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Threat Detection Systems Market Forecasts to 2032 – Global Analysis By Product (Personal Radiation Detectors, Dosimeters, Photo Ionization Detectors (PID), Chemical Agent Detectors, Biological Agent Detectors, Laser Systems & Radar Systems and Other Products), Type (Cybersecurity Threats and Advanced Persistent Threats (APT)), Component, Technology, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Threat Detection Systems Market is accounted for $92.5 billion in 2025 and is expected to reach $134.5 billion by 2032 growing at a CAGR of 5.5% during the forecast period. Threat detection systems are cybersecurity solutions designed to identify, analyze, and respond to potential threats across digital environments. These systems monitor network traffic, endpoints, and user behavior to detect anomalies or malicious activity. Leveraging threat intelligence, machine learning, and real-time analytics, they enable early identification of cyberattacks, including malware, phishing, and unauthorized access. Integrated with response mechanisms, they help contain and mitigate risks before damage occurs.

According to a 2022 report in Homeland Security Today, advanced millimeter-wave scanners deployed at major airports can screen passengers in under 2 seconds, while reducing false alarm rates by around 50% compared to older systems.

Market Dynamics:

Driver:

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Escalating cyber threats and advanced persistent threats

As digital transformation accelerates, organizations face heightened exposure to sophisticated attacks that operate stealthily over extended periods. These evolving threats necessitate robust detection frameworks that can respond to subtle anomalies in real time. Governments and enterprises are boosting investments in cybersecurity tools capable of uncovering latent threats before damage escalates. This urgency to shield digital assets from disruptive campaigns is a primary factor fueling global demand for advanced detection platforms.

Restraint:

Evolving threat landscape and zero-day exploits

Threat actors continuously adapt their tactics, often bypassing conventional security layers. Zero-day vulnerabilities, which exploit previously unknown flaws, are especially difficult to detect without predictive intelligence. Keeping pace with these rapid changes demands constant system updates and skilled response teams—raising operational burdens. The dynamic nature of threats thereby challenges the long-term effectiveness of static detection models and puts pressure on vendors to innovate at speed.

Opportunity:

Expansion in managed security services (MSS) and XDR

MSS providers offer end-to-end threat monitoring, analysis, and incident response—allowing enterprises to focus on core operations. Simultaneously, the adoption of extended detection and response (XDR) platforms is accelerating, as these solutions unify threat visibility across endpoints, networks, and cloud environments. This convergence enhances threat correlation and reduces response time. Vendors that offer flexible, scalable detection solutions with AI-powered analytics stand to benefit immensely from this trend.

Threat:

Regulatory overreach or inconsistent standards

n some cases, excessive regulatory requirements may impose technical constraints or

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delay the deployment of detection systems. Lack of harmonization among standards can confuse implementation strategies, especially for multinational organizations. Moreover, over-regulation may divert focus from innovation to compliance, affecting product agility. These governance-related hurdles could pose risks to market fluidity and slow the adoption curve in sectors already burdened by high compliance costs.

Covid-19 Impact:

The COVID-19 pandemic had a transformative impact on threat detection strategies. With the sudden shift to remote work, organizational perimeters dissolved, dramatically widening attack surfaces. Cyber adversaries exploited this transition by launching targeted phishing campaigns, ransomware attacks, and credential theft. In response, companies accelerated the adoption of cloud-based and AI-enabled detection systems to protect distributed endpoints.

The personal radiation detectors segment is expected to be the largest during the forecast period

The personal radiation detectors segment is expected to account for the largest market share during the forecast period due to their critical role in national security, emergency response, and industrial safety. These compact systems enable real-time monitoring of radioactive exposure, making them indispensable for personnel in defense, nuclear, and hazardous material sectors. Their portability, ease of deployment, and integration with mobile platforms add to their widespread adoption.

The advanced persistent threats (APT) segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the advanced persistent threats (APT) segment is predicted to witness the highest growth rate as organizations confront increasingly stealthy and targeted cyber attacks. Unlike conventional malware, APTs are highly customized and capable of remaining undetected for extended periods while extracting sensitive data. This has prompted heightened investment in behavioral analytics and AI-based detection tools designed to monitor for anomalies across diverse IT assets.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share attributed to its advanced cybersecurity infrastructure and high-profile

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threat exposure. The region boasts a strong ecosystem of cybersecurity vendors, research institutions, and government funding initiatives focused on national defense and digital resilience. Enterprises across finance, healthcare, and telecom are investing heavily in next-gen detection solutions. The presence of key market players and aggressive technological deployment ensure continued regional leadership.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR due to its escalating cybersecurity challenges, driven by digital expansion and cross-border data exchanges. Countries like India, China, and South Korea are experiencing a surge in cyber incidents, prompting governments and private sectors to strengthen detection capabilities. Increased investments in smart city infrastructure, 5G rollout, and industrial IoT have heightened demand for integrated security systems.

Key players in the market

Some of the key players in Threat Detection Systems Market include Raytheon Technologies, Thales Group, Honeywell International Inc., Northrop Grumman Corporation, BAE Systems, L3Harris Technologies, General Dynamics Mission Systems, Lockheed Martin Corporation, Varex Imaging Corporation, Smiths Group plc, DetectaChem LLC, Chemring Group PLC, Astrophysics Inc., OSI Systems, Inc., Leidos Holdings, Inc., Rapiscan Systems and FLIR Systems.

Key Developments:

In June 2025, Thales and Norway’s Kongsberg formed a 50/50 joint venture to combine secure communications and cryptographic expertise, employing ~350 staff. The venture aims to bolster NATO interoperability and future defense communications capabilities

In May 2025, Raytheon, alongside partner RAM-Systems GmbH, delivered the 250th RAM MK49 missile launcher to the U.S. Navy for deployment aboard USS Pittsburgh. The milestone underscores the program’s consistency and incremental fleet integration.

Products Covered:

Personal Radiation Detectors

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- Dosimeters
- Photo Ionization Detectors (PID)
- Chemical Agent Detectors
- Biological Agent Detectors
- Laser Systems & Radar Systems
- Video Surveillance Systems
- Perimeter Intrusion Detection Systems
- Wideband Wireless Communication Systems
- Biometric Systems
- Other Products

Types Covered:

- Cybersecurity Threats
- Advanced Persistent Threats (APT)

Components Covered:

- Hardware
- Software
- Services

Technologies Covered:

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Artificial Intelligence (AI) & Machine Learning (ML)

Big Data Analytics

Blockchain for Threat Intelligence Sharing

IoT & Smart Sensors

Other Technologies

Applications Covered:

Network Security

Endpoint Security

Application Security

Perimeter Security

Critical Infrastructure Protection

Airport & Border Security

Maritime & Port Security

Military & Defense Surveillance

Public Safety & Smart Cities

Other Applications

End Users Covered:

Government & Homeland Security

Defense & Military

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- Transportation (Airports, Railways, Ports)
- Banking, Financial Services & Insurance (BFSI)
- Energy & Utilities
- Healthcare
- IT & Telecom
- Manufacturing
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe

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- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific
- South America
  - Argentina
  - Brazil
  - Chile
  - Rest of South America
- Middle East & Africa
  - Saudi Arabia
  - UAE
  - Qatar
  - South Africa
  - Rest of Middle East & Africa

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What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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