

Global Visibility and Present Weather Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Visibility and Present Weather Sensors market size is expected to reach \$ 599 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

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.

This report studies the global Visibility and Present Weather Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Visibility and Present Weather Sensors 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 Visibility and Present Weather Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Visibility and Present Weather Sensors total production and demand, 2021-2032, (K Units)

Global Visibility and Present Weather Sensors total production value, 2021-2032, (USD Million)

Global Visibility and Present Weather Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Visibility and Present Weather Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Visibility and Present Weather Sensors domestic production, consumption, key domestic manufacturers and share

Global Visibility and Present Weather Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Visibility and Present Weather Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Visibility and Present Weather Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Visibility and Present Weather Sensors 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 Senseca UK, Vaisala, Luftt, CAMPBELL SCIENTIFIC, INC., DEGREANE HORIZON, Darrera, RIKA, WANXIANG, Tianwei, Dianjiang Group Limited, 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 Visibility and Present Weather Sensors 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 Visibility and Present Weather Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Visibility and Present Weather Sensors Market, Segmentation by Type:

LiDAR

Image Recognition

Others

Global Visibility and Present Weather Sensors Market, Segmentation by Function:

Single Visibility Measurement Type

Weather Phenomenon Identification Type

Others

Global Visibility and Present Weather Sensors Market, Segmentation by Measurement Range:

Measurement Range: 5m - 2km

Measurement Range: >10km

Others

Global Visibility and Present Weather Sensors Market, Segmentation by Application:

Airport Runway

Port Channel

Road Transport

Others

Companies Profiled:

Senseca UK

Vaisala

Lufft

CAMPBELL SCIENTIFIC, INC.

DEGREANE HORIZON

Darrera

RIKA

WANXIANG

Tianwei

Dianjiang Group Limited

Ames

NiuBoL

FENGTU

JUHENGBOLIAN

NANJING HAOHAI MARINE TECHNOLOGY CO.,LTD

Key Questions Answered:

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

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