

Global Bio-aerosol Monitor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bio-aerosol Monitor market size is expected to reach \$ 2125 million by 2032, rising at a market growth of 3.8% CAGR during the forecast period (2026-2032).

In 2025, global Bio-aerosol Monitor production reached approximately 0.107 M Units. Prices range from \$1,200 to over \$100,000. A Bio-aerosol Monitor is an instrument designed to detect, quantify, or collect airborne biological particles such as bacteria, fungal spores, and virus-containing aerosols, using real-time optical methods or sample-based analytical techniques for environmental, pharmaceutical, public health, or biosecurity applications.

Gross Profit Margin Levels

The gross profit margin of bioaerosol monitors exhibits a 'application stratification + compliance premium' characteristic. Pharmaceutical cleanrooms and aseptic filling scenarios have extremely high requirements for continuous monitoring, data integrity, calibration/validation, and audit traceability. This means that real-time feasible particle monitoring (BFPC) and online microbial sampling systems not only sell hardware but also include validation documentation, compliance software, calibration, and maintenance services, thus possessing stronger pricing power. In contrast, general-purpose microbial air samplers (impact/membrane/portable) are closer to the logic of instrument consumables, with more intense competition and gross profit margins more affected by the supply chain and channels. Looking at the overall industry project structure: general-purpose air samplers typically have a gross profit margin of 30%?45%; real-time fluorescence/intelligent classification monitoring (BFPC/UV-LIF) is mostly between 40%?60%; while system-level solutions with CBRN early warning + sampling links, due to small batch sizes, high reliability, and integration requirements,

can further increase their gross profit margins (but also face longer delivery cycles and project acceptance risks). The adoption trend of 'real-time biofluorescence particle monitoring' in biopharmaceutical environmental monitoring is also driving an increase in the proportion of high-value models.

Industry Drivers

Industry growth is primarily driven by three combined forces: First, the increasing demand for real-time and continuous environmental monitoring in biopharmaceutical aseptic production is driving companies to shift from 'post-cultivation results' to 'in-process trend control' to reduce deviations and downtime risks, and enhance data traceability and compliance management (BioTrak, MiniCapt, MD8, and other routes are simultaneously benefiting). Second, the normalization of public health and indoor air risk management is promoting the adoption of 'sentinel sampling of airborne pathogens + PCR confirmation' solutions in schools, offices, medical facilities, and transportation environments (e.g., air sampling and monitoring products like AerosolSense). Third, the continued investment by defense/emergency CBRNs in early warning and rapid sampling confirmation links is driving stable iterations of continuous monitoring and alarm equipment (ENVI BioScout, IBAC 2) and high-flow acquisition/concentration systems (C-FLAPS, XMX, SASS, etc.). Meanwhile, the continuous maturation of technologies such as laser-induced fluorescence, single-particle spectral classification, and efficient and mild sampling (while maintaining activity) has enabled the 'monitoring-triggering-sampling-laboratory confirmation' process to become a more replicable standard procedure, further expanding the industry boundaries for scalable deployment.

This report studies the global Bio-aerosol Monitor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bio-aerosol Monitor 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 Bio-aerosol Monitor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bio-aerosol Monitor total production and demand, 2021-2032, (K Units)

Global Bio-aerosol Monitor total production value, 2021-2032, (USD Million)

Global Bio-aerosol Monitor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Bio-aerosol Monitor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Bio-aerosol Monitor domestic production, consumption, key domestic manufacturers and share

Global Bio-aerosol Monitor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Bio-aerosol Monitor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Bio-aerosol Monitor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Bio-aerosol Monitor 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 TSI Incorporated, Plair SA, Droplet Measurement Technologies, Bertin Technologies, Bertin Environics, Teledyne FLIR Defense, FLIR, Aerosol Devices, MBV AG, bioMérieux, 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 Bio-aerosol Monitor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Bio-aerosol Monitor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bio-aerosol Monitor Market, Segmentation by Type:

Filter-Type Monitoring Instrument

Impact-Type Monitoring Instrument

Electrostatic Adsorption-Type Monitoring Instrument

Others

Global Bio-aerosol Monitor Market, Segmentation by Core Functions:

Quantitative Monitoring Instruments

Qualitative Monitoring Instruments

Real-Time Monitoring Instruments

Global Bio-aerosol Monitor Market, Segmentation by Portability:

Portable Monitoring Device

Fixed Monitoring Device

Global Bio-aerosol Monitor Market, Segmentation by Application:

Public Health Sector

Medical and Health Sector

Biopharmaceutical and Food Processing Industry

Others

Companies Profiled:

TSI Incorporated

Plair SA

Droplet Measurement Technologies

Bertin Technologies

Bertin Environics

Teledyne FLIR Defense

FLIR

Aerosol Devices

MBV AG

bioMérieux

Particle Measuring Systems

Sartorius

SKC Inc.

Thermo Fisher Scientific

Azbil BioVigilant

MicronView

ORUM International

Bioscience International

SIBATA Scientific Technology

Key Questions Answered:

1. How big is the global Bio-aerosol Monitor market?
2. What is the demand of the global Bio-aerosol Monitor market?
3. What is the year over year growth of the global Bio-aerosol Monitor market?
4. What is the production and production value of the global Bio-aerosol Monitor market?
5. Who are the key producers in the global Bio-aerosol Monitor market?
6. What are the growth factors driving the market demand?

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