

Global Surgical Smoke Exposure Monitoring Devices Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G0D01BCF71D8EN.html>

Date: June 2026

Pages: 109

Price: US\$ 4,480.00 (Single User License)

ID: G0D01BCF71D8EN

Abstracts

The global Surgical Smoke Exposure Monitoring Devices market size is expected to reach \$ 528 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

Surgical Smoke Exposure Monitoring Devices refer to integrated systems including smoke evacuation units, electrostatic precipitators, inline filters, and real-time particulate sensors designed to capture, filter, and monitor aerosolized particles generated during electrosurgery, laser surgery, and ultrasonic dissection. Unlike passive fume hoods, these active systems employ technologies such as electrostatic precipitation, ultra-low particulate air filtration, and real-time particle counting to remove surgical smoke at the source, protecting operating room personnel from exposure to hazardous bioaerosols, volatile organic compounds, and potentially infectious viral particles. Ultravision, for instance, uses electrostatic precipitation to remove particulates as small as 0.007µm smaller than any known virus from the atmosphere without requiring CO₂ exchange. From a value chain perspective, upstream includes filtration media suppliers, electrostatic precipitator component manufacturers, sensor suppliers, and pump/motor providers; midstream involves device assembly, HEPA/ULPA filter integration, performance testing, and regulatory certification (FDA 510(k), CE Mark); downstream demand spans hospital operating rooms, ambulatory surgical centers, veterinary clinics, and dental surgical suites. In 2025, the average selling price is approximately US\$10,000 per unit (weighted average across device types), global sales volume is about 26,000 units, and gross margins generally range from 35% to 55%, driven by filtration technology costs, FDA clearance requirements, and state legislative mandates.

This report studies the global Surgical Smoke Exposure Monitoring Devices production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Surgical Smoke Exposure Monitoring Devices 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 Surgical Smoke Exposure Monitoring Devices that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Surgical Smoke Exposure Monitoring Devices total production and demand, 2021-2032, (K Units)

Global Surgical Smoke Exposure Monitoring Devices total production value, 2021-2032, (USD Million)

Global Surgical Smoke Exposure Monitoring Devices production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Surgical Smoke Exposure Monitoring Devices consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Surgical Smoke Exposure Monitoring Devices domestic production, consumption, key domestic manufacturers and share

Global Surgical Smoke Exposure Monitoring Devices production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Surgical Smoke Exposure Monitoring Devices production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Surgical Smoke Exposure Monitoring Devices production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Surgical Smoke Exposure Monitoring Devices 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 Alesi Surgical Ltd., Olympus Corporation, Buffalo Filter, CONMED Corporation, Medtronic plc, Stryker Corporation, Johnson & Johnson (Ethicon), Karl Storz SE & Co. KG, Anhui Youtaik Medical Technology Co., Ltd., 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 Surgical Smoke Exposure Monitoring Devices 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 Surgical Smoke Exposure Monitoring Devices Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Surgical Smoke Exposure Monitoring Devices Market, Segmentation by Type:

Cart-Mounted

Portable / Tabletop

In-Line / Bedside

Global Surgical Smoke Exposure Monitoring Devices Market, Segmentation by Noise

Level:

Standard (> 55 dB)

Quiet (

Ultra-Quiet (

Global Surgical Smoke Exposure Monitoring Devices Market, Segmentation by Price Tier:

Economy (

Standard (US\$5,000-15,000)

Premium (> US\$15,000)

Global Surgical Smoke Exposure Monitoring Devices Market, Segmentation by Application:

Hospital Operating Room

Ambulatory Surgical Center (ASC)

Veterinary Clinic

Dental Clinic

Companies Profiled:

Alesi Surgical Ltd.

Olympus Corporation

Buffalo Filter

CONMED Corporation

Medtronic plc

Stryker Corporation

Johnson & Johnson (Ethicon)

Karl Storz SE & Co. KG

Anhui Youtaik Medical Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Surgical Smoke Exposure Monitoring Devices market?
2. What is the demand of the global Surgical Smoke Exposure Monitoring Devices market?
3. What is the year over year growth of the global Surgical Smoke Exposure Monitoring Devices market?
4. What is the production and production value of the global Surgical Smoke Exposure Monitoring Devices market?
5. Who are the key producers in the global Surgical Smoke Exposure Monitoring Devices market?
6. What are the growth factors driving the market demand?

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