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Global Infrared Dust PM2.5 Sensor Market Growth 2026-2032

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Abstracts

The global Infrared Dust PM2.5 Sensor market size is predicted to grow from US$ 561 million in 2025 to US$ 856 million in 2032; it is expected to grow at a CAGR of 6.3% from 2026 to 2032.

Infrared dust PM2.5 sensor is a sensor used to detect the concentration of PM2.5 particles in the air. It is based on the principle of light scattering and includes infrared light-emitting diodes (LEDs), light receivers, etc. It has the characteristics of high precision, real-time, stability, and ease of use. It is widely used in air monitoring, air purification, fresh air ventilation and other fields.

United States market for Infrared Dust PM2.5 Sensor is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Infrared Dust PM2.5 Sensor is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Infrared Dust PM2.5 Sensor is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Infrared Dust PM2.5 Sensor players cover Amphenol Advanced Sensors, Kodenshi, Sharp Corporation, NIDS, Zhengzhou Winsen Electronics Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?Infrared Dust PM2.5 Sensor Industry Forecast? looks at past sales and reviews total world Infrared Dust PM2.5

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Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Infrared Dust PM2.5 Sensor sales for 2026 through 2032. With Infrared Dust PM2.5 Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Infrared Dust PM2.5 Sensor industry.

This Insight Report provides a comprehensive analysis of the global Infrared Dust PM2.5 Sensor 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 Infrared Dust PM2.5 Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Infrared Dust PM2.5 Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Infrared Dust PM2.5 Sensor 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 Infrared Dust PM2.5 Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Infrared Dust PM2.5 Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

PWM Output

UART Output

Segmentation by Application:

Air Monitoring

Air Purification

Fresh Air Ventilation

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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

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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.

Amphenol Advanced Sensors

Kodenshi

Sharp Corporation

NIDS

Zhengzhou Winsen Electronics Technology

Cubic Sensor and Instrument

Audiowell

Guangzhou Luftmy Intelligent Technology

MFrontier

Henan Fosen Electronics Technology

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Shenzhen Hoto Intelligent Control Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Infrared Dust PM2.5 Sensor market?

What factors are driving Infrared Dust PM2.5 Sensor market growth, globally and by region?

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

How do Infrared Dust PM2.5 Sensor market opportunities vary by end market size?

How does Infrared Dust PM2.5 Sensor break out by Type, by Application?

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