

# Global Inspection & Surveillance Robots Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Inspection & Surveillance Robots market size is expected to reach \$ 8189 million by 2032, rising at a market growth of 13.6% CAGR during the forecast period (2026-2032).

In 2025, global Inspection & Surveillance Robots production reached approximately 0.54 million units, with an average global market price of around US\$ 6000 per unit. Annual production capacity is 0.7 million units. Gross Profit Margin: 40%. Inspection & surveillance robots are autonomous or remotely operated robotic systems designed to monitor, inspect, and assess environments, assets, or infrastructure without direct human presence. They use sensors such as cameras, LiDAR, thermal imaging, ultrasonic, and gas detectors to collect real-time data, enabling safer, more efficient inspection and continuous surveillance in hazardous, remote, or large-scale areas. The inspection & surveillance robots industry chain consists of upstream suppliers providing key components like sensors, cameras, LiDAR, motors, controllers, and AI software; midstream manufacturers and integrators who design, assemble, and program the robotic platforms; and downstream end users in industries such as oil & gas, energy, infrastructure, manufacturing, and defense, supported by installation, maintenance, and software update services. Inspection and surveillance robots are becoming essential tools for safety, efficiency, and risk reduction in industrial and security applications. As AI, sensor technology, and autonomous navigation improve, these robots are shifting from supplementary tools to core operational assets, enabling continuous monitoring in hazardous or hard-to-reach environments while reducing human exposure and operational costs.

This report studies the global Inspection & Surveillance Robots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Inspection & Surveillance Robots and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Inspection & Surveillance Robots that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Inspection & Surveillance Robots total production and demand, 2021-2032, (K Units)

Global Inspection & Surveillance Robots total production value, 2021-2032, (USD Million)

Global Inspection & Surveillance Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Inspection & Surveillance Robots consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Inspection & Surveillance Robots domestic production, consumption, key domestic manufacturers and share

Global Inspection & Surveillance Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Inspection & Surveillance Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Inspection & Surveillance Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Inspection & Surveillance Robots market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Cognex Corporation (NASDAQ: CGNX, USA), Keyence Corporation (TYO: 6861, Japan), Teledyne Technologies (NYSE: TDY, USA), Omron Corporation (TYO: 6645, Japan), ABB Ltd (SIX: ABBN & NYSE: ABB, Switzerland), FANUC Corporation (TYO: 6954, Japan), Mitsubishi Electric (TYO: 6503, Japan), Yaskawa Electric (TYO: 6506, Japan), Siemens AG (ETR: SIE, Germany), Rockwell Automation (NYSE: ROK, USA), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World Inspection & Surveillance Robots market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### **Global Inspection & Surveillance Robots Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### **Global Inspection & Surveillance Robots Market, Segmentation by Type:**

Ground Robots (UGVs)

Aerial Drones (UAVs)

Underwater Robots (ROVs/AUVs)

Hybrid & Multi-terrain Robots

## Global Inspection & Surveillance Robots Market, Segmentation by Technology:

Vision-based Robots (cameras, thermal imaging)

Sensor-based Robots (LiDAR, ultrasonic, gas)

AI-Integrated Inspection Robots

Tele-operated / Remote-Controlled Robots

## Global Inspection & Surveillance Robots Market, Segmentation by Application:

Oil & Gas

Energy & Utilities

Defense & Security

Manufacturing & Heavy Industry

Transportation & Logistics

## Companies Profiled:

Cognex Corporation (NASDAQ: CGNX, USA)

Keyence Corporation (TYO: 6861, Japan)

Teledyne Technologies (NYSE: TDY, USA)

Omron Corporation (TYO: 6645, Japan)

ABB Ltd (SIX: ABBN & NYSE: ABB, Switzerland)

FANUC Corporation (TYO: 6954, Japan)

Mitsubishi Electric (TYO: 6503, Japan)

Yaskawa Electric (TYO: 6506, Japan)

Siemens AG (ETR: SIE, Germany)

Rockwell Automation (NYSE: ROK, USA)

Knightscope Inc (NASDAQ: KSCP, USA)

AeroVironment Inc (NASDAQ: AVAV, USA)

Siasun Robot & Automation Co., Ltd. (SZSE: 300024, China)

Shenzhen Inovance Technology Co., Ltd. (CSI: A50, China)

UBtech Robotics Inc. (HKEX: 9880, China)

AgiBot (Shanghai Zhiyuan Innovation Tech, Private, China)

### **Key Questions Answered:**

1. How big is the global Inspection & Surveillance Robots market?
2. What is the demand of the global Inspection & Surveillance Robots market?
3. What is the year over year growth of the global Inspection & Surveillance Robots market?
4. What is the production and production value of the global Inspection & Surveillance Robots market?
5. Who are the key producers in the global Inspection & Surveillance Robots market?
6. What are the growth factors driving the market demand?

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