

Global Algae Fluorescence Online Monitor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Algae Fluorescence Online Monitor market size is expected to reach \$ 322 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

The online algal fluorescence monitor is an online water quality monitoring device that uses the fluorescence characteristics of algal pigments to monitor the concentration and activity of algae in water bodies in real time and continuously. Its principle is to use a specific wavelength light source to excite characteristic pigments such as chlorophyll a, phycocyanin, or phycoerythrin, and to invert the changes in algal biomass and community changes in the water body by detecting changes in their fluorescence intensity. This device can operate unattended for long periods online and is widely used in drinking water sources, reservoirs, lakes, rivers, and aquaculture water bodies. It is an important technical means for algal bloom early warning, algal bloom monitoring, and aquatic ecological management. Sales in 2025 were 410,000 units, with an average price of US\$425, total production capacity of 450,000 units, and a gross profit margin of 35%.

With the increasing prevalence of eutrophic water bodies and the growing impact of algal blooms on drinking water safety and aquatic ecosystems, the demand for algal monitoring has shifted from periodic sampling to continuous, real-time, and early warning-enabled online monitoring. Online algal fluorescence monitors can capture changes in fluorescence signals in the early stages of rapid algal proliferation, providing a time window for water source scheduling, chemical dosing control, and emergency response. They are becoming 'front-end sensing nodes' at the intakes of reservoirs, lakes, and water treatment plants. Against this backdrop, the role of such equipment is gradually evolving from an optional monitoring tool to a fundamental component of the water source security system. Its demand is relatively less affected by macroeconomic cycles and exhibits significant long-term certainty.

The application of online algae fluorescence monitoring instruments has expanded from single-source water monitoring to diverse scenarios such as watershed-level monitoring, water plant process linkage, and refined management of aquaculture water bodies. This places higher demands on the stability, anti-interference capabilities, and data availability of the equipment. Downstream users are no longer solely focused on single-point measurement accuracy, but rather on long-term operational consistency, calibration and maintenance costs, and integration capabilities with comprehensive online water quality monitoring platforms. This trend is driving manufacturers to continuously invest in optical stability, algorithm correction, and automatic cleaning and maintenance, shifting market competition from simple equipment sales to systematic solutions encompassing 'equipment + data + services.' This benefits companies with engineering experience and platform capabilities, allowing them to stand out.

This report studies the global Algae Fluorescence Online Monitor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Algae Fluorescence Online Monitor total production and demand, 2021-2032, (K Units)

Global Algae Fluorescence Online Monitor total production value, 2021-2032, (USD Million)

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

Global Algae Fluorescence Online Monitor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Algae Fluorescence Online Monitor domestic production, consumption, key domestic manufacturers and share

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

Global Algae Fluorescence Online Monitor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Algae Fluorescence Online Monitor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Algae Fluorescence Online 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 LDI, Benchmark Measurement Solutions, Royal Eijkelkamp, FlowCam, YSI, BOQU, Shenzhen Water Technologies, PP Systems, PSI, Beijing SDL 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 Algae Fluorescence Online Monitor 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 Algae Fluorescence Online Monitor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Algae Fluorescence Online Monitor Market, Segmentation by Type:

Fixed Online Monitoring System

Buoy Monitoring Platform

Mobile Detection Equipment

Global Algae Fluorescence Online Monitor Market, Segmentation by Function:

Single Algae Monitoring System

Multi-parameter Algae Monitoring System

Intelligent Algae Analysis System

Global Algae Fluorescence Online Monitor Market, Segmentation by Technology:

Spectroscopy

Image Recognition

Laser-induced Fluorescence

Global Algae Fluorescence Online Monitor Market, Segmentation by Application:

Marine Monitoring

Aquaculture Industry

Municipal Water Supply

Industrial Water Management

Others

Companies Profiled:

LDI

Benchmark Measurement Solutions

Royal Eijkelkamp

FlowCam

YSI

BOQU

Shenzhen Water Technologies

PP Systems

PSI

Beijing SDL Technology Co., Ltd.

In-Situ Inc.

Heinz Walz GmbH

Aquation Pty Ltd

Callosum Technologies

Key Questions Answered:

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

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