

Global Aircraft Detection Obstacle Lighting System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aircraft Detection Obstacle Lighting System market size is expected to reach \$ 915 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

By 2025, 4,810 aircraft detection obstacle lighting systems will be installed globally, with an average price of approximately \$112,000 per system and an industry gross profit margin of approximately 28%-34%. This system integrates aircraft radar/ADS-B passive detection modules with high-intensity aviation obstruction light control units, designed to turn off or dim red warning lights when no aircraft are approaching, balancing airspace safety with nighttime light pollution control. Typical device specifications include a coverage radius of 3-5 km, a response time of less than 1 second, redundant communication interfaces (LTE/LoRa/fiber), and an IP66 weatherproof rating. Upstream raw materials primarily include high-power LED modules, radar detection devices (such as millimeter-wave radar antennas), microcontrollers and FPGA modules, communication modules (LTE/LoRa/fiber optic interfaces), corrosion-resistant aluminum alloy housings, and transparent cover materials. Material costs account for approximately 52% of the total system cost. Fixed towers, wind farm pylons, or bridge structures are typically equipped with an ADLS system to control the aviation warning lights on top. HENSOLDT has a mature product line for wind turbine and airport obstruction light detection systems in Europe, with an annual installation volume exceeding 1,000 units.

This report studies the global Aircraft Detection Obstacle Lighting System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aircraft Detection Obstacle Lighting 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 Aircraft

Detection Obstacle Lighting System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aircraft Detection Obstacle Lighting System total production and demand, 2021-2032, (Units)

Global Aircraft Detection Obstacle Lighting System total production value, 2021-2032, (USD Million)

Global Aircraft Detection Obstacle Lighting System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Aircraft Detection Obstacle Lighting System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Aircraft Detection Obstacle Lighting System domestic production, consumption, key domestic manufacturers and share

Global Aircraft Detection Obstacle Lighting System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Aircraft Detection Obstacle Lighting System production by Detection Range, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Aircraft Detection Obstacle Lighting System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Aircraft Detection Obstacle Lighting 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 HENSOLDT, DWT, Detect Inc., Terma, Senture GmbH, Lanthan Safe Sky, Orga, MidAmerican Energy, Light:Guard, Laufer Wind, 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 Aircraft Detection Obstacle Lighting System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Detection Range, 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 Aircraft Detection Obstacle Lighting System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aircraft Detection Obstacle Lighting System Market, Segmentation by Detection Range:

3 Nautical Miles

18 Nautical Miles

Global Aircraft Detection Obstacle Lighting System Market, Segmentation by Switch-Off Time:

100%

98%

97%

Global Aircraft Detection Obstacle Lighting System Market, Segmentation by Installation Scenario:

Onshore Wind Farm

Offshore Wind Farm

Global Aircraft Detection Obstacle Lighting System Market, Segmentation by Application:

Wind Farms

High-Voltage Transmission Lines

Communication Towers

Others

Companies Profiled:

HENSOLDT

DWT

Detect Inc.

Terma

Senture GmbH

Lanthan Safe Sky

Orga

MidAmerican Energy

Light:Guard

Laufer Wind

Vestas

Sabik Offshore

Key Questions Answered:

1. How big is the global Aircraft Detection Obstacle Lighting System market?
2. What is the demand of the global Aircraft Detection Obstacle Lighting System market?
3. What is the year over year growth of the global Aircraft Detection Obstacle Lighting System market?
4. What is the production and production value of the global Aircraft Detection Obstacle Lighting System market?
5. Who are the key producers in the global Aircraft Detection Obstacle Lighting System market?
6. What are the growth factors driving the market demand?

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