

Global Algae Online Monitor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Algae Online Monitor market size was valued at US\$ 191 million in 2025 and is forecast to a readjusted size of US\$ 322 million by 2032 with a CAGR of 7.8% during review period.

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 is a detailed and comprehensive analysis for global Algae Online Monitor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Algae Online Monitor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Algae Online Monitor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Algae Online Monitor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Algae Online Monitor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Algae Online Monitor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Algae Online Monitor market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Algae Online Monitor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Fixed Online Monitoring System

Buoy Monitoring Platform

Mobile Detection Equipment

Market segment by Function

Single Algae Monitoring System

Multi-parameter Algae Monitoring System

Intelligent Algae Analysis System

Market segment by Technology

Spectroscopy

Image Recognition

Laser-induced Fluorescence

Market segment by Application

Marine Monitoring

Aquaculture Industry

Municipal Water Supply

Industrial Water Management

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Algae Online Monitor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Algae Online Monitor, with price, sales quantity, revenue, and global market share of Algae Online Monitor from 2021 to 2026.

Chapter 3, the Algae Online Monitor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Algae Online Monitor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Algae Online Monitor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Algae Online Monitor.

Chapter 14 and 15, to describe Algae Online Monitor sales channel, distributors, customers, research findings and conclusion.

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