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Global LED Lighting for Machine Vision Supply, Demand and Key Producers, 2024-2030

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Abstracts

The global LED Lighting for Machine Vision market size is expected to reach $ million by 2030, rising at a market growth of % CAGR during the forecast period (2024-2030).

LED lighting is often specified by voltage but the brightness is actually determined by the current through the LEDs and not the supply voltage. This means that accurate control of light intensity requires good current control. LEDs are remarkably reliable devices but the light output reduces as the device ages and, in shorter timescale, the increase in temperature after the light is switched on will change the brightness. Switching the light on only when an image is being acquired by pulsing the light minimises the amount of heat produced and significantly improves LED lifetime. Strobing an LED light also brings the major benefit of allowing the light to be ‘overdriven’ to intensities much higher than the manufacturer’s light rating.

This report studies the global LED Lighting for Machine Vision production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for LED Lighting for Machine Vision, and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2023 as the base year. This report explores demand trends and competition, as well as details the characteristics of LED Lighting for Machine Vision that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global LED Lighting for Machine Vision total production and demand, 2019-2030, (K Units)

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Global LED Lighting for Machine Vision total production value, 2019-2030, (USD Million)

Global LED Lighting for Machine Vision production by region & country, production, value, CAGR, 2019-2030, (USD Million) & (K Units)

Global LED Lighting for Machine Vision consumption by region & country, CAGR, 2019-2030 & (K Units)

U.S. VS China: LED Lighting for Machine Vision domestic production, consumption, key domestic manufacturers and share

Global LED Lighting for Machine Vision production by manufacturer, production, price, value and market share 2019-2024, (USD Million) & (K Units)

Global LED Lighting for Machine Vision production by Type, production, value, CAGR, 2019-2030, (USD Million) & (K Units)

Global LED Lighting for Machine Vision production by Application production, value, CAGR, 2019-2030, (USD Million) & (K Units).

This reports profiles key players in the global LED Lighting for Machine Vision 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 Metaphase Technologies, Advanced Illumination, CCS America, ProPhotonix Limited, Smart Vision Lights, TPL Vision, Soda Vision, Keyence and Opto Engineering, 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 LED Lighting for Machine Vision 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 2019-2030 by

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year with 2023 as the base year, 2024 as the estimate year, and 2025-2030 as the forecast year.

Global LED Lighting for Machine Vision Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global LED Lighting for Machine Vision Market, Segmentation by Type

- Spot Lights
- Back Lights
- Coaxial Lights
- Diffuse Lights
- Line Lights
- Others

Global LED Lighting for Machine Vision Market, Segmentation by Application

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- Automotive
- Consumer Electronics
- Food & Beverage
- Pharmaceuticals
- Logistics
- Other

Companies Profiled:

- Metaphase Technologies
- Advanced Illumination
- CCS America
- ProPhotonix Limited
- Smart Vision Lights
- TPL Vision
- Soda Vision
- Keyence
- Opto Engineering
- Lambda Photometrics
- Stemmer Imaging
- Wavelength Opto-Electronic

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National Instruments

Key Questions Answered

1. How big is the global LED Lighting for Machine Vision market?

2. What is the demand of the global LED Lighting for Machine Vision market?

3. What is the year over year growth of the global LED Lighting for Machine Vision market?

4. What is the production and production value of the global LED Lighting for Machine Vision market?

5. Who are the key producers in the global LED Lighting for Machine Vision market?

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