

Global Smart Agricultural Lighting System 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 Smart Agricultural Lighting System market size was valued at US\$ 4816 million in 2025 and is forecast to a readjusted size of US\$ 13191 million by 2032 with a CAGR of 15.4% during review period.

A Smart Agricultural Lighting System is an automated lighting control system used in modern agricultural production environments. It integrates LED grow lights, sensor technologies, the Internet of Things (IoT), and intelligent control algorithms to automatically adjust lighting parameters?such as light intensity, spectral composition, and irradiation duration?based on crop growth stages, light requirements, and environmental conditions (e.g., light intensity, temperature, and humidity). The system enhances photosynthetic efficiency, improves crop yield and quality, and enables energy-efficient and precision agriculture management. In 2025, global Smart Agricultural Lighting System production reached approximately 2.53 M units, with an average global market price of around US\$ 1,850 per unit. Annual production capacity is 3.28 M Units. Gross Profit Margin: 34.8%. The upstream segment of the Smart Agricultural Lighting System industry consists of LED chips, drivers, controllers, sensors, aluminum heat sinks, optical lenses, communication modules, and software platforms. Midstream manufacturers integrate these components into intelligent lighting systems with spectrum control, dimming functions, and environmental monitoring capabilities. Downstream demand mainly comes from commercial greenhouses, vertical farms, indoor plant factories, research institutions, and high-value crop cultivation facilities, where optimized lighting conditions are essential for maximizing yield and crop quality. Smart Agricultural Lighting Systems are evolving from standalone lighting equipment into integrated crop management platforms. The combination of dynamic

spectrum control, IoT connectivity, and AI-based cultivation strategies is improving energy efficiency and crop productivity simultaneously. As controlled-environment agriculture expands globally and food security concerns increase, demand for intelligent lighting solutions is expected to grow steadily, particularly in regions with limited arable land or challenging climatic conditions.

This report is a detailed and comprehensive analysis for global Smart Agricultural Lighting System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Control Method 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 Smart Agricultural Lighting System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Agricultural Lighting System 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 Smart Agricultural Lighting System market size and forecasts, by Control Method and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Agricultural Lighting System 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 Smart Agricultural Lighting System

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 Smart Agricultural Lighting System 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 Signify N.V., Fluence Bioengineering, Inc., Gavita International B.V., Heliospectra AB, Valoya Oy, LumiGrow, Inc., Illumitex, Inc., Sollum Technologies Inc., Hortilux Schröder B.V., California LightWorks, Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Smart Agricultural Lighting System market is split by Control Method and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Control Method, 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 Control Method

Manual Control System

Timer-Based Control System

Sensor Feedback Control System

AI Adaptive Control System

Market segment by Spectral Tunability

Fixed Spectrum System

Tunable Spectrum System

Full-Spectrum Intelligent System

Market segment by PPFD Level / Light Intensity

Low PPFD System ($<200 \mu\text{mol/m}^2/\text{s}$)

Medium PPFD System ($200\text{--}500 \mu\text{mol/m}^2/\text{s}$)

High PPFD System ($>500 \mu\text{mol/m}^2/\text{s}$)

Market segment by Application

Greenhouse

Vertical Farming

Indoor Plant Factory

Others

Major players covered

Signify N.V.

Fluence Bioengineering, Inc.

Gavita International B.V.

Heliospectra AB

Valoya Oy

LumiGrow, Inc.

Illumitex, Inc.

Sollum Technologies Inc.

Hortilux Schröder B.V.

California LightWorks, Inc.

SANlight GmbH

Ushio Inc.

Iwasaki Electric Co., Ltd.

Kessil Lighting

Telos Lighting Ltd.

Sananbio Technology Co., Ltd.

MLS Co., Ltd.

Shenzhen Meijiu Lighting Co., Ltd.

Cidly Co., Ltd.

Shenzhen Sunproudelectronic Tech Co., Ltd.

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 Smart Agricultural Lighting System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Smart Agricultural Lighting System, with price, sales quantity, revenue, and global market share of Smart Agricultural Lighting System from 2021 to 2026.

Chapter 3, the Smart Agricultural Lighting System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Smart Agricultural Lighting System 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 Control Method and by Application, with sales market share and growth rate by Control Method, 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 Smart Agricultural Lighting System market forecast, by regions, by Control Method, 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 Smart Agricultural Lighting System.

Chapter 14 and 15, to describe Smart Agricultural Lighting System sales channel, distributors, customers, research findings and conclusion.

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