

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

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## Abstracts

The global Water 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).

Online algae monitoring instruments are specialized water quality instruments used in rivers, lakes, reservoirs, aquaculture ponds, drinking water sources, and other scenarios to continuously and in real-time monitor the concentration and changes of algae in the water. They are typically based on fluorescence optical sensing principles such as chlorophyll-a and phycocyanin, combined with multi-parameter sensors such as temperature, turbidity, and dissolved oxygen. Data such as algae density and algal bloom risk index collected through fixed monitoring stations or buoys/platforms are automatically uploaded to a monitoring platform. Compared to traditional manual sampling and laboratory analysis, it can achieve long-term unattended monitoring, timely identify the risk of cyanobacterial blooms or eutrophication trends, and provide early warning basis and decision support for water source protection, drinking water plant pretreatment regulation, aquaculture management and environmental supervision. 2025 sales volume: 410,000 units, average price: \$425, total production capacity: 500,000 units, gross profit margin: 35%.

From the demand side, online algae monitoring instruments have gone from being a 'project bonus' to a 'standard tool' in many water environment projects. On the one hand, frequent eutrophication and cyanobacterial blooms in lakes, reservoirs, water sources, and aquaculture areas have made the practice of 'measuring only routine water quality indicators without considering algae' increasingly unacceptable.

Waterworks, water utilities, and river basin management agencies have begun to explicitly require the deployment of online algae monitoring points as a preliminary signal for raw water safety and emergency chemical dosing/water intake cessation decisions. On the other hand, aquaculture is evolving towards high-density, factory-

style, and refined management. The quantity and structure of algae directly affect water color, dissolved oxygen, and the health of fish and shrimp. High-value species farms are more willing to pay for risk control measures that ensure 'no pond overhauling, no oxygen deficiency, and fewer pond floods.' Furthermore, the continued implementation of systems such as the 'River Chief System,' 'Lake Chief System,' and 'Drinking Water Source Protection' has led to the convergence of environmental monitoring, river basin management, water source operation and maintenance, and aquaculture, transforming online algae monitoring from a 'niche research instrument' into a 'standard configuration for water and environmental protection.' Overall demand is showing a slow but steady upward trend.

From a supply and business model perspective, competition in this niche market is no longer just about 'whose probe is more sensitive,' but rather about overall solution capabilities and after-sales service capabilities. On one end are high-end multi-parameter water quality monitoring manufacturers, focusing on high-stability sensors, automatic cleaning devices, and remote operation and maintenance platforms, targeting water utilities, river basin monitoring networks, and large aquaculture bases. On the other end are regional system integrators, who package algae online monitoring instruments as a sub-module of 'water environment station/buoy system,' along with solar power, communication, and cloud platforms, for governments and industrial parks. It's worth noting that as equipment prices become more transparent and hardware profit margins are compressed, the space for 'one-time equipment sales' is shrinking, leading to models such as 'equipment + annual platform service fee' and 'per-site + data service package fee.' Whoever can truly integrate algae monitoring data into scheduling decisions (such as water plant process linkage, gate scheduling, aeration/dosing control, aquaculture oxygenation and feeding optimization), allowing owners to see tangible benefits like 'fewer accidents and fewer accidental dosings,' will have a greater chance of transforming a hardware transaction of tens of thousands of yuan per site into a multi-year, continuously paid digital water environment service.

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

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

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

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

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

Global Water Algae Online Monitor production by region & country, production, value,

CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

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

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

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

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

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Water Algae Online Monitor Market, Segmentation by Type:

Fixed Online Monitoring System

Buoy Monitoring Platform

Mobile Detection Equipment

#### Global Water Algae Online Monitor Market, Segmentation by Function:

Single Algae Monitoring System

Multi-parameter Algae Monitoring System

Intelligent Algae Analysis System

#### Global Water Algae Online Monitor Market, Segmentation by Technology:

Spectroscopy

Image Recognition

Laser-induced Fluorescence

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

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