

Global Infrared Temperature Smoke Detector Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Infrared Temperature Smoke Detector market size was valued at US\$ 181 million in 2024 and is forecast to a readjusted size of USD 266 million by 2031 with a CAGR of 5.3% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A reflective infrared beam smoke detector houses both the infrared light emitter and the photodiode receiver in one unit and relies on a retroreflector mounted opposite it to bounce the beam back to the sensor; any obscuration of this reflected infrared light by smoke particles reduces the received signal below a set threshold, triggering an alarm. Standard models require manual alignment during installation, whereas motorised variants include miniature servos to continuously adjust beam alignment and compensate for building movement or dust accumulation. Product families range from single-beam detectors—covering a straight line of sight up to 100 m—to multi-beam systems that transmit multiple infrared paths in rotation or parallel, increasing fault tolerance and area coverage in large or irregular spaces. Linear infrared detectors extend the concept by projecting a light signal along tubing or light guides to sense smoke over distances up to 50 m, ideal for cavernous or complex industrial layouts.

IR smoke detectors are widely deployed in high-bay warehouses, aircraft hangars, sports arenas, tunnels, airport terminals, and exhibition halls—locations where high ceilings or expansive floorplans make point-type detectors impractical or cost-prohibitive. These units integrate with fire-alarm control panels (FACPs), HVAC

shutdown protocols, and emergency-lighting systems to initiate coordinated responses such as fan isolation, door release, and escape-path illumination. Looking ahead, the industry is embracing edge-computing and machine-learning algorithms for adaptive obscuration thresholds, multi-wavelength (e.g., UV/IR) discrimination to minimize false alarms, and predictive-maintenance analytics that forecast alignment drift or component degradation before failures occur.

This report is a detailed and comprehensive analysis for global Infrared Temperature Smoke Detector 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 Infrared Temperature Smoke Detector market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Infrared Temperature Smoke Detector market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Infrared Temperature Smoke Detector market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Infrared Temperature Smoke Detector market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Infrared Temperature Smoke Detector
- 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 Infrared Temperature Smoke Detector 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 Honeywell (System Sensor), Halma PLC, Johnson Controls (Simplex), Securiton AG, Schneider Electric, Panasonic, Eaton, Hochiki, Siemens, Potter Electric Signal Company, etc.

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

Market Segmentation

Infrared Temperature Smoke Detector market is split by Type and by Application. For the period 2020-2031, 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

Wired Infrared Smoke Detector

Battery Powered Infrared Smoke Detector

Market segment by Application

Residential

Commercial

Industrial

Major players covered

Honeywell (System Sensor)

Halma PLC

Johnson Controls (Simplex)

Securiton AG

Schneider Electric

Panasonic

Eaton

Hochiki

Siemens

Potter Electric Signal Company

Fireguard

Inim Electronics

Olympia Electronics SA

Nohmi Bosai Limited

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 Infrared Temperature Smoke Detector product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Infrared Temperature Smoke Detector, with price, sales quantity, revenue, and global market share of Infrared Temperature Smoke Detector from 2020 to 2025.

Chapter 3, the Infrared Temperature Smoke Detector competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Infrared Temperature Smoke Detector breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Infrared Temperature Smoke Detector market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Infrared Temperature Smoke Detector.

Chapter 14 and 15, to describe Infrared Temperature Smoke Detector sales channel, distributors, customers, research findings and conclusion.

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