

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

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## Abstracts

The global Algae Online Analyzer market size is expected to reach \$ 272 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

An online algae analyzer is an automated instrument used for water environment monitoring. It is primarily used to detect key indicators in real time, such as algae concentration, chlorophyll-a, and phycocyanin, to assess algae growth status and the risk of eutrophication. This equipment typically employs technologies such as fluorescence and optical absorption to achieve continuous online monitoring and data output. It is widely used in water intakes of waterworks, lakes and reservoirs, aquaculture areas, and wastewater treatment plants for cyanobacteria early warning, water quality management, and algal bloom risk control. 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%.

From the demand side, the market growth of online algae analyzers is mainly driven by the increasing eutrophication of water bodies and the rising risk of cyanobacterial blooms. With the continuous increase in urbanization and agricultural non-point source pollution, the water quality of lakes, reservoirs, and rivers fluctuates frequently, and the impact of algae outbreaks on drinking water safety and the ecological environment has significantly increased, prompting water authorities and environmental regulatory agencies to strengthen investment in 'online early warning at water intakes' and routine monitoring. Compared with traditional manual sampling and testing, online analyzers have the advantages of strong real-time performance, continuous monitoring, and rapid early warning response. They have gradually shifted from scientific research and pilot applications to rigid configurations in water plants and watershed management projects, especially in the Yangtze River Basin, Taihu Lake Basin, and large reservoir water

source management projects, where their penetration rate is accelerating.

From a supply and industry trend perspective, online algae analyzers are upgrading from single-detection devices to 'multi-parameter water quality monitoring platforms,' with competition shifting from hardware manufacturing to data reliability and system integration capabilities. Low-end products primarily monitor single parameters like chlorophyll a or phycocyanin, suffering from insufficient anti-interference capabilities, frequent calibration, and long-term drift. High-end products emphasize multi-band optical algorithms, turbidity interference-resistant designs, automatic cleaning and maintenance modules, and data platform capabilities that integrate with water quality monitoring stations and SCADA systems. Future industry premiums will focus on long-term stable operation (reducing maintenance costs), algorithm recognition accuracy (distinguishing cyanobacteria from other algae), and the integration with early warning models to form a closed-loop solution of 'monitoring + prediction + treatment recommendations.' Therefore, comprehensive water environment manufacturers with system delivery and operation and maintenance capabilities are more likely to gain an advantage in medium to large-scale projects.

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

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

Highlights and key features of the study

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

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

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

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

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

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

Global Algae Online Analyzer production by Type, production, value, CAGR,

2021-2032, (USD Million) & (K Units)

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Algae Online Analyzer Market, Segmentation by Type:

Fixed Online Monitoring System

Buoy Monitoring Platform

Mobile Detection Equipment

#### Global Algae Online Analyzer Market, Segmentation by Function:

Single Algae Monitoring System

Multi-parameter Algae Monitoring System

Intelligent Algae Analysis System

#### Global Algae Online Analyzer Market, Segmentation by Technology:

Spectroscopy

Image Recognition

Laser-induced Fluorescence

#### Global Algae Online Analyzer 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 Analyzer market?

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

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