

Global Algae Fluorescence 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 Fluorescence 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.

The online algal fluorescence monitor is an online water quality monitoring device that uses the fluorescence characteristics of algal pigments to monitor the concentration and activity of algae in water bodies in real time and continuously. Its principle is to use a specific wavelength light source to excite characteristic pigments such as chlorophyll a, phycocyanin, or phycoerythrin, and to invert the changes in algal biomass and community changes in the water body by detecting changes in their fluorescence intensity. This device can operate unattended for long periods online and is widely used in drinking water sources, reservoirs, lakes, rivers, and aquaculture water bodies. It is an important technical means for algal bloom early warning, algal bloom monitoring, and aquatic ecological management. Sales in 2025 were 410,000 units, with an average price of US\$425, total production capacity of 450,000 units, and a gross profit margin of 35%.

With the increasing prevalence of eutrophic water bodies and the growing impact of algal blooms on drinking water safety and aquatic ecosystems, the demand for algal monitoring has shifted from periodic sampling to continuous, real-time, and early warning-enabled online monitoring. Online algal fluorescence monitors can capture changes in fluorescence signals in the early stages of rapid algal proliferation, providing a time window for water source scheduling, chemical dosing control, and emergency response. They are becoming 'front-end sensing nodes' at the intakes of reservoirs, lakes, and water treatment plants. Against this backdrop, the role of such equipment is

gradually evolving from an optional monitoring tool to a fundamental component of the water source security system. Its demand is relatively less affected by macroeconomic cycles and exhibits significant long-term certainty.

The application of online algae fluorescence monitoring instruments has expanded from single-source water monitoring to diverse scenarios such as watershed-level monitoring, water plant process linkage, and refined management of aquaculture water bodies. This places higher demands on the stability, anti-interference capabilities, and data availability of the equipment. Downstream users are no longer solely focused on single-point measurement accuracy, but rather on long-term operational consistency, calibration and maintenance costs, and integration capabilities with comprehensive online water quality monitoring platforms. This trend is driving manufacturers to continuously invest in optical stability, algorithm correction, and automatic cleaning and maintenance, shifting market competition from simple equipment sales to systematic solutions encompassing 'equipment + data + services.' This benefits companies with engineering experience and platform capabilities, allowing them to stand out.

This report is a detailed and comprehensive analysis for global Algae Fluorescence 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 Fluorescence Online Monitor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Algae Fluorescence 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 Fluorescence 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 Fluorescence 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 Fluorescence 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 Fluorescence 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 Fluorescence 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 Fluorescence Online Monitor product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Algae Fluorescence 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 Fluorescence 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 Fluorescence Online Monitor.

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

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