

Global Road Condition Monitoring System 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 Road Condition Monitoring System market size was valued at US\$ 6174 million in 2025 and is forecast to a readjusted size of US\$ 10877 million by 2032 with a CAGR of 8.4% during review period.

In 2025, global sales of road condition monitoring systems reached 125,000 units, with an average selling price of US\$48,000 per unit. Road condition monitoring systems are intelligent transportation infrastructure devices integrating sensor acquisition units, data transmission modules, and analysis platforms. They are used to monitor key parameters such as road surface temperature, humidity, icing conditions, road surface smoothness, traffic flow, and structural health in real time, providing data support for highway maintenance decisions and traffic safety management. The core components of the system include embedded pressure and temperature sensors, radar or video recognition equipment, edge computing terminals, and a cloud management platform. Upstream raw materials mainly consist of electronic components, MEMS sensor chips, industrial-grade communication modules, and steel structural housings. Downstream, the system is mainly supplied to highway management units, municipal transportation departments, and smart city integrators, deployed through engineering integration. The industry's total production capacity is approximately 150,000 units per year, with an average gross profit margin of approximately 35%. Future prospects lie in the advancement of vehicle-road cooperative and autonomous driving infrastructure construction, with systems upgrading towards multi-source fusion and AI predictive analysis. Demand and business opportunities are concentrated in the areas of smart highway transformation, extreme climate monitoring, and the construction of digital maintenance platforms.

This report is a detailed and comprehensive analysis for global Road Condition Monitoring System 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 Road Condition Monitoring System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Road Condition Monitoring System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Road Condition Monitoring System 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 Road Condition Monitoring System 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 Road Condition Monitoring System
- 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 Road Condition Monitoring System 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 Enviko, Proof Engineers, BCL, NIRA Dynamics, HBM, WDM Limited, Boschung, ZF Friedrichshafen AG, Ricoh, Kistler, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Road Condition Monitoring System 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.

Market segment by Type

Traffic Flow Monitoring

Traffic Incident Monitoring

Road Damage Monitoring

Others

Market segment by Sensor Technology

Radar/Microwave Detectors

Video Image Detection

Laser/Infrared Sensors

Others

Market segment by Platform Architecture

Infrastructure Management System

Intelligent Operation and Maintenance Platform

Others

Market segment by Application

City Roads

Highways

Others

Major players covered

Enviko

Proof Engineers

BCL

NIRA Dynamics

HBM

WDM Limited

Boschung

ZF Friedrichshafen AG

Ricoh

Kistler

Cognecto

Darrera

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)

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 Road Condition Monitoring System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Road Condition Monitoring System, with price, sales quantity, revenue, and global market share of Road Condition Monitoring System from 2021 to 2026.

Chapter 3, the Road Condition Monitoring System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Road Condition Monitoring System 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 Road Condition Monitoring System 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 Road Condition Monitoring System.

Chapter 14 and 15, to describe Road Condition Monitoring System sales channel, distributors, customers, research findings and conclusion.

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