

# Global Forest Fire Detectors 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 Forest Fire Detectors market size was valued at US\$ 331 million in 2025 and is forecast to a readjusted size of US\$ 565 million by 2032 with a CAGR of 8.0% during review period.

Forest fire detectors are specialized sensing devices designed to identify early signs of wildfires by monitoring environmental indicators such as smoke, heat, flame signatures, gas composition, or infrared radiation. Depending on the technology?optical smoke sensors, thermal cameras, infrared/UV flame detectors, or gas sensors detecting combustion gases like CO?these systems can rapidly detect ignition events even in remote or harsh outdoor environments. Often integrated with wireless communication, AI-based image analysis, and centralized monitoring platforms, forest fire detectors enable early warning, faster emergency response, and reduced damage to ecosystems, property, and lives.

In 2024, global forest fire detectors production reached approximately 436.66 k units, with an average global market price of around US\$ 671 per unit. And global forest fire detectors production capacity reached approximately 540 k units. The average gross margin in this industry reached 46.57%.

The upstream segment consists of sensing components, communication modules, and rugged outdoor hardware. Key inputs include infrared/UV flame sensors, smoke/particulate optical sensors, thermal imaging modules, AI-enabled camera chips, LoRa/Satellite communication modules, and solar-powered energy units. Weather-resistant enclosures, mounting systems, and edge-computing processors are also essential to ensure stable detection in harsh forest environments. These components

determine detector sensitivity, false-alarm rates, detection range, and reliability. Representative upstream suppliers include Hamamatsu Photonics (optical sensors), Bosch Sensortec (environmental sensing components), and Quectel (wireless communication modules).

Downstream applications include forestry departments, wildfire-management agencies, national parks, and private operators responsible for early fire detection. Forest fire detectors are deployed in mountain forests, nature reserves, plantation forests, utility corridors, and wildland-urban interfaces. They support rapid fire identification through real-time alerts, video/thermal analytics, and integration with command platforms. Representative downstream integrators and solution providers include Dryad Networks, AXIS Communications, and DJI Enterprise, which supply sensor networks, AI video analytics, and early-warning systems to government authorities, environmental agencies, and forest-management companies.

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

Global Forest Fire Detectors 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 Forest Fire Detectors 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 Forest Fire Detectors 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 Forest Fire Detectors

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 Forest Fire Detectors 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 Bosch, Teledyne FLIR, SmokeD, Milesight, EchoStar Mobile, SenseNet, Raymetrics, Intecon, Avantes, Dali Technology, etc.

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

## Market Segmentation

Forest Fire Detectors 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

Smoke Camera

Thermal Imaging Camera

Carbon Dioxide Sensor

Others

## Market segment by Detecting Parameter

Smoke Detectors

Flame Detectors

Heat Detectors

Others

## Market segment by Application

Forest

Garden

Orchard

Others

## Major players covered

Bosch

Teledyne FLIR

SmokeD

Milesight

EchoStar Mobile

SenseNet

Raymetrics

Intecon

Avantes

Dali Technology

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 Forest Fire Detectors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Forest Fire Detectors, with price, sales quantity, revenue, and global market share of Forest Fire Detectors from 2021 to 2026.

Chapter 3, the Forest Fire Detectors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Forest Fire Detectors 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 Forest Fire Detectors 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 Forest Fire Detectors.

Chapter 14 and 15, to describe Forest Fire Detectors sales channel, distributors, customers, research findings and conclusion.

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