

Global Eddy Correlation System Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G0FBA54D2CC8EN.html>

Date: June 2026

Pages: 104

Price: US\$ 4,480.00 (Single User License)

ID: G0FBA54D2CC8EN

Abstracts

The global Eddy Correlation System market size is expected to reach \$ 297 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

The Eddy Correlation System (ECS) is a scientific instrument used to measure gas exchange fluxes between ecosystems and the atmosphere. It calculates carbon dioxide, water vapor, and energy fluxes in real time by analyzing high-frequency fluctuations in vertical wind speed and gas concentration. This technology is crucial for studying the carbon cycle, greenhouse gas emissions, and energy exchange in ecosystems. The equipment is widely used in climate change research, carbon flux monitoring, ecosystem observation, and agricultural and forestry research, playing a key role in global carbon monitoring networks. The upstream of the industry chain includes suppliers of ultrasonic anemometers, gas analyzers, data loggers, and sensors; the midstream consists of system integrators responsible for measurement system integration, data acquisition modules, and analysis software development; downstream applications include research institutions, environmental monitoring networks, agricultural research centers, forestry departments, and climate research organizations. Global ECS production in 2025 is estimated at approximately 4,000 units, with an average market price of approximately US\$45,000 per unit. The gross profit margin of major companies in the industry is estimated at 38%-55%. Global production capacity in 2025 is estimated at approximately 5,333 units.

This report studies the global Eddy Correlation System production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Eddy Correlation System total production and demand, 2021-2032, (Units)

Global Eddy Correlation System total production value, 2021-2032, (USD Million)

Global Eddy Correlation System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Eddy Correlation System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Eddy Correlation System domestic production, consumption, key domestic manufacturers and share

Global Eddy Correlation System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Eddy Correlation System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Eddy Correlation System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Eddy Correlation 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 LI-COR, Unisense, Campbell Scientific, Los Gatos Research, Picarro, Healthy Photon (Ningbo) Technology Co., Ltd., CLIMATEC, Inc., 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 Eddy Correlation System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Eddy Correlation System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Eddy Correlation System Market, Segmentation by Type:

CO₂/H₂O Eddy Covariance System

CH₄ Eddy Covariance System

Multi-Gas Eddy Flux System

Global Eddy Correlation System Market, Segmentation by System Configuration:

Open-Path Eddy Covariance System

Closed-Path Eddy Covariance System

Global Eddy Correlation System Market, Segmentation by Sampling Frequency:

Low-frequency Systems: 5-10Hz

Standard Frequency Systems: 10-20Hz

High-frequency Systems: Above 20Hz

Global Eddy Correlation System Market, Segmentation by Application:

Agricultural Water Use Efficiency

Forest Carbon Sink Assessment

Wetland Methane Emission Studies

Urban Climate Observation

Others

Companies Profiled:

LI-COR

Unisense

Campbell Scientific

Los Gatos Research

Picarro

Healthy Photon (Ningbo) Technology Co., Ltd.

CLIMATEC, Inc.

Key Questions Answered:

1. How big is the global Eddy Correlation System market?

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

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