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Global Visibility and Present Weather Sensors 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 Visibility and Present Weather Sensors market size was valued at US$ 394 million in 2025 and is forecast to a readjusted size of US$ 599 million by 2032 with a CAGR of 6.2% during review period.

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.

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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 is a detailed and comprehensive analysis for global Visibility and Present Weather Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Visibility and Present Weather Sensors market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Visibility and Present Weather Sensors market size and forecasts by region and

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country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Visibility and Present Weather Sensors market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Visibility and Present Weather Sensors 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 Visibility and Present Weather Sensors

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 Visibility and Present Weather Sensors 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 Senseca UK, Vaisala, Lufft, 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.

Market Segmentation

Visibility and Present Weather Sensors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

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Market segment by Type

LiDAR

Image Recognition

Others

Market segment by Function

Single Visibility Measurement Type

Weather Phenomenon Identification Type

Others

Market segment by Measurement Range

Measurement Range: 5m - 2km

Measurement Range: >10km

Others

Market segment by Application

Airport Runway

Port Channel

Road Transport

Others

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Major players covered

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

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)

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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 Visibility and Present Weather Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Visibility and Present Weather Sensors, with price, sales quantity, revenue, and global market share of Visibility and Present Weather Sensors from 2021 to 2026.

Chapter 3, the Visibility and Present Weather Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Visibility and Present Weather Sensors 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 Type and by Application, with sales market share and growth rate by Type, 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 Visibility and Present Weather Sensors market forecast, by regions, by Type, 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 Visibility and Present Weather Sensors.

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Chapter 14 and 15, to describe Visibility and Present Weather Sensors sales channel, distributors, customers, research findings and conclusion.

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Contents

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3 COMPETITIVE ENVIRONMENT: VISIBILITY AND PRESENT WEATHER SENSORS BY MANUFACTURER

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4 CONSUMPTION ANALYSIS BY REGION

5 MARKET SEGMENT BY TYPE

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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