perimeter Intrusion Detection Systems Market was valued at USD 21.05 Billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 15.17% through 2029. Perimeter Intrusion Detection Systems (PIDS) are specialized security solutions designed to detect and alert security personnel to unauthorized intrusions across a defined perimeter. These systems integrate a range of technologies, including sensors, surveillance cameras, motion detectors, and analytics software, to provide comprehensive monitoring and protection of various sites, such as critical infrastructure, military bases, airports, commercial properties, and residential areas. The primary objective of PIDS is to identify potential threats and breaches at the earliest possible stage, thereby enhancing response times and mitigating risks associated with unauthorized access, vandalism, theft, and terrorism.

Key Market Drivers:

Increasing Incidence of Terrorism and Criminal Activities

The escalating incidence of terrorism and criminal activities globally is a primary driver

for the Perimeter Intrusion Detection Systems (PIDS) market. In recent years, there has been a notable rise in sophisticated attacks targeting critical infrastructure, public venues, and private properties. These threats underscore the need for robust security measures capable of detecting and deterring unauthorized access and potential sabotage. Terrorist groups and organized crime syndicates often target high-value sites such as airports, power plants, military installations, and government buildings, seeking to cause maximum disruption and casualties. Consequently, the demand for advanced PIDS has surged, as organizations and governments strive to protect their assets and ensure public safety.

PIDS offer a proactive approach to security, utilizing state-of-the-art technologies like infrared sensors, radar systems, and video analytics to provide real-time monitoring and early warning of potential threats. This capability is crucial in high-risk environments where timely detection and response can prevent catastrophic outcomes. For instance, in the aviation sector, PIDS can detect intrusions along airport perimeters, enabling security personnel to intercept threats before they can affect operations. Similarly, in the energy sector, securing facilities such as nuclear power plants and oil refineries against sabotage is critical, as breaches can have severe environmental and economic consequences.

The heightened threat environment has also prompted regulatory bodies to enforce stringent security standards, further propelling the adoption of PIDS. Governments worldwide have introduced regulations and guidelines mandating enhanced perimeter security for critical infrastructure and high-risk facilities. Compliance with these regulations necessitates the deployment of advanced PIDS, fostering growth in the market. Additionally, public awareness and demand for security have increased, with stakeholders prioritizing investments in cutting-edge security technologies to safeguard their interests.

Rising Need for Securing Critical Infrastructure

The rising need for securing critical infrastructure is another significant driver for the PIDS market. Critical infrastructure encompasses essential facilities and assets that are vital to the functioning of society and the economy, including energy production and distribution networks, water supply systems, transportation hubs, and communication networks. The disruption or destruction of these facilities can have far-reaching consequences, affecting public safety, national security, and economic stability. As the importance of protecting these assets becomes more pronounced, there is a growing emphasis on implementing comprehensive security measures, including PIDS.

PIDS are integral to the security strategies for critical infrastructure, providing continuous surveillance and immediate detection of unauthorized access. These systems employ a combination of sensors, cameras, and analytics to monitor perimeters and detect intrusions, enabling rapid response to potential threats. For example, in the energy sector, PIDS can secure the perimeters of power plants, substations, and pipelines, preventing tampering, theft, or sabotage. In the transportation sector, PIDS protect airports, seaports, and rail networks, ensuring the safety and continuity of operations.

The drive to secure critical infrastructure is further fueled by the increasing complexity and interconnectedness of these systems. Modern infrastructure relies heavily on digital technologies and networks, making them susceptible to both physical and cyber threats. This convergence of physical and digital vulnerabilities necessitates a holistic approach to security, where PIDS play a crucial role. Advanced PIDS can integrate with cybersecurity systems, providing a unified security framework that addresses multiple threat vectors.

Investment in critical infrastructure protection is also supported by government initiatives and funding. Many countries have established dedicated programs and budgets to enhance the security of their critical infrastructure, recognizing its strategic importance. These investments often include the deployment of advanced PIDS, driving market growth. Moreover, public-private partnerships and collaborations between security technology providers and infrastructure operators further stimulate the development and adoption of innovative PIDS solutions.

Advancements in Artificial Intelligence and Machine Learning

Advancements in artificial intelligence (AI) and machine learning (ML) are transforming the PIDS market, driving significant improvements in the detection, analysis, and response capabilities of these systems. AI and ML technologies enable PIDS to process vast amounts of data from multiple sensors and cameras, identify patterns, and differentiate between genuine threats and benign events. This capability reduces false alarms, enhances situational awareness, and ensures that security personnel can focus on real threats, thereby increasing the overall efficiency and effectiveness of perimeter security.

AI-powered PIDS can learn and adapt to the specific characteristics of the monitored environment, improving their accuracy over time. For example, machine learning

algorithms can be trained to recognize the difference between a human intruder and an animal or environmental factor, such as wind-blown debris. This level of sophistication minimizes false positives and ensures timely and appropriate responses to potential intrusions. Additionally, AI can facilitate predictive analytics, allowing PIDS to anticipate and mitigate potential threats before they materialize, further enhancing security.

The integration of AI and ML with PIDS also supports advanced features such as automated threat assessment and decision-making. AI algorithms can analyze real-time data, assess the severity of detected events, and trigger predefined security protocols, such as locking down facilities, alerting security teams, or notifying law enforcement agencies. This automation streamlines the security response process, reducing the time required to address threats and minimizing human error.

AI and ML technologies enable the development of more sophisticated and user-friendly security management platforms. These platforms provide comprehensive dashboards that display real-time information, historical data, and analytics, offering security personnel a holistic view of the perimeter security status. The integration of AI-driven video analytics, for example, enhances the ability to monitor large areas and detect suspicious activities, even in complex and dynamic environments.

The adoption of AI and ML in PIDS is supported by the broader trend towards digital transformation and smart security solutions. As organizations and governments increasingly embrace digital technologies, the demand for AI-enhanced security systems is expected to grow. The continuous advancements in AI and ML research and development further drive innovation in the PIDS market, leading to the introduction of new features and capabilities that address emerging security challenges.

Key Market Challenges

High Cost of Implementation and Maintenance

The high cost associated with the implementation and maintenance of Perimeter Intrusion Detection Systems (PIDS) poses a significant challenge for their widespread adoption. PIDS encompass a wide range of advanced technologies, including high-definition surveillance cameras, radar systems, infrared sensors, and sophisticated analytics software. The initial capital expenditure required to acquire and install these components can be substantial, particularly for large-scale applications such as critical infrastructure, airports, and military installations. Additionally, the costs do not end with installation; ongoing maintenance, software updates, and system upgrades add to the

financial burden. Regular maintenance is crucial to ensure that the systems operate effectively and to minimize false alarms, which can be costly in terms of both resources and personnel time.

The integration of PIDS with existing security infrastructures can be complex and costly. Organizations may need to invest in compatible hardware, software interfaces, and additional training for security personnel to manage and operate the new systems efficiently. This integration often involves a significant outlay for retrofitting older systems and ensuring seamless interoperability between different security components. Small and medium-sized enterprises (SMEs), in particular, may find the financial barriers prohibitive, limiting the adoption of PIDS to larger organizations with substantial security budgets.

To address these cost challenges, vendors and service providers are increasingly exploring innovative business models such as security-as-a-service (SaaS) and leasing options. These models can lower the entry barriers by spreading the costs over time and providing more flexible payment structures. Additionally, advancements in technology are driving down the costs of individual components, making PIDS more affordable. However, the challenge remains significant, particularly in regions with limited financial resources or where security is not seen as a high priority compared to other pressing needs.

Technological Complexity and Integration Issues

The technological complexity and integration issues associated with Perimeter Intrusion Detection Systems (PIDS) represent another formidable challenge. PIDS rely on a multitude of advanced technologies, including various types of sensors (infrared, microwave, seismic), surveillance cameras, and sophisticated analytics software that often incorporate artificial intelligence and machine learning algorithms. Ensuring these diverse technologies work seamlessly together can be highly complex. Each component must communicate effectively with others, and data from multiple sources need to be accurately interpreted and acted upon in real time. The integration of these technologies into a cohesive system that can reliably distinguish between genuine threats and benign activities is a significant technical hurdle.

Existing infrastructures often comprise legacy systems that may not be compatible with new PIDS technologies. Retrofitting these older systems to work with modern PIDS can be challenging and costly, requiring custom interfaces and additional integration work. This complexity is exacerbated in large-scale installations where the perimeter may

cover vast areas with varied environmental conditions, each requiring specific sensor configurations and calibrations. In such scenarios, achieving consistent performance across the entire perimeter is difficult and requires ongoing adjustments and fine-tuning.

Another layer of complexity arises from the need for PIDS to integrate with broader security and operational systems, such as access control, alarm systems, and emergency response protocols. Ensuring interoperability and coordination among these systems is crucial for effective security management but is often fraught with technical challenges. Inadequate integration can lead to system inefficiencies, increased false alarms, and potential security gaps.

To mitigate these challenges, vendors are developing more standardized solutions and offering comprehensive integration services. These efforts aim to simplify the deployment process and ensure compatibility with a wide range of existing systems. Nevertheless, the inherent complexity of PIDS technologies and the need for seamless integration with diverse security infrastructure remain significant barriers to widespread adoption.

Key Market Trends

Integration of Artificial Intelligence and Machine Learning

The integration of Artificial Intelligence (AI) and Machine Learning (ML) into Perimeter Intrusion Detection Systems (PIDS) marks a significant trend that is transforming the landscape of perimeter security. AI and ML technologies enhance the capabilities of PIDS by enabling more precise detection, reducing false alarms, and providing predictive insights that improve overall security operations. Traditional PIDS often rely on predefined rules and thresholds to identify potential intrusions, which can lead to a high rate of false positives due to environmental factors, wildlife, or non-threatening human activities. AI and ML algorithms, however, can learn from historical data, recognize patterns, and differentiate between true threats and benign events with greater accuracy.

One of the primary benefits of incorporating AI and ML into PIDS is the enhancement of threat detection accuracy. These technologies analyze vast amounts of data from various sensors and cameras in real-time, identifying subtle anomalies that might indicate a potential intrusion. For instance, machine learning algorithms can process video footage to detect suspicious behavior patterns, such as loitering or repeated attempts to breach a perimeter, which traditional systems might miss. Additionally, AI-

powered systems can continuously improve their performance by learning from new data, adapting to evolving threat landscapes, and minimizing the likelihood of missing genuine security breaches.

Reducing false alarms is another critical advantage of AI and ML in PIDS. High false alarm rates can lead to alarm fatigue among security personnel, causing real threats to be overlooked. By employing sophisticated data analytics and pattern recognition techniques, AI-driven PIDS can filter out non-threatening events, focusing attention on actual risks. This not only enhances the efficiency of security teams but also optimizes the allocation of resources, ensuring that responses are swift and effective when genuine threats are detected.

AI and ML enable predictive analytics, allowing PIDS to forecast potential security incidents before they occur. By analyzing trends and historical data, these systems can identify vulnerabilities and anticipate possible intrusion attempts, providing security teams with proactive measures to mitigate risks. This shift from reactive to proactive security management represents a paradigm change in how perimeter security is approached, emphasizing prevention over response.

Rise of Wireless and IoT-Enabled PIDS

The rise of wireless and Internet of Things (IoT)-enabled Perimeter Intrusion Detection Systems (PIDS) represents a pivotal trend in the evolution of perimeter security technology. Traditional wired systems, while reliable, often pose significant challenges in terms of installation, maintenance, and scalability. Wireless PIDS, leveraging the power of IoT, offer a more flexible, scalable, and cost-effective solution, making perimeter security more accessible and efficient across various applications.

One of the primary advantages of wireless PIDS is the ease of installation and deployment. Unlike wired systems that require extensive cabling and infrastructure work, wireless systems can be quickly set up with minimal disruption to the existing environment. This is particularly beneficial for temporary or rapidly changing sites such as construction sites, events, and remote locations. Wireless sensors and cameras can be strategically placed and easily relocated as security needs evolve, providing a dynamic and adaptable security solution. Moreover, the reduced need for physical cabling lowers installation costs and minimizes the risk of damage to infrastructure, making wireless PIDS an attractive option for both new and retrofit security projects.

IoT-enabled PIDS take the capabilities of wireless systems further by enabling

seamless connectivity and communication between various devices and the central security management system. IoT sensors can collect and transmit data in real-time, providing a comprehensive and integrated view of the perimeter security landscape. This interconnected network of devices enhances situational awareness, allowing security personnel to monitor and respond to incidents more effectively. For example, if an intrusion is detected by a sensor, the system can automatically activate nearby cameras, trigger alarms, and alert security personnel, ensuring a swift and coordinated response.

Scalability is another significant benefit of wireless and IoT-enabled PIDS. As security requirements grow or change, additional sensors and devices can be easily integrated into the existing network without extensive modifications. This flexibility is crucial for large or complex sites such as industrial facilities, campuses, and critical infrastructure, where security needs may vary across different zones. Wireless systems can also cover larger areas more efficiently, with sensors capable of transmitting data over long distances, ensuring comprehensive perimeter coverage.

Segmental Insights

Component Type Insights

The solution segment held the largest Market share in 2023. The solution segment of the Perimeter Intrusion Detection Systems (PIDS) market is driven by the need for comprehensive, integrated security solutions that address complex and evolving threats to critical infrastructure, commercial properties, and high-security facilities. As security concerns intensify globally, organizations are increasingly seeking sophisticated PIDS that combine various technologies and functionalities into a seamless, unified system. This demand is propelled by several key factors, including advancements in sensor technologies, the integration of artificial intelligence (AI) and machine learning (ML), the rise of the Internet of Things (IoT), and the growing emphasis on proactive security measures.

Advancements in sensor technologies are a significant driver in the solution segment of the PIDS market. Modern PIDS solutions incorporate a range of sensors, including infrared, microwave, seismic, and fiber optic sensors, which provide highly accurate and reliable detection capabilities. These sensors can be tailored to specific environmental conditions and security requirements, offering flexibility and customization for diverse applications. The development of multi-sensor systems, which combine different types of sensors to enhance detection accuracy and reduce false alarms, further drives the

adoption of comprehensive PIDS solutions.

The integration of AI and ML technologies into PIDS solutions represents another critical driver. AI and ML algorithms enhance the analytical capabilities of PIDS by enabling real-time data processing, pattern recognition, and anomaly detection. These technologies help differentiate between genuine threats and benign events, significantly reducing the incidence of false positives. AI-driven analytics provide security personnel with actionable insights and predictive capabilities, enabling more proactive security measures. This shift from reactive to proactive security is a key selling point for integrated PIDS solutions, as it allows organizations to anticipate and mitigate potential threats before they materialize.

The rise of IoT and the proliferation of connected devices also drive the solution segment of the PIDS market. IoT-enabled PIDS solutions offer enhanced connectivity and interoperability, allowing for seamless integration with existing security systems and broader security management platforms. IoT devices collect and transmit data in real-time, providing a comprehensive and continuous view of the security landscape. This interconnected network of devices enhances situational awareness and enables rapid response to security incidents. The scalability and flexibility of IoT-enabled PIDS solutions make them particularly attractive for large and complex sites, such as industrial facilities, airports, and smart cities.

Regional Insights

North America region held the largest Market share in 2023. The market for Perimeter Intrusion Detection Systems (PIDS) in North America is primarily driven by a confluence of factors, including heightened security concerns, stringent regulatory requirements, and advancements in technology. The region's critical infrastructure, encompassing energy facilities, transportation networks, government buildings, and military installations, faces persistent threats from terrorism, cyber-physical attacks, and vandalism. These concerns are exacerbated by increasing geopolitical tensions and the evolving tactics of malicious actors, necessitating robust perimeter security measures. Consequently, both public and private sectors are investing heavily in PIDS to safeguard assets, ensure operational continuity, and protect public safety.

Stringent regulatory frameworks and standards play a crucial role in driving the demand for PIDS in North America. Government mandates, such as the North American Electric Reliability Corporation (NERC) Critical Infrastructure Protection (CIP) standards and the Transportation Security Administration (TSA) guidelines, require entities operating

critical infrastructure to implement comprehensive security measures, including perimeter intrusion detection. Compliance with these regulations not only mitigates legal and financial risks but also enhances the resilience of critical facilities against potential attacks. Additionally, the adoption of the National Institute of Standards and Technology (NIST) Cybersecurity Framework by many organizations underscores the importance of integrating physical and cybersecurity measures, further boosting the market for advanced PIDS solutions.

Technological advancements significantly contribute to the growth of the PIDS market in North America. Innovations in sensor technology, such as fiber-optic sensors, radar, LiDAR, and thermal imaging, have enhanced the accuracy and reliability of intrusion detection. These advanced sensors can operate in various environmental conditions, detect a wide range of intrusion methods, and reduce false alarms, making them ideal for securing expansive and diverse perimeters. Moreover, the integration of artificial intelligence (AI) and machine learning (ML) into PIDS has revolutionized threat detection and response capabilities. AI-powered systems can analyze vast amounts of data in real-time, identify patterns, and differentiate between genuine threats and benign activities, thereby improving operational efficiency and decision-making.

The growing adoption of Internet of Things (IoT) technology in perimeter security is another key driver. IoT-enabled PIDS offer enhanced connectivity and real-time monitoring capabilities, allowing for seamless integration with broader security management systems. This interconnected network of devices enables centralized control and coordination, facilitating rapid response to security incidents. Additionally, IoT-based solutions provide scalability and flexibility, making them suitable for various applications, from urban environments to remote and industrial sites.

Key Market Players

Honeywell International Inc.

Teledyne Technologies Incorporated

Johnson Controls International plc

Carrier Global Corporation

Bosch Sicherheitssysteme GmbH

Senstar Corporation

Perimeter Security Group, LLC

Schneider Electric SE

Report Scope:

In this report, the Global Perimeter Intrusion Detection Systems Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Perimeter Intrusion Detection Systems Market, By Component Type:

Solution

Services

Perimeter Intrusion Detection Systems Market, By Deployment Type:

Barrier-Mounted

Ground-Based

Free-Standing

Wide Area Detection

Rapidly Deployable

Others

Perimeter Intrusion Detection Systems Market, By Application:

Industrial

Commercial

Critical Infrastructure

Military & Defense

Others

Perimeter Intrusion Detection Systems Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

South America

Brazil

Argentina

Colombia

Chile

Peru

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Perimeter Intrusion Detection Systems Market.

Available Customizations:

Global Perimeter Intrusion Detection Systems 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. PRODUCT 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 PERIMETER INTRUSION DETECTION SYSTEMS MARKET OVERVIEW

6. GLOBAL PERIMETER INTRUSION DETECTION SYSTEMS MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Component Type (Solution, Services)
 - 6.2.2. By Deployment Type (Barrier-Mounted, Ground-Based, Free-Standing, Wide

Area Detection, Rapidly Deployable, Others)

6.2.3. By Application (Industrial, Commercial, Critical Infrastructure, Military & Defense, and Others)

6.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

6.3. By Company (2023)

6.4. Market Map

7. NORTH AMERICA PERIMETER INTRUSION DETECTION SYSTEMS MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Component Type

7.2.2. By Deployment Type

7.2.3. By Application

7.2.4. By Country

7.3. North America: Country Analysis

7.3.1. United States Perimeter Intrusion Detection Systems 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 Component Type

7.3.1.2.2. By Deployment Type

7.3.1.2.3. By Application

7.3.2. Canada Perimeter Intrusion Detection Systems 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 Component Type

7.3.2.2.2. By Deployment Type

7.3.2.2.3. By Application

7.3.3. Mexico Perimeter Intrusion Detection Systems 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 Component Type

7.3.3.2.2. By Deployment Type

7.3.3.2.3. By Application

8. EUROPE PERIMETER INTRUSION DETECTION SYSTEMS MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Component Type

8.2.2. By Deployment Type

8.2.3. By Application

8.2.4. By Country

8.3. Europe: Country Analysis

8.3.1. Germany Perimeter Intrusion Detection Systems 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 Component Type

8.3.1.2.2. By Deployment Type

8.3.1.2.3. By Application

8.3.2. France Perimeter Intrusion Detection Systems 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 Component Type

8.3.2.2.2. By Deployment Type

8.3.2.2.3. By Application

8.3.3. United Kingdom Perimeter Intrusion Detection Systems 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 Component Type

8.3.3.2.2. By Deployment Type

8.3.3.2.3. By Application

8.3.4. Italy Perimeter Intrusion Detection Systems 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 Component Type

8.3.4.2.2. By Deployment Type

- 8.3.4.2.3. By Application
- 8.3.5. Spain Perimeter Intrusion Detection Systems 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 Component Type
 - 8.3.5.2.2. By Deployment Type
 - 8.3.5.2.3. By Application
- 8.3.6. Belgium Perimeter Intrusion Detection Systems Market Outlook
 - 8.3.6.1. Market Size & Forecast
 - 8.3.6.1.1. By Value
 - 8.3.6.2. Market Share & Forecast
 - 8.3.6.2.1. By Component Type
 - 8.3.6.2.2. By Deployment Type
 - 8.3.6.2.3. By Application

9. SOUTH AMERICA PERIMETER INTRUSION DETECTION SYSTEMS MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Component Type
 - 9.2.2. By Deployment Type
 - 9.2.3. By Application
 - 9.2.4. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Perimeter Intrusion Detection Systems 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 Component Type
 - 9.3.1.2.2. By Deployment Type
 - 9.3.1.2.3. By Application
 - 9.3.2. Colombia Perimeter Intrusion Detection Systems 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 Component Type

- 9.3.2.2.2. By Deployment Type
- 9.3.2.2.3. By Application
- 9.3.3. Argentina Perimeter Intrusion Detection Systems 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 Component Type
 - 9.3.3.2.2. By Deployment Type
 - 9.3.3.2.3. By Application
- 9.3.4. Chile Perimeter Intrusion Detection Systems 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 Component Type
 - 9.3.4.2.2. By Deployment Type
 - 9.3.4.2.3. By Application
- 9.3.5. Peru Perimeter Intrusion Detection Systems 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 Component Type
 - 9.3.5.2.2. By Deployment Type
 - 9.3.5.2.3. By Application

10. MIDDLE EAST & AFRICA PERIMETER INTRUSION DETECTION SYSTEMS MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Component Type
 - 10.2.2. By Deployment Type
 - 10.2.3. By Application
 - 10.2.4. By Country
- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. Saudi Arabia Perimeter Intrusion Detection Systems 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 Component Type
- 10.3.1.2.2. By Deployment Type
- 10.3.1.2.3. By Application
- 10.3.2. UAE Perimeter Intrusion Detection Systems 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 Component Type
 - 10.3.2.2.2. By Deployment Type
 - 10.3.2.2.3. By Application
- 10.3.3. South Africa Perimeter Intrusion Detection Systems 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 Component Type
 - 10.3.3.2.2. By Deployment Type
 - 10.3.3.2.3. By Application
- 10.3.4. Turkey Perimeter Intrusion Detection Systems Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Component Type
 - 10.3.4.2.2. By Deployment Type
 - 10.3.4.2.3. By Application
- 10.3.5. Israel Perimeter Intrusion Detection Systems Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Component Type
 - 10.3.5.2.2. By Deployment Type
 - 10.3.5.2.3. By Application

11. ASIA PACIFIC PERIMETER INTRUSION DETECTION SYSTEMS MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Component Type

- 11.2.2. By Deployment Type
- 11.2.3. By Application
- 11.2.4. By Country
- 11.3. Asia-Pacific: Country Analysis
 - 11.3.1. China Perimeter Intrusion Detection Systems 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 Component Type
 - 11.3.1.2.2. By Deployment Type
 - 11.3.1.2.3. By Application
 - 11.3.2. India Perimeter Intrusion Detection Systems 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 Component Type
 - 11.3.2.2.2. By Deployment Type
 - 11.3.2.2.3. By Application
 - 11.3.3. Japan Perimeter Intrusion Detection Systems 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 Component Type
 - 11.3.3.2.2. By Deployment Type
 - 11.3.3.2.3. By Application
 - 11.3.4. South Korea Perimeter Intrusion Detection Systems 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 Component Type
 - 11.3.4.2.2. By Deployment Type
 - 11.3.4.2.3. By Application
 - 11.3.5. Australia Perimeter Intrusion Detection Systems 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 Component Type
 - 11.3.5.2.2. By Deployment Type
 - 11.3.5.2.3. By Application

11.3.6. Indonesia Perimeter Intrusion Detection Systems 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 Component Type

11.3.6.2.2. By Deployment Type

11.3.6.2.3. By Application

11.3.7. Vietnam Perimeter Intrusion Detection Systems Market Outlook

11.3.7.1. Market Size & Forecast

11.3.7.1.1. By Value

11.3.7.2. Market Share & Forecast

11.3.7.2.1. By Component Type

11.3.7.2.2. By Deployment Type

11.3.7.2.3. By Application

12. MARKET DYNAMICS

12.1. Drivers

12.2. Challenges

13. MARKET TRENDS AND DEVELOPMENTS

14. COMPANY PROFILES

14.1. Honeywell International Inc.

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. Teledyne Technologies Incorporated

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. Johnson Controls International plc

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. Carrier Global Corporation
 - 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. Bosch Sicherheitssysteme GmbH
 - 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. Senstar Corporation
 - 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. Perimeter Security Group, LLC
 - 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. Schneider Electric SE
 - 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

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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