

Global Environmental Monitoring Robot Market Growth 2026-2032

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Abstracts

The global Environmental Monitoring Robot market size is predicted to grow from US\$ 1554 million in 2025 to US\$ 3564 million in 2032; it is expected to grow at a CAGR of 12.7% from 2026 to 2032.

In 2025, global Environmental Monitoring Robots production reached approximately 0.16 million units, with an average global market price of around US\$ 10,000 per unit. Annual production capacity is 0.2 million units. Gross Profit Margin: 39%. Environmental monitoring robots are intelligent systems that integrate sensors, autonomous navigation, communication, and data analytics to collect real-time environmental data in complex or hazardous conditions. Upstream includes sensors, chips, and modules from companies like Texas Instruments and STMicroelectronics; midstream is robot OEMs such as DJI and ABB integrating hardware + AI; downstream covers government, industrial, and smart city users deploying robots for real-time environmental monitoring and data services. The market is moving from selling robots ? selling data services. Hardware will commoditize, while value shifts to AI analytics and recurring SaaS models, with China strong in hardware and the U.S./EU leading in software.

United States market for Environmental Monitoring Robot is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Environmental Monitoring Robot is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Environmental Monitoring Robot is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Environmental Monitoring Robot players cover DJI (Private, China), Teledyne Technologies (NYSE: TDY, USA), Xylem (NYSE: XYL, USA), Kongsberg Gruppen (OSE: KOG, Norway), ABB (SIX: ABBN, Switzerland), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Environmental Monitoring Robot Industry Forecast" looks at past sales and reviews total world Environmental Monitoring Robot sales in 2025, providing a comprehensive analysis by region and market sector of projected Environmental Monitoring Robot sales for 2026 through 2032. With Environmental Monitoring Robot sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Environmental Monitoring Robot industry.

This Insight Report provides a comprehensive analysis of the global Environmental Monitoring Robot landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Environmental Monitoring Robot portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Environmental Monitoring Robot market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Environmental Monitoring Robot and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Environmental Monitoring Robot.

This report presents a comprehensive overview, market shares, and growth opportunities of Environmental Monitoring Robot market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

UAV (Aerial)

UGV (Ground)

Marine (ROV/AUV/USV)

Segmentation by Sensor:

Gas sensors (CO₂, NO_x, VOCs)

Optical / LiDAR / hyperspectral

Radiation & chemical sensors

Segmentation by Communication Technology:

4G/5G

Satellite

Mesh / IoT networks

Segmentation by Application:

Government

Industrial

Agriculture

Research institutions

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

DJI (Private, China)

Teledyne Technologies (NYSE: TDY, USA)

Xylem (NYSE: XYL, USA)

Kongsberg Gruppen (OSE: KOG, Norway)

ABB (SIX: ABBN, Switzerland)

Trimble (NASDAQ: TRMB, USA)

Boston Dynamics (Private, USA)

Skydio (Private, USA)

Wuhan Easy-Sight Technology (SZSE-listed subsidiary, China)

Zhejiang ULIRVISION Technology (Private, China)

Autel Robotics (Private, China)

XAG (XAircraft) (Private, China)

Siasun Robot & Automation (SZSE: 300024, China)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Environmental Monitoring Robot market?

What factors are driving Environmental Monitoring Robot market growth, globally and by

region?

Which technologies are poised for the fastest growth by market and region?

How do Environmental Monitoring Robot market opportunities vary by end market size?

How does Environmental Monitoring Robot break out by Type, by Application?

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