

Security Robots Global Market Report 2025 | Business Growth, Development Factors, Current and Future Trends till 2029

*The Business Research Company's
Security Robots Global Market Report
2025 – Market Size, Trends, And Forecast
2025-2034*

LONDON, GREATER LONDON, UNITED
KINGDOM, December 3, 2025
/EINPresswire.com/ -- How Much Is The
[Security Robots Market](#) Worth?

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In the past few years, there has been a rapid escalation in the size of the security robots market. Its growth is projected to surge from \$17.33 billion in 2024 to \$20.49 billion in 2025, indicating a compound annual growth rate (CAGR) of 18.3%. Several factors have contributed to the growth seen in the historic period, including a rising need for autonomous surveillance, the increasing

use of AI-based robotic platforms, a heightened demand for advanced security of facilities, an escalated use across defense bases, and an uptick in security-related threats in vital infrastructures.

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The market for security robots is projected to experience significant expansion in the upcoming years, with an expected value of \$39.60 billion by 2029, reflecting a compound annual growth rate (CAGR) of 17.9%. The growth during the predicted period is characterized by an increase in the use of security robots in commercial areas, a surge in the demand for unattended security solutions,

augmented uses for remote observation and patrolling, an expansion in the application of AI-directed video analytics, and a growing inclination towards round-the-clock autonomous security. The upcoming period is also set to witness major trends including developments in autonomous navigation technology, innovations in the fusion of multiple sensors, a surge in research and developmental activities in AI-enabled robotic technologies, and the creation of sophisticated humanoid security robots.

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What Are The Factors Driving The Security Robots Market?

The escalating maritime hazards like piracy, smuggling, and illicit fishing are predicted to drive the expansion of the security robots market. Maritime dangers like these constitute illegal activities in both territorial and international waters that pose a risk to maritime security, disrupt shipping lanes, and violate international regulations through the exploitation of marine resources. These threats are exacerbated by insufficient maritime surveillance and law enforcement in vast ocean regions, leading to operational blind spots where criminals can operate unseen and avoid regulation, thereby perpetuating and intensifying such unlawful activities. Security robots are a solution to escalating maritime threats, as they provide ongoing, autonomous monitoring and contribute to heightened situational awareness, and assist in law enforcement operations with advanced detection, tracking, and communication functions in difficult maritime conditions. For example, the International Chamber of Commerce International Maritime Bureau, a piracy monitor based in France, reported in December 2023 that there were 120 piracy and armed robberies against ships in 2023 versus 115 incidents in 2022, which included 105 vessels being boarded and four vessels hijacked. Hence, the growing need to combat increasing maritime threats like piracy, smuggling, and illegal fishing is fueling the growth of the security robots market.

Who Are The Major Players In The Security Robots Market?

Major players in the Security Robots Global Market Report 2025 include:

- Hitachi Ltd.
- Lockheed Martin Corporation
- Honeywell
- BAE Systems Plc
- Sharp Robotics Business Development
- Thales Group
- Leonardo S.P.A.
- Elbit Systems Ltd
- SAAB
- Yokogawa Electric Corporation

What Are The Key Trends And Market Opportunities In The Security Robots Sector?

Leading enterprises involved in the security robots sector are honing in on tech breakthroughs such as independent mobile security patrol robots to boost threat detection in real-time, advance situational understanding, and provide more proactive, automated security operations. Advanced autonomous mobile security patrol robots are self-directed robotic systems engineered to perform security patrolling tasks on their own, utilizing artificial intelligence, superior sensors, and real-time threat analysis without the need for human involvement. For example, Robotic Assistance Devices, Inc., an AI-driven U.S. corporation offering robotic and AI-infused security and surveillance solutions, revealed the ROAMEO Generation 4 in February

2025, regarded as one of the most cutting-edge autonomous mobile security patrol robots in present times. The Gen 4 platform amalgamates AI-powered situational awareness, SARA-enabled interactive participation, a 360-degree sensing structure, improved safety mechanisms, and real-time threat analysis to mitigate coverage shortcomings, improve operational cost-effectiveness, and advance the new age of proactive autonomous security operations.

Which Segment Accounted For The Largest [Security Robots Market Share](#)?

The security robots market covered in this report is segmented –

- 1) By Type: Unmanned Aerial Vehicle (UAV), Unmanned Ground Vehicle (UGV), Unmanned Underwater Vehicle (UUV)
- 2) By Component: Hardware, Software And AI Stack, Services
- 3) By Environment: Indoor, Outdoor
- 4) By Application: Demining, Explosive Detection, Fire Fighting, Patrolling And Surveillance, Rescuing Operations, Spying, Other Applications
- 5) By Industry Vertical: Chemical And Mining, Defense And Aerospace, Entertainment And Leisure Venues, Oil And Gas, Logistics, Other Industry Verticals

Subsegments:

- 1) By Unmanned Aerial Vehicle: Fixed Wing, Rotary Wing, Hybrid Wing
- 2) By Unmanned Ground Vehicle: Wheeled, Tracked, Legged, Hybrid
- 3) By Unmanned Underwater Vehicle: Remotely Operated Vehicle, Autonomous Underwater Vehicle, Hybrid Underwater Vehicle

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What Are The Regional Trends In The Security Robots Market?

In 2024, the Security Robots Global Market Report 2025 reported that North America was the foremost region. It is forecasted that the Asia-Pacific region will experience the most rapid growth during the projection period. The report includes data on regions such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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