

Global Plant Photosynthesis Meter Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G8C0285ED673EN.html>

Date: June 2026

Pages: 104

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

ID: G8C0285ED673EN

Abstracts

The global Plant Photosynthesis Meter market size is expected to reach \$ 348 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

A plant photosynthesis meter is a scientific instrument used to measure key physiological parameters of plant photosynthesis, including net photosynthetic rate, stomatal conductance, transpiration rate, and intercellular carbon dioxide concentration. This equipment typically employs infrared gas analysis (IRGA) technology to monitor gas exchange between plant leaves and the environment in real time. These devices are widely used in plant physiology research, agricultural science, crop breeding, ecological monitoring, and climate change research. Portable devices can be used for field measurements, while high-end models are usually equipped with environmental control systems and data analysis capabilities. The upstream of the industry chain includes suppliers of infrared gas sensors, optical components, microcontrollers, gas pumps, and precision mechanical parts; the midstream consists of instrument manufacturers responsible for system integration, sensor calibration, software development, and overall assembly; downstream applications include research institutes, agricultural universities, plant research institutions, forestry departments, and agricultural technology companies. Global production of plant photosynthesis measuring instruments is projected to reach approximately 25,000 units in 2025, with an average market price of approximately US\$8,400 per unit. The gross profit margin for major companies in the industry is estimated at 40%-58%. Global production capacity is projected to reach approximately 33,300 units in 2025.

The Plant Photosynthesis Meter market is expanding steadily due to increasing demand for precision agriculture and plant science research. Governments, universities, and agricultural institutions are investing more in crop productivity improvement, climate

resilience, and sustainable farming practices. Photosynthesis measurement plays a critical role in evaluating plant growth efficiency, stress response, and breeding performance. The integration of advanced sensor technologies, portable designs, and data analysis software is improving measurement accuracy and usability in both laboratory and field conditions. In addition, the rise of smart agriculture and digital farming systems is creating new opportunities for integrating photosynthesis monitoring into broader crop management platforms. However, the market remains relatively niche, with demand concentrated in research and high-end agricultural applications. Despite limited mass-market adoption, long-term growth is supported by global focus on food security and environmental sustainability.

This report studies the global Plant Photosynthesis Meter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Plant Photosynthesis Meter 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 Plant Photosynthesis Meter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Plant Photosynthesis Meter total production and demand, 2021-2032, (K Units)

Global Plant Photosynthesis Meter total production value, 2021-2032, (USD Million)

Global Plant Photosynthesis Meter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Plant Photosynthesis Meter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Plant Photosynthesis Meter domestic production, consumption, key domestic manufacturers and share

Global Plant Photosynthesis Meter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Plant Photosynthesis Meter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Plant Photosynthesis Meter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Plant Photosynthesis Meter 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 PP Systems, Heinz Walz, CID Bio-Science, Labtron, LI-COR, Fison Instruments Ltd, Zhejiang Top Cloud-agri Technology Co., Ltd., Shandong Youyunpu Photoelectric Technology Co., Ltd., Shandong Laiende Intelligent 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 Plant Photosynthesis Meter 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 Plant Photosynthesis Meter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Plant Photosynthesis Meter Market, Segmentation by Type:

Bench Mount

Handheld

Global Plant Photosynthesis Meter Market, Segmentation by Measurement Principle:

Gas Exchange Photosynthesis System

Chlorophyll Fluorescence Meter

Others

Global Plant Photosynthesis Meter Market, Segmentation by Measurement Scale:

Blade Level

Cover Level

Regional Level

Global Plant Photosynthesis Meter Market, Segmentation by Application:

University Laboratory

Business Research Institute

Others

Companies Profiled:

PP Systems

Heinz Walz

CID Bio-Science

Labtron

LI-COR

Fison Instruments Ltd

Zhejiang Top Cloud-agri Technology Co., Ltd.

Shandong Youyunpu Photoelectric Technology Co., Ltd.

Shandong Laiende Intelligent Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Plant Photosynthesis Meter market?
2. What is the demand of the global Plant Photosynthesis Meter market?
3. What is the year over year growth of the global Plant Photosynthesis Meter market?
4. What is the production and production value of the global Plant Photosynthesis Meter market?
5. Who are the key producers in the global Plant Photosynthesis Meter market?
6. What are the growth factors driving the market demand?

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