

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

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## Abstracts

The global Algae 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).

An online algae monitor is a water quality analysis instrument used for continuous, real-time monitoring of algae concentration and trends in water bodies. It typically uses principles based on chlorophyll a fluorescence, phycocyanin/phycoerythrin optical signals, or multi-parameter spectral analysis to quantify algal biomass online. The device generally consists of an underwater sensor probe, a signal processing and calibration unit, and a data transmission and alarm system. It can achieve all-weather automatic monitoring and connect the data to water management platforms or environmental monitoring systems. Online algae monitors are widely used in drinking water sources, reservoirs, lakes, river sections, and aquaculture water bodies, and are key monitoring equipment for algal bloom early warning, water quality risk control, and aquatic ecological management. In 2025, sales reached 410,000 units, with an average price of \$425, total production capacity of 500,000 units, and a gross profit margin of 35%.

The market demand for online algae monitoring instruments is not simply due to the increase in the number of monitoring points, but more so to the upgrading of water environment management models. The shortcomings of traditional manual sampling + laboratory analysis in terms of timeliness and continuity make it difficult to cope with the risk of sudden algal blooms, especially in drinking water sources and large reservoirs where risk tolerance continues to decline. Online monitoring equipment can generate high-frequency, continuous data streams, providing an early warning window for algal outbreaks, gradually upgrading it from a 'scientific research and auxiliary monitoring tool' to a basic risk management device for water and environmental protection departments. This change in positioning supports stable demand in the medium to long term.

Currently, online algae monitoring instruments exhibit clear technological stratification: single chlorophyll a monitoring is more used for trend judgment and cost-sensitive scenarios, while systems incorporating multi-channel fluorescence, algae species differentiation, or linkage with nutrient parameters are more favored by high-standard water sources and regulatory projects. As users demand higher false alarm rates, improved interference resistance (turbidity, organic matter), and long-term stability, high-end products command stronger pricing power. The future market will exhibit a structure of 'wide coverage at the low end and strong regulation at the high end,' with vendor competition focusing on algorithm correction, long-term maintenance capabilities, and system integration levels.

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

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

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

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

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

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

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

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

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

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

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

This report profiles key players in the global Algae 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 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 Online Monitor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Algae Online Monitor Market, Segmentation by Type:

Fixed Online Monitoring System

Buoy Monitoring Platform

Mobile Detection Equipment

Global Algae Online Monitor Market, Segmentation by Function:

Single Algae Monitoring System

Multi-parameter Algae Monitoring System

Intelligent Algae Analysis System

Global Algae Online Monitor Market, Segmentation by Technology:

Spectroscopy

Image Recognition

Laser-induced Fluorescence

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

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