

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

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## Abstracts

The global Algae Online Monitoring System 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 algae monitoring system is a comprehensive solution that involves deploying multi-point monitoring equipment (online algae monitor + multi-parameter water quality sensor) at key sections or water areas. Through fixed stations, buoys, or integrated shore-side cabinets, it continuously collects, automatically transmits, and centrally analyzes algae indicators such as chlorophyll-a and phycocyanin, as well as water quality data such as temperature, turbidity, dissolved oxygen, and pH. The system typically consists of field sensor terminals, power supply and communication modules (mains power/solar power + 4G/5G/BeiDou/wired), data acquisition and edge computing units, a cloud platform, and a large visualization screen. It enables real-time display of algae concentration curves, early warning of exceeding standards, algae bloom risk assessment, and coordinated control with water plant processes, dam scheduling, and aeration/chemical dosing systems. It is one of the core infrastructures for water source protection, lake and river management, refined aquaculture management, and environmental regulatory departments' 'early detection, early warning, and early response' efforts. In 2025, sales volume was 410,000 units, with an average price of \$425, total production capacity of 500,000 units, and a gross profit margin of 35%. From the demand side, online algae monitoring has upgraded from 'buying a few instruments' to 'building a system.' The driving force behind this is no longer just 'checking algae concentration,' but rather overall risk control centered around water safety and aquatic ecosystems. On one hand, there are drinking water sources, reservoirs, regulating lakes, and South-to-North Water Diversion/inter-basin projects. Algal blooms are directly linked to odor complaints, water outages, and emergency chemical treatment costs. Water utilities and river basin management agencies are no

longer satisfied with 'manual sampling + weekly/monthly reports,' but hope to support scheduling and process coordination through 'multi-point monitoring stations + online data + risk indices.' On the other hand, there are lake water environment management, aquatic ecological restoration demonstration projects, and high-value aquaculture water bodies. Under the long-term pressure of policies such as the 'River Chief System,' 'Lake Chief System,' 'Water Ten Measures,' and 'Black and Odorous Water Body Treatment,' algal changes are regarded as 'leading indicators' of eutrophication and cyanobacterial bloom risks. In the feasibility studies and performance evaluations of many projects, 'whether an online algal monitoring system is included' has been written as a mandatory clause or a deduction item. Overall, online algal monitoring systems are no longer 'accessories in scientific research projects,' but rather one of the basic configurations in water source safety, water environment performance evaluation, and smart water/smart fisheries projects. From a supply and business model perspective, competition in this sector has clearly shifted from 'selling sensors and standalone devices' to 'selling systems, services, and closed-loop capabilities.' Individual equipment manufacturers that only offer 'a few probes and a set of software' are easily caught in price wars during bidding processes. Conversely, manufacturers that can package 'algae monitoring + multi-parameter water quality + meteorological/hydrological data + platform algorithms' into watershed water environment monitoring platforms, smart water management platforms, and smart fishery cloud platforms have a better chance of winning overall projects for a watershed, an entire lake area, or a group of aquaculture bases. More importantly, homeowners are no longer satisfied with just 'curves and alarms,' but are asking: 'Can this system guide me on when to increase oxygen in advance, when to reduce load or shut off water in advance, and when to conduct emergency water storage?' Whoever can truly embed algae data into scheduling rules, model predictions, and operation and maintenance SOPs, proving that they can help reduce the number of algal blooms, the number of emergency medications needed, and the number of water outages and fish deaths, will be able to charge long-term fees based on 'system construction + annual operation and maintenance services + data services,' turning what was originally a one-time project revenue into a sustainable digital operation business for the water environment over 5-10 years.

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

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

**Highlights and key features of the study**

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

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

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

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

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

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

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

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Algae Online Monitoring System Market, Segmentation by Type:

Fixed Online Monitoring System

Buoy Monitoring Platform

Mobile Detection Equipment

#### Global Algae Online Monitoring System Market, Segmentation by Function:

Single Algae Monitoring System

Multi-parameter Algae Monitoring System

Intelligent Algae Analysis System

#### Global Algae Online Monitoring System Market, Segmentation by Technology:

Spectroscopy

Image Recognition

Laser-induced Fluorescence

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

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