

Global Visibility and Present Weather Sensors Market Growth 2026-2032

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Abstracts

The global Visibility and Present Weather Sensors market size is predicted to grow from US\$ 374 million in 2025 to US\$ 582 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 2032.

In 2025, global sales of visibility and present weather sensors reached 850,000 units, with an average selling price of \$450 per unit. Visibility and present weather sensors are sensing devices used to measure environmental parameters in the atmosphere, such as visibility, temperature, humidity, wind speed, and air pressure. They are widely used in traffic management, aerospace, meteorological monitoring, and smart city construction. These devices use laser, infrared, or optical sensing technologies to monitor the concentration of particulate matter, smoke, or haze in the atmosphere in real time, providing visibility data and combining it with meteorological data to obtain accurate real-time weather conditions. Visibility and current weather sensors are commonly used in transportation hubs such as airports, ports, highways, and railways to help achieve safe navigation, vehicle operation, and flight scheduling. Upstream raw materials mainly include optical sensors, lasers, circuit boards, metal casings, and other precision electronic components; downstream suppliers include transportation authorities, airlines, meteorological departments, logistics companies, and smart device manufacturers. Global total production capacity is approximately 1 million units per year, with an average industry gross margin of approximately 35%. With the increasing demand for intelligent transportation systems, autonomous driving technology, and air pollution monitoring, the market demand for high-precision, intelligent weather sensors continues to grow. Products with remote data transmission, cloud analysis, and real-time monitoring capabilities will be the future development direction.

The visibility and present weather sensor market is experiencing steady growth,

primarily driven by rising demand from intelligent transportation systems, aviation safety, environmental monitoring, and meteorological services. With increasing global focus on climate change and air pollution, and the rapid development of autonomous driving and intelligent transportation, the demand for visibility and weather monitoring technologies continues to climb. Particularly at transportation hubs such as airports, ports, railways, and highways, the reliance on visibility and weather monitoring equipment is growing, making the safe operation of flights, trains, and vehicles a critical factor.

Furthermore, the increasing demand for real-time weather data from meteorological bureaus and environmental agencies is further promoting the widespread application of high-precision weather sensors. In the short term, market growth is influenced by regional infrastructure investment and transportation safety standards, while in the medium to long term, it will benefit from the rapid development of digital meteorological monitoring, cloud computing, and big data analytics technologies.

Within the industry, traditional meteorological equipment suppliers and emerging intelligent sensor companies face fierce competition. In the future, intelligent, precise, and highly integrated weather sensor products will become the market mainstream, with products possessing cloud data transmission, remote monitoring, and intelligent decision support capabilities further increasing their market share.

LP Information, Inc. (LPI) ' newest research report, the "Visibility and Present Weather Sensors Industry Forecast" looks at past sales and reviews total world Visibility and Present Weather Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Visibility and Present Weather Sensors sales for 2026 through 2032. With Visibility and Present Weather Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Visibility and Present Weather Sensors industry.

This Insight Report provides a comprehensive analysis of the global Visibility and Present Weather Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Visibility and Present Weather Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Visibility and Present Weather Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Visibility and Present Weather Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Visibility and Present Weather Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Visibility and Present Weather Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

LiDAR

Image Recognition

Others

Segmentation by Function:

Single Visibility Measurement Type

Weather Phenomenon Identification Type

Others

Segmentation by Measurement Range:

Measurement Range: 5m - 2km

Measurement Range: >10km

Others

Segmentation by Application:

Airport Runway

Port Channel

Road Transport

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Senseca UK

Vaisala

Lufft

CAMPBELL SCIENTIFIC, INC.

DEGREANE HORIZON

Darrera

RIKA

WANXIANG

Tianwei

Dianjiang Group Limited

Ames

NiuBoL

FENG TU

JUHENGBOLIAN

NANJING HAOHAI MARINE TECHNOLOGY CO.,LTD

Key Questions Addressed in this Report

What is the 10-year outlook for the global Visibility and Present Weather Sensors market?

What factors are driving Visibility and Present Weather Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Visibility and Present Weather Sensors market opportunities vary by end market size?

How does Visibility and Present Weather Sensors break out by Type, by Application?

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