

# Global Forest Fire Detectors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Forest Fire Detectors market size is expected to reach \$ 565 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

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 studies the global Forest Fire Detectors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Forest Fire Detectors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Forest Fire Detectors that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Forest Fire Detectors total production and demand, 2021-2032, (K Units)

Global Forest Fire Detectors total production value, 2021-2032, (USD Million)

Global Forest Fire Detectors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Forest Fire Detectors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Forest Fire Detectors domestic production, consumption, key domestic manufacturers and share

Global Forest Fire Detectors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Forest Fire Detectors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Forest Fire Detectors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Forest Fire Detectors market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Forest Fire Detectors market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Forest Fire Detectors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Forest Fire Detectors Market, Segmentation by Type:

Smoke Camera

Thermal Imaging Camera

Carbon Dioxide Sensor

Others

Global Forest Fire Detectors Market, Segmentation by Detecting Parameter:

Smoke Detectors

Flame Detectors

Heat Detectors

Others

**Global Forest Fire Detectors Market, Segmentation by Application:**

Forest

Garden

Orchard

Others

**Companies Profiled:**

Bosch

Teledyne FLIR

SmokeD

Milesight

EchoStar Mobile

SenseNet

Raymetrics

Intecon

Avantes

## Dali Technology

### **Key Questions Answered:**

1. How big is the global Forest Fire Detectors market?
2. What is the demand of the global Forest Fire Detectors market?
3. What is the year over year growth of the global Forest Fire Detectors market?
4. What is the production and production value of the global Forest Fire Detectors market?
5. Who are the key producers in the global Forest Fire Detectors market?
6. What are the growth factors driving the market demand?

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